Empa Activities 2016
Appendix

Search Content

Print

Empa Activities 2016

Awards

Advanced Analytical Technologies	**Sambalova Olga, Bleiner Davide, Kroll Alexandra, Borgschulte Andreas** 2nd Poster Prize SAOG 2016 in Fribourg. SAOG – Swiss Working Group for Surface and Interface Science
Advanced Fibers	**Dorst Johanna, Vandenbossche Marianne, Fricke Katja, Hegemann Dirk** Best Poster Award. "Stabilization of Amino-Functionalized Plasma Polymer Nanofilms through Vertical Gradients." Symposium Future in Plasma Science II, Greifswald, DE
	Wong Michel Young Scientist Award 2016, Finalist. Stability Study of additives-polyol dispersion for flame retardant PU foams. International Workshop Dispersion Analysis and Materials Testing, Berlin, DE
Advanced Fibers / Particles-Biology Interactions	**Gaan Sabyasachi, Salmeia Khalifah, Rao Jingyi, Hirsch Cordula** Empa Innovation Prize 2016. Sustainable flame retardant development: Polyurethane foams with superior fire performance characteristics (SUSPUR)
Advanced Materials Processing	**Blum Muriel** SVMT prize for master thesis entitled: Optimization of Functional Properties of Barium Titanate Thin Films. EPF Lausanne
Air Pollution / Environmental Technology	**Eyer Simon** ACP Award for Atmospheric Research for outstanding achievements during PhD thesis. Atmospheric Chemistry and Physics Commission (ACP) of the Swiss Academy of Sciences (sc|nat+)
	Spenger Benjamin Poster Price in Analytical Science. Swiss Chemical Society Fall meeting
	Zink Katrin Best Poster Award. 10th International Conference on Air Quality
Applied Wood Materials	**Hausmann Michael, Siqueira Gilberto, Kokkinis Dimitri, Libanori Rafael, Zimmermann Tanja, Studart André** PHD Symposiums 1st place, student's choice poster presentation award
	Merk Vivian, Berg John, Krywka Christina, Burgert Ingo Follow-up poster prize (Inorganic and Coordination Chemistry) of Swiss Chemical Society Fall Meeting 2016. Swiss Chemical Society
Biointerfaces	**Faccio Greta** Sophie Vanhulle Award: . Lecture: Bacterial oxidative enzymes for functional material surfaces. 8th European Meeting on Oxizymes, Wageningen, NL
	Jankowska Dagmara Travel Award. World Biomaterials Congress in Montreal, CN
	Qin Xiao-Hua, Torgersen, S., Ovsianikov, A., Stampfl, J., Liska, J. Best Poster Presentation Award. Nature Conference on Tissue Engineering and Regenerative Medicine
	Qin Xiao-Hua, Wang X., Rottmar M., Maniura-Weber K. Best Poster Award for the Contribution titled Two-photon micropatterning of cell-interactive hydrogels. The Committee and the Organizers of the Biointerfaces International 2017
	Weishaupt Ramon, Siqueira G., Schubert M., Zimmermann T., Maniura-Weber K., Faccio G. Best Poster Award for the Contribution titled. Fluorescent nanocellulose based biosensor for the Analysis of heavy metal Contents in human serum. The Committee and the Organizers of the Biointerfaces International 2016
Building Energy Materials and Components	**Stojanovic Ana** Zurich Start-Award for the best presentation and most innovative idea, Zurich
Concrete / Construction Chemistry	**Bernard Ellina** 1st place Student Presentation Awards – Effect of magnesium on the stability of C-S-H. The 4th International Workshop on Mechanisms and Modelling of Waste/Cement Interactions, Murten
	Lothenbach Barbara Distinguished Senior Researcher
	Lothenbach Barbara, Vollpracht Anya, Snellings Ruben Outstanding Paper 2016 Award – Materials and Structures. Board of Editors of Materials and Structures
	Nedyalkova Latina 3rd place Student Poster Awards - Uptake of S, Se and I in AFm-phases. The 4th International Workshop on Mechanisms and Modelling of Waste/Cement Interactions, Murten
Functional Polymers	**Yeesong Ko** 2nd Poster Prize. Swiss Chemical Society
High Performance Ceramics	**Clemens Frank** IAAM Scientist Medal. IAAM
	Geiger Andreas Hochschulpreis 2016. Fachhochschule Münster, DE

High Performance Ceramics	**Graule Thomas** DFG Mercator Professor Fellowship. Deutsche Forschungsgemeinschaft
Mechanical Integrity of Energy Systems	**Schillai Kilian** Best Poster Award 2016. CCMX (Competence Centre for Materials Science and Technology)
Mechanics of Materials and Nanostructures	**Philippe Laetitia, Mieszala Maxime** Best poster price. CCMX (Competence Centre for Materials Science and Technology)
Multiscale Studies in Building Physics	**Manickathan Lento** Young researcher Best Research Award. National University of Singapore, SG
	Zhou Xiaohai Best Paper Award CESBP. Technische Universität Dresden, DE and Ernst & Sohn
Nanoscale Materials Science	**Ernst Karl-Heinz** Functionalized Nano-Material Science Award. (For outstanding achievement in nanomaterial science). ICON2 – 2016
	Mairena Anaïs CMSZH Award. The Graduate School of Chemical and Molecular Sciences Zurich and Labortechnik Büchi AG
nanotech@surfaces	**Shinde Prashant, P. Ruffieux, S. Wang, J. Liu, C. A. Pignedoli, O. Gröning, R. Fasel, D. Passerone** 1st Poster Prize 2016. SAOG – Swiss Working Group for Surface and Interface Science
Particles-Biology Interactions	**Aengenheister Leonie** 3rd prize at the for her talk on nanoparticle translocation studies across the human placental barrier. Empa PhD Symposium 2016
	Buerki-Thurnherr Tina, Melanie Kucki, Pius Manser, Carina Muoth, Leonie Aengenheister Best Poster Award 9th CLINAM. CLINAM (European Foundation for Clinical Nanomedicine)
	Keevend Kerda, M. Stiefel, A. Neels, S. Bertazzo 2nd Best Presentation Award. Empa PhD Symposium 2016
	Roesslein Matthias Award of the Materials Measurement Laboratory (MML) Accolades Program. Materials Measurement Laboratory (MML) Accolades Program of National Institute of Standards and Technology (NIST)
Protection and Physiology	**Dabrowska Agnieszka, G. M. Rotaru, F. Spano, Ch. Affolter, G. Fortunato, S. Lehmann, S. Derler, N.D. Spencer, R. M. Rossi** Duncan Dowson Prize. Prof. Duncan Dowson
	Fortunato Giuseppino, Géraldine Guex, René Rossi, Sacha Sidjanski Challenge Debiopharm-Inartis Prize. Debiopharm
	Lundgre-Kownacki Karin, Martinez N, Johansson B, Psikuta A, Annaheim S, Kuklane k Best Student Paper Award (2nd place). 11th International Meeting on Thermal Manikin and Modelling (11i3m) Suzhou, CN
	Quandt Brit Maike Graduate Student Paper Competition. The Fiber Society Fall Meeting. The Fiber Society
	Quandt Brit Maike, Marisa Pfister, Luciano F. Boesel Théophile Legrand Innovation Award Textile serving the Human 2016, 5th place. Union of textile industries
Reliability Science and Technology	**Grotevent Matthias, Yakunin Sergii, Dirin Dmitry, Brönnimann Rolf, Borin Barin Gabriela, Kovalenko Maksym, Shorubalko Ivan** ETH Medal 2016 for Outstanding Master's Theses: Highly Sensitive Quantum Dot-Graphene Photodetectors. ETH Zurich
	Valzania Lorenzo, Zolliker Peter, Hack Erwin 1st Place Oral Presentation Award. Empa PhD Symposium
Road Engineering / Sealing Components	**Bressi Sara** Price VSS Foundation for her thesis. VSS (Research and standardization in the field of road and transportation)
	Hailesilassie Biruk Price VSS Foundation for his thesis. VSS (Research and standardization in the field of road and transportation)
	Raab Christiane, Ingrid Camargo, Manfred Partl Best Paper Award for Paper "Ageing Behavior of Energy Reduced Pavements". 8th Mairepav-8 Conference 27– 29 July 2016, Singapore. 8th Mairepav-8 Conference
	Zaumanis Martins Global Road Achievement Award in Research category. 2nd IRF Asia Regional Congress & Exhibition", Kuala Lumpur
Structural Engineering	**Annen Philipp** Auszeichnung FEB. Strengthening of reinforced concrete beams with iron-based shape memory alloy (Fe-SMA) ribbed bars embedded in shotcrete layer. SIA, FEB Fachgruppe für die Erhaltung von Bauwerken
	Dauti Dorjan, Weber Benedikt, Dal Pont S. 1st Place Poster Presentation Award. "Spalling of concrete at high temperature." Empa PhD Students' Symposium 2016
	Ghafoori Elyas Highest Honors Medal for the Best PhD Thesis 2015, ETH Zurich

Technology and Society	**Fuchs Florian** 2nd prize Envirionmental Informatics Students Award. EnviroInfo Technical Committee of German Informatics Society
	Reinhard Jürgen, Lorenz Hilty Best Paper Award at the 30th International EnviroInfo Conference Berlin. International EnviroInfo Program Committee, Best Paper Award Committee
	Turner David, Williams Ian, Kemp Simon ISWA Publication Award 2016. International Solid Waste Association (ISWA)
Thin Films and Photovoltaics	**Feurer Thomas, Fan Fu, Johannes Löckinger, Shiro Nishiwaki, Stefan Haass, Benjamin Bissig, Antonio Abate, Shaik M. Zakeeruddin, Michael Grätzel, Stephan Buecheler, Ayodhya N. Tiwari** Best poster award. Low bandgap Cu(In,Ga)Se2 solar cells for tandem devices. European Materials Research Society, Lille, FR, 2016
	Guntlin Christoph Best Presentation Award. International Society of Electrochemistry, EMRS conference
	Kovalenko Maksym Werner Prize for 2016. Swiss Chemical Society
	Reinhard Patrick ETH Medal for outstanding doctoral thesis 2016, ETH Zurich

Empa Activities 2016

PhD Theses

Acoustics/Noise Control	**Churchill Claire** Direct and Flanking Transmission in Combined Heavyweight and Lightweight Structures Supervisor: Gibbs Barry Co-Supervisor: Eggenschwiler Kurt University of Liverpool, Acoustics Research Unit, UK ◆
	Dorodnytsin Vladimir Waves in cellular solids with entrained fluid Supervisor: Curtin William Co-Supervisor: Van Damme Bart EPF Lausanne, Mechanical engineering ○
	Rietdijk Frederik Auralization of Aircraft Noise Supervisor: Kropp Wolfgang Co-Supervisor: Heutschi Kurt Chalmers, Applied Acoustics, Gothenburg, SE ◆
	Zellmann Christoph Entwicklung eines semi-empirischen Modells zur Beschreibung der Schallemission ziviler Großflugzeuge in Abhängigkeit vom Flugzustand Supervisor: Paschereit Christian-Oliver Co-Supervisor: Wunderli Jean Marc Technische Universität, Berlin, Institut für Strömungsmechanik und technische Akustik, Berlin, DE ◆
Advanced Analytical Technologies	**Arbelo Peña Yunieski** Morpho chemical Surface Analysis using a Plasma driven short Wavelength Photon Source Supervisor: Bleiner Davide Co-Supervisor: Bleiner Davide Universität Zürich, Chemical and Molecular Sciences Zurich ○
	Barbato Francesco Phase Contrast Imaging of weak Shocks in Fusion Experiments Supervisor: Bleiner Davide Co-Supervisor: Bleiner Davide Universität Zürich, Chemical and Molecular Sciences Zurich ◆
	Diefenbacher Pascal Sources, Emissions, and FAte of Persistent Organic Pollutants in Urban Areas Supervisor: Hungerbühler Konrad Co-Supervisor: Buchmann Brigitte ETH Zürich, Environmental Sciences ○
	Durdina Lukas Particulate Matter and Gas Phase Emission Measurement of Aircraft Engine Exhaust Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zürich, Institute of Environmental Engineering ○
	He Xu Nanomaterials in landfill leachate: characteristics, fate and control Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zürich, Institute of Environmental Engineering ◆
	Kuo Yu-Ying Analysis and control of co-emitted organic pollutants and nanoparticles Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zürich, Institute of Environmental Engineering ○
	Sachinidou Panagiota Nanoparticle Filtration and electret filter media Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zürich, Institute of Environmental Engineering ◆
	Sambalova Olga Laser membrane photoemission on heterogeneous solar water splitting Supervisor: Borgschulte Andreas Co-Supervisor: Borgschulte Andreas Universität Zürich, Department of Chemistry ◆

Advanced Analytical Technologies	**Schinkel Lena** New analytical methods for emerging chlorinated paraffins and transformation products Supervisor: McNeill Christopher Co-Supervisor: Heeb Norbert ETH Zürich, Institute of Biogeochemistry and Pollutant Dynamics (IBP) ◆
	Terreni Jasmin Mimicking the natural CO2 fixation and reduction reactions for Renewable Energy Storage Supervisor: Borgschulte Andreas Co-Supervisor: Borgschulte Andreas Universität Zürich, Department of Chemistry ◆
Advanced Fibers	**Kandhadai Shreyas** Polymer Surface Forces across Supercritical CO2 Supervisor: Heuberger Manfred Co-Supervisor: Heuberger Manfred ETH Zürich, Dept. of Materials ◆
	Liang Shuyu Evaluating Gasphase Flame Inhibition Chemistry of Organo Phosphorus Compounds Supervisor: Grützmacher Hansjörg Co-Supervisor: Gaan Sabyasachi ETH Zürich, Department of Chemistry ◆
	Liu Xiu Smoke and toxicity Suppression of PU foams Supervisor: Hao Jian-Wei Co-Supervisor: Gaan Sabyasachi Beijing Institute of Technology, School of Materials Science and Engineering, Beijing, CN ○
	Zachariah Zita Molecular ordering phenomena in highly overlapping electrical double layers Supervisor: Heuberger Manfred Co-Supervisor: Heuberger Manfred ETH Zürich, LSST – Dept. of Materials ◆
Advanced Materials Processing	**Berger Luisa** Coupling effects in artificial nano-dot lattices prepared by focused electron beam and atomic layer deposition (CANDLE) Supervisor: Utke Ivo Co-Supervisor: Hoffmann Patrik
	Griffiths Seth Additive manufacturing of precipitation hardening Ni superalloys Supervisor: Hoffmann Patrik Co-Supervisor: Leinenbach Christian EPF Lausanne, Laboratory of Photonic Materials and Characterisation ◆
	Hammoud Hussein Sintering of Cerium Oxide based materials by Microwave heating Supervisor: Valdivieso François Co-Supervisor: Vaucher Sébastien Ecoles Nationale des Mines de St Etiennes, Laboratoire Georges Friedel CNRS UMR 5307, St-Etienne, FR ○
	Infante Daniel Combined refractive and diffractive microdevices Supervisor: Herzig Hanspeter Co-Supervisor: Hoffmann Patrik EPF Lausanne, Optics and Photonics Technology Laboratory OPT ○
	Kallip Kaspar Metal matrix nano composite materials Supervisor: Kollo Lauri Co-Supervisor: Leparoux Marc Tallinn University of Technology, Faculty of Mechanical Engineering Department of Materials Engineering, Tallinn, EE ◆
	Kenel Christoph Development of Oxide Dispersion Strengthened Titanium Aluminides for Additive Manufacturing Supervisor: Wegener Konrad Co-Supervisor: Leinenbach Christian ETH Zürich, Institute of Machine Tools and Manufacturing ○
	Le Dantec Marie Light initiated drying and melting of silicon powder Supervisor: Hoffmann Patrik Co-Supervisor: Leparoux/Vaucher Marc/Sébastien EPF Lausanne, Photonic Materials and Characterization LPMAT ◆
	Li Xiaoshuang Fabrication of metal-diamond composites by selective laser melting and their characterization Supervisor: Wegener Konrad Co-Supervisor: Leinenbach Christian ETH Zürich, Institute of Machine Tools and Manufacturing ◆

Advanced Materials Processing	**Rowthu Sriharitha** Self-Replenishing, Wear-Resistant and Anti-Sticking Surfaces Based on Liquid Impregnation of Microstructured Mesoporous Alumina Matrices Supervisor: Hoffmann Patrik Co-Supervisor: Hoffmann Patrik EPF Lausanne, Photonic Materials and Characterization LPMAT ○
	Saeidi Fatemeh Characterization of Grey Cast Iron-Steel Tribo-system under Starved Lubrication Conditions: Failure, Failure Detection and Laser Surface Texturing Supervisor: Hoffmann Patrik Co-Supervisor: Wasmer Kilian EPF Lausanne, Photonic Materials and Characterization LPMAT ○
	Vahdati Seyedpayam Microjet laser cutting of Sapphire Supervisor: Hoffmann Patrik Co-Supervisor: Kuzminykh Yury EPF Lausanne, Photonic Materials and Characterization LPMAT ◆
Air Pollution/Environmental Technology	**Boleti Eirini** Statistical analysis of long-term air quality data in Switzerland Supervisor: Takahama Satoshi Co-Supervisor: Hueglin Christoph EPF Lausanne, School of Architecture, Civil and Environmental Engineering ◆
	Ibraim Erkan N2O from the Swiss midlands: regional sources and hot spots Supervisor: Six Johan Co-Supervisor: Mohn Joachim ETH Zürich, Dept. of Environmental Systems Science ◆
	Kantnerova Kristyna Clumped isotopes as a novel tracer for the N2O cycle Supervisor: Bernasconi Stefano Co-Supervisor: Mohn Joachim ETH Zürich, Geological Institute ◆
	Mussetti Gianluca Urban Climate and Air Quality modelling Supervisor: Carmeliet Jan Co-Supervisor: Brunner Dominik ETH Zürich, Building Physics ◆
	Schönenberger Fabian Measurement-based verification of regional emissions of halogenated greenhouse gases Supervisor: Peter Thomas Co-Supervisor: Reimann Stefan ETH Zürich, Institute for Atmospheric and Climate Science ◆
Applied Wood Materials	**Bachtiar Eric Valentin** Material characterization of Wood, adhesives and coating of cultural heritage under various climatic conditions Supervisor: Burgert Ingo Co-Supervisor: Burgert Ingo ETH Zürich, Institut für Baustoffe IfB ◆
	Bösiger Peter Development of a smart bio composite wound dressing Supervisor: Schwarze Francis Co-Supervisor: Fortunato Giuseppino
	Casdorff Kirstin Wood surface modification and characterization by AFM Supervisor: Burgert Ingo Co-Supervisor: Burgert Ingo ETH Zürich, Institut für Baustoffe ◆
	Civardi Chiara Assessing the Effectiveness and Environmental Risk of Nanocopper- based Wood Preservatives Supervisor: Burgert Ingo Co-Supervisor: Schwarze Francis ETH Zürich, Institut für Baustoffe ○
	Grönquist Philippe Smart, innovative manufacturing of curved wooden components for architecture with complex geometry Supervisor: Burgert Ingo Co-Supervisor: Rüggeberg Markus ETH Zürich, Institut für Baustoffe ◆
	Hausmann Michael Hierarchically structured cellulose-based Composites Supervisor: Studart André Co-Supervisor: De Freitas Siqueira Gilberto ETH Zürich, Institut für Baustoffe ◆

Applied Wood Materials	**Keplinger Tobias** Cell wall modification and characterization Supervisor: Burgert Ingo Co-Supervisor: Burgert Ingo ETH Zürich, Institut für Baustoffe ○
	Kostic Sanja Development of a novel adhesion system between wood timber and concrete Supervisor: Burgert Ingo Co-Supervisor: Cabane Etienne ETH Zürich, Institut für Baustoffe ◆
	Lämmlein Sarah Microstructure-property relationship in varnished wood of string instruments Supervisor: Burgert Ingo Co-Supervisor: Schwarze Francis ETH Zürich, Institut für Baustoffe ◆
	Merk Vivian Chemical modification of spruce and beech wood Supervisor: Burgert Ingo Co-Supervisor: Burgert Ingo ETH Zürich, Institut für Baustoffe ○
	Oluyinka Olaniran Samuel Mechanical characterization of modified woods Supervisor: Burgert Ingo Co-Supervisor: Rüggeberg Markus ETH Zürich, Institut für Baustoffe ◆
	Orsolini Paola Elaboration of functional materials using bio-based waste resources as building blocks Supervisor: Niederberger Markus Co-Supervisor: Zimmermann Tanja ETH Zürich, Professur Multifunktionsmaterial ◆
	Özparpucu Merve Mechanical and structural characterization of modified poplar wood Supervisor: Burgert Ingo Co-Supervisor: Burgert Ingo ETH Zürich, Institut für Baustoffe ◆
	Ribera Regal Javier Biological control of copper tolerant fungi Supervisor: Schwarze Francis Co-Supervisor: Schwarze Francis Universität Freiburg im Breisgau, DE, Fakultät für Umwelt und natürliche Ressourcen, Freiburg, DE ◆
	Segemehl Jana Simone Cell wall modification of bio-engineered wood Supervisor: Burgert Ingo Co-Supervisor: Burgert Ingo ETH Zürich, Institut für Baustoffe ◆
	Vailati Chiara Convertible wood structures for architecture Supervisor: Burgert Ingo Co-Supervisor: Rüggeberg Markus ETH Zürich, Institut für Baustoffe ◆
	Vidiella del Blanco Marta Esther Functionalization of wood materials for smart filters in oil-water separation technology Supervisor: Burgert Ingo Co-Supervisor: Cabane Etienne ETH Zürich, Institut für Baustoffe ◆
	Vitas Selin Functionalization of wood materials for innovative application in filter technology Supervisor: Burgert Ingo Co-Supervisor: Cabane Etienne ETH Zürich, Institut für Baustoffe ◆
	Wang Yaru Wood modification by sol-gel derived inorganic nanoparticles Supervisor: Burgert Ingo Co-Supervisor: Cabane Etienne ETH Zürich, Institut für Baustoffe ◆
Automotive Powertrain Technologies	**Kammermann Thomas** Optical Diagnostics of Ignition and Early Flame Kernel Development in Hydrogen Enriched Methane Flames Supervisor: Boulouchos Konstantinos Co-Supervisor: Soltic Patrik ETH Zürich, Laboratorium für Aerothermochemie und Verbrennungssysteme ◆

Automotive Powertrain Technologies	**Liao Yujun** Heat transfer phenomena in Urea Water Sprays and SCR catalysts Supervisor: Boulouchos Konstantinos Co-Supervisor: Dimopoulos Eggenschwiler Panayotis ETH Zürich, Laboratorium für Aerothermochemie und Verbrennungssysteme ◆
	Nocivelli Lorenzo Numerical Simulation of SCR DeNOx systems Supervisor: Onorati Angelo Co-Supervisor: Dimopoulos Eggenschwiler Panayotis Politecnico di Milano, IT, Dipartimento di Energia, Milano, IT ◆
	Spiteri Alexander Experimental Investigation of the Injection Process in SCR DENOX Exhaust Gas Aftertreatment Systems Supervisor: Boulouchos Konstantinos Co-Supervisor: Dimopoulos Eggenschwiler Panayotis ETH Zürich, Laboratorium für Aerothermochemie und Verbrennungssysteme ○
Biointerfaces	**Cihova Martina** Metallic biomaterial surface properties and their impact on biological response Supervisor: Löffler Jörg Co-Supervisor: Maniura Katharina ETH Zürich, Dept. of Materials ◆
	Ghazaryan Gagik Biobased additives for the mechanical improvement of biopolymers Supervisor: Tervoort Theo A. Co-Supervisor: Maniura Katharina ETH Zürich, Dept. of Materials ◆
	Gontsarik Mark Tailoring antimicrobial peptides for bacteria membrane destruction Supervisor: Yagmur Anan Co-Supervisor: Salentinig Stefan University of Copenhagen, DK, Faculty of Health and Medical Sciences, Copenhagen, DK ◆
	Griffoni Chiara Advanced 3D skin model for the study and development of materials and drugs Supervisor: Walles Heike Co-Supervisor: Maniura Katharina University of Würzburg, DE, Biology, Würzburg, DE ◆
	Huber Rebecca Morphological gradients for protein adsorption and cell studies Supervisor: Spencer Nicolas Co-Supervisor: Maniurao Katharina, Fortunato Giuseppino ETH Zürich, Dept. of Materials ◆
	Mertgen Anne-Sophie Decoration of polymer fibers with cell adhesive proteins/protein fragments for improved attachment of endothelial cells in blood propulsion systems Supervisor: Vogel Viola Co-Supervisor: Maniura Katharina, Rottmar Markus ETH Zürich, Dept. of Health Sciences and Technology ◆
	Mulky Elias Engineering of absorbable fiber reinforced bone substitute materials Supervisor: Frenz Martin Co-Supervisor: Maniura Katharina, Fortunato Giuseppino Universität Bern, Division of Biomedical Photonics ◆
	Straub Hervé TBD Supervisor: Eberl Leo Co-Supervisor: Ren Qun Universität Zürich, Department of Plant and Microbial Biology ◆
	Weidenbacher Lukas Development of a blood-compatible Membrane. Supervisor: Ferguson Stephen Co-Supervisor: Maniura Katharina, Fortunato Giuseppino ETH Zürich, Dept. of Health Sciences and Technology ◆
	Weishaupt Ramon Protein immobilization on nanofibrous materials Supervisor: Snedeker Jess G. Co-Supervisor: Maniura Katharina, Ferrari Aldo ETH Zürich, Dept. of Health Sciences and Technology ◆
	Yazgan Gökce Development of spun cell-scaffolds for biomimetic 3D tissue formation for use in blood propulsion systems. Supervisor: Zenobi-Wong Marcy Co-Supervisor: Maniura Katharina, Fortunato Giuseppino

Building Energy Materials and Components	**Guerrero Natalia** Non-isocyanate polyurea: reaction optimization and applications in sol-gel chemistry Supervisor: Lattuada Marco Co-Supervisor: Koebel Matthias Universität Fribourg ◆
	Iswar Subramaniam Super insulating concepts based on polyurethane for building and construction with a thermal conductivity target of 15 mW/(m.K) at 10°C Supervisor: Lattuada Marco Co-Supervisor: Koebel Matthias Universität Fribourg, Adolphe Merkle Institute ◆
	Turetta Lorenzo Silica-carbon composite aerogels for sorption cooling Supervisor: Bowen Paul Co-Supervisor: Koebel Matthias EPF Lausanne, EDMX-ENS ◆
Center for X-ray Analytics	**Fei Yang** TBD Supervisor: Lura Pietro Co-Supervisor: Kaufmann Rolf ETH Zürich, Institut für Baustoffe ◆
	Liu Yu TBD Supervisor: Wegener Konrad Co-Supervisor: Flisch Alex ETH Zürich, Institut für Werkzeugmaschine und Fertigung ◆
	Schmid Ramon TBD Universität Bern ◆
	Stritt Carina TBD Supervisor: Löliger Hans-Andrea Co-Supervisor: Flisch Alexander ETH Zürich, Institut für Signal und Informationverarbeitung ◆
Concrete/Construction Chemistry	**Bernard Ellina** Magnesium silicate hydrates (M-S-H) Supervisor: Pochard Isabelle Co-Supervisor: Lothenbach Barbara Universite de Bourgogne, Dijon, FR ◆
	di Bella Carmelo Drying shrinkage and cracking of cementitious materials at early age Supervisor: Lura Pietro Co-Supervisor: Wyrzykowski Mateusz ETH Zürich, Institut für Baustoffe ○
	Fang Xing A fundamental investigation of cold mix asphalt modified with cementitious materials Supervisor: Lura Pietro Co-Supervisor: Garcia Alvaro ETH Zürich, Institut für Baustoffe ○
	Ghourchian Sadegh Plastic shrinkage cracking in concrete: from mechanisms to mitigation strategies Supervisor: Lura Pietro Co-Supervisor: Wyrzykowski Mateusz ETH Zürich, Institut für Baustoffe ◆
	Hu Zhangli Autogenous shrinkage in blended cement systems Supervisor: Scrivener Karen Co-Supervisor: Lura Pietro EPF Lausanne, LMC ◆
	Manzini Andrea Thermodynamic and spectroscopic investigations of the Fe and S speciation under reducing conditions Supervisor: Wehrli Bernhard Co-Supervisor: Lothenbach Barbara ETH Zürich, Umweltwissenschaften ◆
	Nedyalkova Latina A Structural and Thermodynamic Study of the Intercalation of Selenium(-IV), Selenium(-II), Sulfur(-II) and Iodine(-I) in Hydrocalumites (AFm-phases) Supervisor: Mäder Urs Co-Supervisor: Lothenbach Barbara Universität Bern, Geology ◆

Concrete/Construction Chemistry	**Schöler Axel** Hydration of multi-component cements containing cement clinker, slag, type-V fly ash, limestone: CEM X/A – M (S, V, LL, x) Supervisor: Ludwig Horst-Michael Co-Supervisor: Lothenbach Barbara Bauhaus, Universität Weimar, F.A. Fingerinstitut für Bauchstoffkunde ○
	Yang Fei Multi-contrast X-ray imaging of water and microstructure in cement-based materials Supervisor: Lura Pietro Co-Supervisor: Griffa Michele ETH Zürich, Institut für Baustoffe ◆
Electron Microscopy Center	**Agrawal Piyush** TBD Supervisor: Hébert Cécile Co-Supervisor: Erni Rolf EPF Lausanne, Physics ◆
	Bologna Nicolas TBD Supervisor: Fontcuberta Anna Co-Supervisor: Rossell Marta EPF Lausanne, Laboratory of Semiconductor Materials LMSC ◆
	Henninen Trond TBD Supervisor: Kovalenko Maksym Co-Supervisor: Erni Rolf ETH Zürich, Dept. Chemistry ◆
	Kozak Roksolana TBD Supervisor: Bona Gian-Luca Co-Supervisor: Rossell Marta D ETH Zürich, Dept. of Information Technology and Electrical Engineering ◆
Functional Polymers	**Anantharaman Surendra Babu** Self-assembly of cyanine dye molecules into J-aggregates on surfaces for applications in opto-electronic devices Supervisor: Nüesch Frank Co-Supervisor: Heier Jakob EPF Lausanne, Chemistry or Polymer Chemistry ◆
	Caspari Philip High permittivity siloxanes in the application of dielectric elastomer generators Supervisor: Nüesch Frank Co-Supervisor: Opris Dorina ETH Zürich, Chemistry or Polymer Chemistry ◆
	Dünki Simon Silicones with enhanced permittivity for dielectric elastomer actuators Supervisor: Nüesch Frank Co-Supervisor: Opris Dorina ETH Zürich, Chemistry or Polymer Chemistry ◆
	Gesevicius Donatas Morphology control by ionic interactions of cyanine/PCBM bulk heterojunctions for photovoltaic applications Supervisor: Nüesch Frank Co-Supervisor: Heier Jakob EPF Lausanne, Chemistry or Polymer Chemistry ◆
	Jenatsch Sandra Dynamics of Electronic and Ionic Charges in Cyanine Organic Semiconductor Devices Supervisor: Nüesch Frank Co-Supervisor: Hany Roland ETH Zürich, Chemistry or Polymer Chemistry ◆
	Ko Yee Song Smart materials for artificial muscle and energy harvesting Supervisor: Nüesch Frank Co-Supervisor: Opris Dorina ETH Zürich, Chemistry or Polymer Chemistry ◆
	Leclaire Nicolas Spatial and morphological growth control of cyanine dye crystals Supervisor: Nüesch Frank Co-Supervisor: Heier Jakob EPF Lausanne, Materials Sience and Engineering ◆

Functional Polymers	**Testa Paolo** All-organic optical upconversion device for single-element near infrared imaging. Info: der PhD hat uns frühzeitig verlassen (Anstellung dauerte nur vom 1.3.16-31.8.16) Supervisor: Nüesch Frank Co-Supervisor: Hany Roland EPF Lausanne ◆
	Veron Anna NIR Absorbing Colorants with Application in Light to Energy Conversion Supervisor: Nüesch Frank Co-Supervisor: Geiger Thomas ETH Zürich, Chemistry or Polymer Chemistry ○
High Performance Ceramics	**Knies Franziska** Kerasan: Massgeschneiderte u. verschmutzungsarme Keramikoberfläche für Sanitärkeramiken Supervisor: Graule Thomas Co-Supervisor: Graule Thomas Technische Universität, Bergakademie Freiberg, DE, Institut für Keramik & Glas & Baustofftechnik, Freiberg, D ○
	Madiba Itani G. VO2 for thermochromic windows Supervisor: Maaza Malik Co-Supervisor: Braun Artur University of South Africa, Physics Department, Pretoria, SA ◆
	Mitrentsis Eleni REFRAMATCH: Verbesserung der Kratzfestigkeit von Polyamiden durch den Einsatz brechungsindex-angepasster, nanopart. Füllstoffe Supervisor: Graule Thomas Co-Supervisor: Graule Thomas Technische Universität, Bergakademie Freiberg, DE, Institut für Keramik & Glas & Baustofftechnik, Freiberg, DE ◆
	Naikade Manoj SIMEA: Study and characterization of silicon metal alloys systems for the reactive infiltration process of ceramic matrix composites -SNSF grant number: 200021_163017 Supervisor: Weber Ludger Co-Supervisor: Graule Thomas EPF Lausanne, Laboratoire de Métallurgie Mécanique ◆
	Ozog Paulina KTI Projekt: Herstellung hochwertiger Aluminiumnitrid-basierter Keramiken aus verbrennungsbasierter Direktsynthese von nanoskaligen AlN-Pulvern - ALUMNI Supervisor: Kata Darius Co-Supervisor: Graule Thomas AGH University of Science and Technology, Cracow, PL, AGH University of Science and Technology, Krakow, PL ◆
	Savabieh Hamidreza Investigation of mechanical and dielectric properties of Li2O-Al2O3-SiO2 glass-ceramic and silicon nitride composite Supervisor: Parvin Alizadeh Co-Supervisor: Clemens Frank Tarbiat Modares University, Physics Department, Tehran, IR ◆
	Top Jens Molecular and physical aspects of dye sensitization of photoelec-trodes with copper-based sensitizer molecules SNF Verfügung: IZKSZ2_162232 Supervisor: Housecroft Catherine E. Co-Supervisor: Braun Artur Universität Basel, Dept. Chemistry ◆
Joining Technologies and Corrosion	**Bulthaupt Lars** Highly-energetic Al/CuO thermite coatings through nanoparticle Composites Supervisor: Kovalenko Maksym . Co-Supervisor: Jeurgens Lars P.H. ETH Zürich, Laboratorium für Anorganische Chemie (LAC) ◆
	Ilic Emilija Predicting deterioration phenomena at coating/implant interfaces in vivo Supervisor: Mischler Stefano Co-Supervisor: Hauert Roland EPF Lausanne, Institut des Matériaux IMX, Lausanne ◆
	Philipp Natzke TBD Supervisor: Grossner Ulrike Co-Supervisor: Janczak-Rusch Jolanta . ETH Zürich, APS ◆

Materials for Energy Conversion	**Bay Marie-Claude** ß‘‘-alumina electrolytes for enhanced electrical and mechanical performance of sodium nickel chloride batteries Supervisor: Vogt Ulrich Co-Supervisor: Vogt Ulrich Albert-Ludwigs-Universität Freiburg, DE, Institute of Crystallography, Freiburg im Breisgau, DE ◆
	Bonk Alex Synthesis, modification, and characterization of ceria based ceramics for solar thermochemical fuel production Supervisor: Vogt Ulrich Co-Supervisor: Vogt Ulrich Albert-Ludwigs-Universität Freiburg, DE, Institute of Crystallography, Freiburg im Breisgau, DE ○
	Duchêne Léo TBD Supervisor: Hagemann Hans Co-Supervisor: Remhof Arndt Universität Genf, Department of Physical Chemistry ◆
	Pagani Francesco TBD Supervisor: Rupp Jennifer Co-Supervisor: Battaglia Corsin ETH Zürich, Department of Materials ◆
	Reber David TBD Supervisor: Nüesch Frank Co-Supervisor: Battaglia Corsin EPF Lausanne, School of Engineering ◆
Mechanical Integrity of Energy Systems	**Chen Zhen** High temperature fracture mechanics investigations Supervisor: Mazza Edoardo Co-Supervisor: Holdsworth Stuart ETH Zürich, Institute for Mechani-cal Systems ◆
	Domaschke Sebastian Mechanical Interactions in fibrous networks Supervisor: Mazza Edoardo Co-Supervisor: Ehret Alexander ETH Zürich, Institute for Mechanical Systems ◆
	Flores Parra Edgar Alejandro Effect of periodic, interconnected piezoelectric elements on wave propagation and vibration properties of structures Supervisor: Ermanni Paolo Co-Supervisor: Bergamini Andrea ETH Zürich, Institute for Mechanical Systems ◆
	Röthlisberger André Arc erosion in contact materials: modelling and model experiments Supervisor: Spolenak Ralph Co-Supervisor: Mazza Edoardo ETH Zürich, Institute for Mechani-cal Systems ◆
	Schillai Kilian Fretting Fatigue of high voltage conductors Supervisor: Mazza Edoardo Co-Supervisor: Holdsworth Stuart ETH Zürich, Institute for Mechani-cal Systems ◆
	Schmied Jascha Integrated Multi-field Metamaterial Damping Supervisor: Ermanni Paolo Co-Supervisor: Bergamini Andrea ETH Zürich, Institute for Mechanical Systems ◆
	Testoni Oleg Investigation of structural connectivity as a design element in lightweight structures Supervisor: Ermanni Paolo Co-Supervisor: Bergamini Andrea ETH Zürich, Institute for Mechanical Systems ◆
Mechanical Systems Engineering	**Chakraborty Souvik** Interface and load transfer in carbon (nanoparticle) based epoxy composites Supervisor: Chakraborty Amit K. Co-Supervisor: Barbezat Michel NITD, Department of Physics, Durgapur IN ◆
	Cornaz Frédéric Jean-Pierre Intraoperative tissue analysis using radio frequency plasma spectroscopy Supervisor: Gerber Christian Co-Supervisor: Meyer Dominik, Weisse Bernhard Universität Zürich, Medizinische Fakultät ◆

Mechanical Systems Engineering	**Haba Dietmar** Toughening of epoxy with WS2 nanoparticles Supervisor: Pinter Gerald Co-Supervisor: Brunner Andreas J. Montanuniversität Leoben, AT, Material Science and Testing of Polymers, Leoben AT ○
	Lämmlein Tobias Bond of HM-CFRP tendons in HPC beams Supervisor: Lura Pietro Co-Supervisor: Terrasi Giovanni ETH Zürich, Institute for Building Materials – Dept. of Civil, Environmental and Geomatic Engineering ◆
	Senteler Marco The Effect of Sagittal Aligment of Spine and Pelvis on Intervertebral Joint Loads - Numerical Biomechanical Modeling and Simulation of Subject Specific Alignment Supervisor: Snedeker Jess Co-Supervisor: Weisse Bernhard ETH Zürich, Institute for Biomechanics ○
	Tomasikova Zuzana Hierarchical carbon-fiber composites with tailored interphase obtained via electrophoretic deposition of magnetized and functionalized carbon nanotubes Supervisor: Studart André Co-Supervisor: Brunner Andreas J. ETH Zürich, Dept. of Materials ◆
	Weiss Florian Nanostructures for Artificial Muscles (NAM) Supervisor: Müller Bert Co-Supervisor: Kovacs Gabor Universität Basel, Biomaterials Science Center ○
Mechanics of Materials and Nanostructures	**Berger Luisa** Coupling effects in artificial nano-dot lattices prepared by focused electron beam and atomic layer deposition (CANDLE) Supervisor: Utke Ivo Co-Supervisor: Hoffmann Patrik EPF Lausanne, Materials Science ◆
	Bertero Enrico Electrodeposition of stainless steel micro-components in UV-LIGA moulds Supervisor: Mischler Stefano Co-Supervisor: Michler Johann EPF Lausanne, Tribology and Interfacial Chemistry Group TIC ◆
	Casari Daniele Micromechanical Properties of Bone Supervisor: Zysset Philippe Co-Supervisor: Michler Johann Universität Bern, Institute of Surgical Technology and Biomechanics ◆
	Guerra Nuñez Carlos Atomic Layer Deposition for Energy Conversion Applications Supervisor: Park Hyung Gyulvo Co-Supervisor: Utke Ivo ETH Zürich, Department of Mechanical and Process Engineering ◆
	Mieszala Maxime Mechanical properties of 3D metallic architectured materials Supervisor: Mischler Stefano Co-Supervisor: Philippe Laetitia EPF Lausanne, Materials Science Department ◆
	Schürch Patrik Creation of 2D and 3D nanostructures for photovoltaic devices and mechanical testing Supervisor: Nüesch Frank Co-Supervisor: Philippe Laetitia EPF Lausanne, Materials Science Department ◆
	Thomas Keith Combinatorial studies of mechanical properties of multilayer thin films Supervisor: Spolenak Ralph Co-Supervisor: Michler Johann ETH Zürich, Materials Science Department ◆
	Wehrs Juri Mechanical properties of tailored nanostructured alloys produced by electrodeposition Supervisor: Mischler Stefano Co-Supervisor: Michler Johann EPF Lausanne, Materials Science Department ○

Multiscale Studies in Building Physics	**Ashrafi Habibabadi Amir** Advancing the knowledge of water droplet behavior and film forming on porous materials Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Mechanical and Process Engineering ◆
	Berry Tarl Optimisation of multi-scale ventilated package design for next-generation forced-air precooling strategies of horticultural produce Supervisor: Opara Linus Co-Supervisor: Defraeye Thijs University of Stellenbosch, SA, Department of Horticultural Science, Stellenbisch, SA ◆
	Chen Mingyang Sorption induced deformations of microporous material. Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Mechanical and Process Engineering ◆
	Dorostkar Omid Numerical Modeling of frictional behavior of saturatede fault gouge: insights toward earthquake triggering. Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	Ito Parada Marcelo The physics of wicking of textiles Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	Kanesan Christian TBD Supervisor: Carmeliet Jan Co-Supervisor: Defraeye Thijs ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	Kulasinski Karol Adsorption and swelling of complex porous media investigated with molecular dynamics simulation Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ○
	Lal Sreeyuth Multiscale Investigation and numereical Modeling of imbition, drainage and drying of a macroporous media Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ○
	Langella Giovanni Elvio Heat removal potential in urban configurations measured at high resolution in wind and water tunnels Supervisor: Carmeliet Jan Co-Supervisor: Allegrini Jonas ETH Zürich, Dept. of Mechanical and Process Engineering ◆
	Lemrich Laure Active and passive noise monitoring of granular media under different loading (compression /shear) and relation to macroscopic response and grain scale characteristics. Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	Manickathan Lento CFD study of impact of vegetation on heat isalnd effect. Supervisor: Carmeliet Jan Co-Supervisor: Defraeye Thijs ETH Zürich, Dept. of Mechanical and Process Engineering ◆
	Mussetti Gianluca TBD Supervisor: Carmeliet Jan Co-Supervisor: Brunner Dominik
	Prawiranto Kevin Solardrying of soft cellular materials: a multiscale approach. Supervisor: Carmeliet Jan Co-Supervisor: Defraeye Thijs ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	Qin Feifei LB Modelling of colloid drying Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Mechanical and Process Engineering ◆

Multiscale Studies in Building Physics	**Rogge Seppe** Geometric modelling of fruit based on X-ray CT images Supervisor: Nicolai Bart Co-Supervisor: Defraeye Thijs KU Leuven, Department of Biosystems, Leuven, BE ◆
	Shah Jiggar Vegetation as an urban heat island mitigation strategy Supervisor: Carmeliet Jan Co-Supervisor: Allegrini Jonas ETH Zürich, Dept. of Mechanical and Process Engineering ◆
	Son Soyoun Lattice Boltzman simulation of transport in porous media with application to porous asphalt. Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ○
	Zhang Chi Multiscale Modelling of wood cell S2 layer: Understanding wood swelling and moisture-induced shape memory. Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zürich, Dept. of Mechanical and Process Engineering ◆
Nanoscale Materials Science	**Fischer Maria** Al-based Oxynitride Coatings Supervisor: Hug Hans Josef Co-Supervisor: Patscheider Jörg Universität Basel, Inorganic Chemistry ◆
	Gehrig Jeffrey Entropic forces Supervisor: Hug Hans Co-Supervisor: Marioni Miguel Universität Basel, Department of Physics ◆
	Kawecki Maciej Sub-micrometre-scale 3D Chemical Characterization of Organic and Biological Materials Supervisor: Hug Hans J. Co-Supervisor: Bernard Laetitia Universität Basel, Institut für Physik ◆
	Li Jingyi Li-buckybowls hybrid materials for energy storage Supervisor: Ernst Karl-Heinz Co-Supervisor: Ernst Karl-Heinz Universität Zürich ◆
	Mairena Anais Chiral molecules at surfaces Supervisor: Ernst Karl-Heinz Co-Supervisor: Ernst Karl-Heinz Universität Zürich ◆
	Rieger Alexandra Physical properties of buckybowls for Supervisor: Ernst Karl-Heinz Co-Supervisor: Ernst Karl-Heinz Universität Zürich ◆
	Schwenk Johannes Friction across Phase Transitions Supervisor: Hug Hans Josef Co-Supervisor: Marioni Miguel A. Universität Basel, Physik ◆
	Srivastava Gitika Molecular machines Supervisor: Ernst Karl-Heinz Co-Supervisor: Ernst Karl-Heinz Universität Zürich ◆
	Trant Mathis TBD Supervisor: Hug Hans Josef Co-Supervisor: Patscheider Jörg Universität Basel, Institute of Physics ◆
	Zhang Xue Exchange-coupled transition metal - rare earth ferrimagnet multilayers investigated by MFM Supervisor: Hug Hans Josef Co-Supervisor: Marioni Miguel A. Universität Basel, Physik ◆

nanotech@surfaces	**Deniz Okan** Oxide Intercalation for Electronic Decoupling of Graphene Nano Ribbons on Metal Substrates Supervisor: Greber Thomas Co-Supervisor: Fasel Roman, Ruffieux Pascal Universität Zürich ◆
	Mishra Shantanu Electronic & magnetic properties of open-Shell graphene nanostructures Supervisor: Greber Thomas Co-Supervisor: Fasel Roman Universität Zürich, Physik Institut ◆
	Shinde Prashant Computational design of graphene based nanostructures Supervisor: Sigrist Manfred Co-Supervisor: Passerone Daniele ETH Zürich ○
	Stolz Samuel Chiral Intermetallic Surfaces for Enantioselective Reactions Supervisor: Brune Harald Co-Supervisor: Widmer Roland EPF Lausanne ◆
	Yakutovich Aliaksandr Computational insight into surface chemical reactions within a nanoscience laboratory Supervisor: Hutter Jürg Co-Supervisor: Passerone Daniele Universität Zürich ◆
Particles-Biology Interactions	**Aengenheister Leonie** Establishment and use of a perfused Transwell model to study nanoparticle-placenta interactions Supervisor: Sturla Shana J. Co-Supervisor: Buerki Tina ETH Zürich, Department of Health Sciences and Technology (Dept. of Health Sciences and Technology) ◆
	Civardi Chiara Assessment of the effectiveness and environmental risk of copper particles based wood preservatives Supervisor: Burgert Ingo Co-Supervisor: Peter Wick, Francis Schwarze
	Hempt Claudia TBD Supervisor: Co-Supervisor: Buerki-Thurnherr Tina Other (please specify) ◆
	Keevend Kerda TBD Supervisor: Goksel Orcun Co-Supervisor: Herrmann Inge ETH Zürich, Dept. of Information Technology and Electrical Engineering ◆
	May Sarah Nanogenotoxicology and DNA repair mechanisms Supervisor: Bürkle Alexander Co-Supervisor: Hirsch Cordula Uni Konstanz, DE, Molecular Toxicology Group, Konstanz, DE ◆
	Muoth Carina Advanced placental in vitro co-culture model to study nanoparticle uptake mechanisms and placental effects Supervisor: Nägeli Hanspeter Co-Supervisor: Buerki-Thurnherr Tina Universität Zürich, Veterinärpharmakologie und -toxikologe, Microbiology and Immunology ○
Protection and Physiology	**Abrishamkar Afshin** Work title: Exploration of site-specific crystal growth and device fabrication employing microfluidic technologies Supervisor: deMello Andrew Co-Supervisor: Puigmarti Josep ETH Zürich, Biochemical Engineering ◆
	Bösiger Peter Development of a smart bio composite wound dressing Supervisor: Schwarze Francis, Willis Matthew Robert Co-Supervisor: Fortunato Giuseppino Albert-Ludwigs-Universität , Institut für Forstbotanik, Freiburg, DE ◆
	Dabrowska Agnieszka Advanced physical skin models to simulate friction of human skin Supervisor: Spencer Nicholas Co-Supervisor: Rossi René ETH Zürich, Department of Materials ◆

Protection and Physiology	**Ghimre Bhuwan** not defined yet Supervisor: Decurtins Silvio Co-Supervisor: Puigmarti Josep Universität Bern ◆
	Guan Manhao Heat and moisture transfer in thermal protective clothing in low radiant heat considering physiological sweating Supervisor: Li Jun Co-Supervisor: Rossi René Donghua University, Fashion and art design Institute, Shanghai, CN ◆
	Koelblen Barbara Builing user Simulator - a novel tool to advance the energy Efficiency in built environment Supervisor: Bogdan Anna Co-Supervisor: Psikuta Agnes Warsaw University of Technology, PL, Department of Heating and Air Conditioning, Warsaw, PL ◆
	Luo Jialuo (not decided so far) Supervisor: Sorin Fabien Co-Supervisor: Boesel Luciano EPF Lausanne ◆
	MacRae Braid Non invasive monitoring of the human body's thermal status Supervisor: Spengler Walder Christina Co-Supervisor: Annaheim Simon ETH Zürich, Dept. of Health Sciences and Technology ◆
	Marcolin Chiara Electrospinning of natural polymers for tissue Engineering applications Supervisor: Draghi Lornza Co-Supervisor: Fortunato Giuseppino Politecnico di Milano, IT, Department of chemistry, materials and chemical engineering, Milan, IT ○
	Mert Emel Effect of air gap thickness and contact area on heat transfer through garments in real life situation Supervisor: Bueno Marie-Ange Co-Supervisor: Psikuta Agnieszka Université de Haute Alsace, FR, Textile Institute, Mulhouse, FR ○
	Mertgen Anne-Sophie Decoration of polymer fibers with cell adhesive proteins/protein fragments for improved attachement endothelial cells in bood propulsion systems Supervisor: Vogel Viola Co-Supervisor: Maniura Katharina
	Morel Alexandre Fiber-to-fiber interactions in electrospun mats Supervisor: Ferguson Stephen Co-Supervisor: Spano Fabrizio ETH Zürich, Institute for Biomechanics ◆
	Quandt Brit Maike Optical fiber textiles in non-invasive medical applications for continuous treatment Supervisor: Bona Gian-Luca Co-Supervisor: Scherer Lukas ETH Zürich ○
	Schmid Ramon noch offen Supervisor: Co-Supervisor:
	Ulrich Sebastian Photo- and magneto-switchable membranes Supervisor: Bruns Nico Co-Supervisor: Boesel Luciano Universität Fribourg, Adolphe Merkle ◆
	Weidenbacher Lukas Development of a blood-compatible membrane Supervisor: Ferguson Stephen Co-Supervisor: Fortunato Giuseppino ETH Zürich, Dept. of Health Sciences and Technology ◆
	Yazgan Gökçe Electrospinning for scaffolds Supervisor: Zenobi-Wong Marcy Co-Supervisor: Maniura Katharina ETH Zürich, Dept. of Health Sciences and Technology ○

Protection and Physiology	**Zhai Lina** Skin burn prediction methods for thermal protective clothing evaluation Supervisor: Li Jun Co-Supervisor: Rossi René Donghua University, Fashion Institute, Shanghai, CN ◆
Reliability Science and Technology	**Butti Pascal** Graphene RGB Supervisor: Ensslin Klaus Co-Supervisor: Sennhauser Urs ETH Zürich ◆
	Gagnidze Tornike Dielectric enhancement for high DC cuprat super conductors Supervisor: Bona Gian-Luca Co-Supervisor: La Mattina Fabio ETH Zürich ◆
	Grotevent Matthias Ultrasensitive quantum dot-graphene infrared detector arrays Supervisor: Kovalenko Maxim Co-Supervisor: Shorubalko Ivan ETH Zürich ◆
	Liu Yu ILATO Supervisor: Wagner Konrad Co-Supervisor: Sennhauser Urs
	Pagani Francesco TBD Supervisor: Patzke Greta Co-Supervisor: Sennhauser Urs
	Römmeler Arno NOQAPTJ Non-destructive quality assessment of polymer tube joints Supervisor: Daraio Chiara Co-Supervisor: Jürg Neuenschwander ETH Zürich, Chair of mechanics and materials ◆
	Stritt Carina CTOMES Supervisor: Löliger Hans-Andrea Co-Supervisor: Sennhauser Urs
	Valzania Lorenzo Thz imaging and modeling of the interface Supervisor: Feurer Thomas Co-Supervisor: Hack Erwin University of Bologna, IT, Bologna, IT ◆
Road Engineering/Sealing Components	**Cavalli Maria Chiara** Sustainable Fully Recycled Asphalt Concrete Supervisor: Mazza Edoardo Co-Supervisor: Poulikakos Lily ETH Zürich, Institute for Mechani-cal Systems ◆
	Celma Cervera Carlos Mechanics of stone-based infrastructure materials at large deformations Supervisor: Partl Manfred Co-Supervisor: Jelagin Denis KTH, ABE/Architecture and the Built Environment, Stockholm, SE ◆
	Conzelmann Nicholas Engineered High Performance Aggregates for Sustainable Road Pavements Supervisor: Müller Christoph Co-Supervisor: Poulikakos Lily ETH Zürich, Energy Science and Engineering ◆
	Ghafooriroozbahany Ehsan Flow behaviour of asphalt mixtures under simulated compaction Supervisor: Partl Manfred Co-Supervisor: Jelagin Denis KTH, ABE Architecture and the Built environment, Stockholm, SE ◆
	Hailesilassie Biruk Morphology Characterization of Foam Bitumen and Modeling for Low Temperature Asphalt Concrete Supervisor: Partl Manfred Co-Supervisor: Hugener Martin KTH, Väg-och-Banteknik, Väg-och-Banteknik, Stockholm, SE ○

Road Engineering/Sealing Components	**Jeoffroy Etienne** Magnetically Triggered Crack Healing of Asphalt Pavements Supervisor: Studart André Co-Supervisor: Partl Manfred ETH Zürich, Complex Materials ◆
Structural Engineering	**Boberg Klara Maria** Mitigation of Wind-Induced Vibrations in Long-Span Bridges using a Distributed Flap System Supervisor: Martinoli Alcherio Co-Supervisor: Feltrin Glauco EPF Lausanne, EPFL, School of Architecture, Civil and Environmental Engineering ENAC ○
	Dauti Dorjan A combined experimental and numerical approach to spalling of concrete in high temperature Supervisor: Dal Pont Stefano, Weber Benedikt Co-Supervisor: Weber Benedikt Université Grenoble Alpes, Laboratory 3SR, France ◆
	Ehrhart Thomas Homogenes und kombiniertes Buchen-Brettschichtholz: Technische Grundlagen zur Marktimplementierung als Bauprodukt für Biegeträger und Stützen Supervisor: Frangi Andrea Co-Supervisor: Steiger René ETH Zürich, Institut für Baustatik und Konstruktion ◆
	Harmanci Yunus Emre Long-term Resistance of Gradient Anchorage for Prestressed CFRP Strips in Structural Concrete Retrofitting' (LoReGra) Supervisor: Chatzi Eleni Co-Supervisor: Michels Julien ETH Zürich, Institute of Structural Engineering ◆
	Hosseini Ardalan Mixed-mode fatigue strengthening of metallic members using CFRP plates Supervisor: Nussbaumer Alain Co-Supervisor: Motavalli Masoud EPF Lausanne, Steel Structures Laboratory ICOM ◆
	Izadi Mohammadreza Retrofitting Fatigue prone connections in steel bridges using pre-stressed advanced materials Supervisor: Motavalli / Maalek Masoud Co-Supervisor: Motavalli Masoud University of Tehran, School of Civil Engineering, Tehran, IR ◆
	Jalsan Khash-Erdene Wireless Sensor Network Planning for Structural Health Monitoring Supervisor: Martinoli Alcherio Co-Supervisor: Feltrin Glauco EPF Lausanne, EPFL, School of Architecture, Civil and Environmental Engineering ENAC ◆
	Martins João Updated braking forces for the assessment of road bridges Supervisor: Beyer Katrin Co-Supervisor: Feltrin Glauco EPF Lausanne ○
Technology and Society	**Bornhöft Nikolaus** Ereignisdiskrete Modellierung von Stoffflüssen in der Umwelt unter Unsicherheit (Arbeitstitel) Supervisor: Hilty Lorenz Co-Supervisor: Nowack Bernd Universität Zürich, Ifi ◆
	Caballero Alejandro TBD Supervisor: Nowack Bernd Co-Supervisor: Nowack Bernd ETH Zürich, institute ◆
	Holm Stefan Developing an Agent-based Model of the Swiss Wood Market (working title) Supervisor: Hilty Lorenz Co-Supervisor: Universität Zürich, Informatics ◆
	Kolpondinos (-Huber) Martina Understanding Stakeholder Engagement in Requirements Engineering: Exploring Game-based Elicitation Methods for the Development of Sustainable Software Systems (working title) Supervisor: Glinz Martin Co-Supervisor: Hilty Lorenz Universität Zürich, Informatics ◆

Technology and Society	**Müller Sandra** Development of a framework for the classification and evaluation of urban mines Supervisor: Williams Ian Co-Supervisor: Wäger Patrick University of Southhampton, GB, Centre for Environmental Sciences, Southampton, GB ◆
	Reinhard Jürgen Regionalization in Life Cycle Inventory Modeling: A method for the integration and use of spatial data in Life Cycle Assessment (working title) Supervisor: Hilty Lorenz Co-Supervisor: Universität Zürich, Informatics ◆
	Restrepo Eliette Towards an Optimal Recovery of Critical Metals from End of Life Vehicles Supervisor: Müller Daniel Co-Supervisor: Wäger Widmer Patrick, Rolf Norwegian Institute of Science and Technology, NO, Department of Energy and Process Engineering , Trondheim, NO ◆
	Wang Yan TBD Supervisor: Nowack Bernd Co-Supervisor: Nowack Bernd ETH Zürich, Dept. of Environmental Systems Science ◆
	Wenger Delphine Modeling the flows of microplastics in the environment Supervisor: Nowack Bernd Co-Supervisor: Nowack Bernd ETH Zürich, Dept. of Environmental Systems Science ◆
	Yuliyan Maksimov Towards Sustainable Software Engineering for the Internet of Things Supervisor: Hilty Lorenz Co-Supervisor: Meyer Sonja Universität Zürich, Informatics ◆
Thin Films and Photovoltaics	**Andres Christian** TBD Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Romanyuk Yaroslav ETH Zürich ◆
	Avancini Enrico TBD Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Buecheler Stephan ETH Zürich, Dept. of Information Technology and Electrical Engineering ◆
	Bissig Benjamin Microscopic and macroscpic investigation of electrical properties in thin film solar cells Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Buecheler Stephan ETH Zürich, Dept. of Information Technology and Electrical Engineering ◆
	Feurer Thomas still open Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Buecheler Stephan ETH Zürich, Dept. of Information Technology and Electrical Engineering ◆
	Fu Fan Perovskite-CIGS Tandem Solar Cell Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Buecheler Stephan ETH Zürich, Dept. of Information Technology and Electrical Engineering ◆
	Fuchs Peter Chemical bath deposition of ZnO:Al transparent conducting electrodes Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Romanyuk Yaroslav ETH Zürich, Dept. of Information Technology and Electrical Engineering ◆
	Guntlin Christoph TBD Supervisor: Kovalenko Maksym Co-Supervisor: Kovalenko Maksym ETH Zürich, Departement Chemie und Angewandte Biowissenschaften ◆

Thin Films and Photovoltaics	**Haass Stefan** Kesterite absorber materials for thin film solar cells Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Romanyuk Yaroslav ETH Zürich, Dept. of Information Technology and Electrical Engineering, Uni Karlsruhe, DE ◆
	Keller Debora Electron Microscopy of CIGS solar cells Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Erni Rolf ETH Zürich, Dept. of Information Technology and Electrical Engineering ○
	Külah Elçin TBD Supervisor: Tiwari Ayodhya Co-Supervisor: Romanyuk Yaroslav ETH Zürich ◆
	Lingg Martina TBD Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Perrenoud Julian ETH Zürich ◆
	Löckinger Johannes TBD Supervisor: Tiwari Ayodhya Co-Supervisor: Romanyuk Yaroslav ETH Zürich ◆
	Meng He TBD Supervisor: Kovalenko Maksym Co-Supervisor: Kovalenko Maksym ETH Zürich, Departement Chemie und Angewandte Biowissenschaften ◆
	Pisoni Stefano TBD Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Bücheler Stephan ETH Zürich, Empa ◆
	Rawlence Michael Solid state electrolyte and thin film cathod materials for battery application Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Buecheler Stephan ETH Zürich, Dept. of Materials ◆
	Walter Marc Novel high-energy electrode materials for Na-ion batteries Supervisor: Kovalenko Maksym Co-Supervisor: Kovalenko Maksym ETH Zürich, Departement Chemie und Angewandte Biowissenschaften ◆
	Wang Shutato TBD Supervisor: Kovalenko Maksym Co-Supervisor: Kovalenko Maksym ETH Zürich, Departement Chemie und Angewandte Biowissenschaften ◆
Urban Energy Systems	**Hohmann Marc** TBD Supervisor: Lygeros John Co-Supervisor: Dorer Viktor ETH Zürich, Dept. of Information Technology and Electrical Engineering ◆
	Marquant Julien TBD Supervisor: Carmeliet Jan Co-Supervisor: Dorer Viktor ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	Mavromatidis Georgios TBD Supervisor: Carmeliet Jan Co-Supervisor: Orehounig Kristina ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	Miglani Somil TBD Supervisor: Carmeliet Jan Co-Supervisor: Orehounig Kristina ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆

Urban Energy Systems	**Morvaj Boran** TBD Supervisor: Carmeliet Jan Co-Supervisor: Dorer Viktor ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	Murray Portia TBD Supervisor: Carmeliet Jan Co-Supervisor: Orehounig Kristina ETH Zürich, Dept. of Mechanical and Process Engineering ◆
	Waibel Christoph TBD Supervisor: Carmeliet Jan Co-Supervisor: Evins Ralph ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	Wang Danhong TBD Supervisor: Carmeliet Jan Co-Supervisor: Orehounig Kristina ETH Zürich, Dept. of Mechanical and Process Engineering ◆

Empa Activities 2016

Teaching Activities

Swiss Federal Institute of Technology, Zürich (ETH)	Architecture	**Allegrini Jonas, Jan Carmeliet** Bauphysik 3: Eneergie + Komfort
		Allegrini Jonas, Jan Carmeliet, Heini Wernli, Dominik Brunner, Jean-Marc Wunderli, Christoph Schär Urban Physics
		Allegrini Jonas, Jan Carmeliet, Dominique Derome Building Physics: Theory and Application
		Brunner Dominik, Carmeliet Jan, Schär Christoph, Wernli Heini, Wunderli Jean-Marc Building Physics IV: Urban Physics
		Derome Dominique, Carmeliet Jan, Allegrini Jonas Building Physics: Theory and Application
		Dorer Viktor, K. Orehounig, R.Evins, A. Schlueter Building Systems
		Eggenschwiler Kurt Raumakustik
		Evins Ralph, J. Lygeros, R. Smith, C. Gaehler Building Automation and Control
		Evins Ralph, K. Orehounig, V. Dorer, A. Schlueter Building Systems
		Evins Ralph, K. Orehounig Building Simulation
		Hischier Roland Integrierte Disziplin "Ökobilanzen" im Rahmen des Entwicklungsstudio von Assistent Prof. D. Hebel
		Hischier Roland Integrierte Disziplin "Ökobilanzen" im Rahmen des Entwicklungsstudio von Assistent Prof. D. Hebel
		Koebel Matthias Materials and construction
		Koebel Matthias, Jan Carmeliet, Tanja Zimmermann, Oliver Trzebiatowski, Frank Winnefeld Baumaterialien 1
		Orehounig Kristina, R. Evins Whole building simulation
		Orehounig Kristina, Evins, Dorer, Schlüter Building Systems
		Schoenwald Stefan, M. Fontana, R. Geissler, K. M. Udert Indoor Environment, Resources and Safety
		Winnefeld Frank Mineral building materials as part of the lecture „Baumaterialien I: Struktur-Eigenschaften-Verwendung", Bachelor Programme Architecture
		Wunderli Jean Marc, Jan Carmeliet Urban physics
		Zimmermann Tanja Baumaterialien I
	Chemistry and Applied Biosciences	**Kovalenko Maksym, Kotyrba Martin/Viciu Liliana** Anorganische Chemie II
		Kovalenko Maksym, Romanyuk Yaroslav, Lippert Thomas Functional Inorganics
		Romanyuk Yaroslav, Kovalenko Maksym, Lippert Thomas Functional Inorganics
	Civil engineers	**Zimmermann Tanja** Holzphysik
	Civil, Environmental and Geomatic Engineering	**Buchmann Brigitte** Luftreinhaltung 1
		Buchmann Brigitte, Hofer Peter Luftreinhaltung

Swiss Federal Institute of Technology, Zürich (ETH)	Civil, Environmental and Geomatic Engineering	**Burgert Ingo** • Holzbe- und Verarbeitung • Holzphysik • Holz und Holzwerkstoffe • Holzstruktur und –funktion • Werkstoffe I • Werkstoffe IV
		Eggenschwiler Kurt, Wunderli Jean Marc Lärmbekämpfung
		Griffa Michele, Lura Pietro, Wyrzykowski Mateusz Shrinkage and Cracking of Concrete: Mechanisms and Impact on Durability
		Hass Philipp Werkstoffe III
		Henne Stephan, Reimann Stefan/Gereke Andreas Air pollution modeling and chemistry
		Hofer Peter, Buchmann Brigitte Luftreinhaltung
		Kläusler Oliver Holzbe- und Verarbeitung
		Leemann Andreas Alkali-aggregate reaction in concrete, part of the "Concrete Material Science" course
		Loser Roman, Janis Justs Werkstoffe III - Beton: Technologie, Festigkeit, Verformbarkeit
		Lura Pietro, Mateusz Wyrzykowski, Michele Griffa Shrinkage and Cracking of Concrete: Mechanisms and Impact on Durability
		Motavalli Masoud, Czaderski Christoph, Feltrin Glauco, Gallego Juan Manuel, Ghafoori Elyas, Shahverdi Moslem, Widmann Robert Fibre composite material in strutrual Engineering
		Özparpucu Merve Werkstoffe III
		Partl Manfred Bituminöse Werkstoffe
		Reimann Stefan, Henne Stephan, Gerecke Andreas Air Pollution Modeling and Chemistry
		Rüggeberg Markus Werkstoffe III
		Schnider Thomas Werkstoffe III
		Steiger René Holz und Holzwerkstoffe: Ernte, Strukturmerkmale und Produktion von Vollholz
		Steiger René Erdbebengerechte Konzeption Bemessung und Konstruktion von Holzbauten
		Wang Jing Air quality and aerosol mechanics
		Wang Jing, Wick Peter Air quality and health impact
		Wang Jing Environment and Computer Laboratory: Air quality measurement
		Wang Jing, Burlando Paulo Environmental Engineering Seminars
		Wick Peter, Jing Wang, Hans Schleibinger Health Impact, Toxicity and Industrial Hygiene
		Wyrzykowski Mateusz, Sadegh Ghourchian, Nikolajs Toropovs Werkstoffe III: Mineralische Bindemittel
	Environmental Systems Science	**Brunner Dominik, Markus Ammann** Atmosphärenchemie
		Mohn Joachim Stable Isotope Ecology of Terrestrial Ecosystems
		Nowack Bernd, Som Claudia Gesellschaftlicher Umgang mit aktuellen Umweltrisiken
		Nowack Bernd, Som Claudia Gesellschaftlicher Umgang mit aktuellen Umweltrisiken
		Nowack Bernd, Bucheli Thomas Nanomaterials in the Environment

Swiss Federal Institute of Technology, Zürich (ETH)	Health Sciences and Technology	**Annaheim Simon** Praktikum Sportphysiologie
		Maniura Katharina Biocompatible Materials
		Maniura Katharina Principles in Tissue Engineering
		Rossi René Sportphysiologie
		Rossi René Thermoregulation and Sporttextilien
	Health Sciences and Technology und Chemistry and Applied Biosciences	**Stämpfli Rolf** Biomechanik von Sportverletzungen und Rehabilitation: Mechanische Prüfung von Schutzausrüstung
	Information Technology and Electrical Engineering	**Buecheler Stephan, Romanyuk Yaroslav, Tiwari Ayodhya N.** Solar Cells
		Heutschi Kurt Acoustics 1, Acoustics 2
		Sennhauser Urs, Grossmann Günter Physics of Failure and Failure Analysis of Electronic Devices and Equipment
		Tiwari Ayodhya Nath, Yaroslav Romanyuk, Stephan Buecheler Solar Cells
	Institut für Geochemie und Petrologie / Erdwissenschaften	**Liati Anthi, von Quadt Albrecht** Advanced Geochronology
	Institute for Atmospheric and Climate Science	**Reimann Stefan, Peter Thomas, Stenke Andrea** Stratospheric chemistry
	Institute of Environmental Engineering	**Thiébaud Esther** Prospective Environmental Assessment
	Institute of Technology in Architecture	**Defraeye Thijs** Building Physics II: Moisture
	Institute of Technology in Architecture	**Defraeye Thijs, Jan Carmeliet** Moisture and Durability
	Labor für Umweltingenieurwissens chaften	**Tuchschmid Martin, Urs Gfeller** Mobile Röntgenfluoresezenz-Spectrometrie
	Laboratorium für Aerothermochemie und Verbrennungssystem	**Dimopoulos Eggenschwiler Panayotis, Herrmann Kai** Diagnostics in Experimental Combustion Research
	Materials	**Barbezat Michel, Roth Manfred, Graule Thomas** Integrity of Materials and Structures
		Bay Marie-Claude, Pagani Francesco, Kühnel Ruben Simon, Battaglia Corsin Practical Laboratory Course III
		Burgert Ingo, Cabane, Etienne Biological and bioinspired materials
		Clemens Frank Verbundwerkstoffe
		Clemens Frank, Givoanni Terrasi Advanced Composite and Adaptive Material Systems
		Erni Rolf Electron Microscopy in Materials Science
		Ernst Karl-Heinz Biomineralization
		Graule Thomas, Barbezat, Michel, Roth, Manfred Integrity of Materials and Structures
		Graule Thomas, Niederberger, Markus, Studart, André Keramik I
		Hegemann Dirk, Spolenak, Ralph; Studart, Andre Materials at Work II
		Heuberger Manfred, N.D. Spencer, L. Isa Surfaces, Interfaces & their applications
		Kübler Jakob, A. D. Schlüter Material Science II, part mechanical properties of ceramics

Swiss Federal Institute of Technology, Zürich (ETH)	Materials	**Passerone Daniele, Joost VandeVondele** Molecular and Materials Modeling
		Patscheider Jörg, Maria Fischer Praktikum PIII
		Schmutz Patrik, B. Elsener Surfaces, Interfaces and their Applications II
		Schmutz Patrik, Olga Guseva Practical course III/IV: Introduction in Electrochemical Impedance Spectroscopy (EIS). Examples of batteries and anodized barrier oxides characterization
		Terrasi Giovanni P., Kovacs Gabor, Clemens Frank Advanced Composite and Adaptive Material Systems
	Material Science	**Beloin-Saint-Pierre Didier, Böni Heinz, Wäger Patrick, Widmer Rolf, Loevik Amund, Gauch Marcel** Sustainable materials management: concepts, methods and principles
		Borgschulte Andreas, Willeke,Martin and various others D-MATL Praktikum III
		Wäger Patrick, Beloin Saint-Pierre Didier, Gasser Michael, Gauch Marcel, Loevik, Amund, Widmer, Rolf Sustainable Materials Management: Concepts, Methods and Principles
	Mechanical and Process Engineering	**Bergamini Andrea** Adaptive Materials for Structural Applications
		Dimopoulos Eggenschwiler Panayotis, Boulouchos Konstantinos IC-Engines and Propulsion Systems II
		Ehret Alexander Mechanics of Soft Materials and Tissues
		Hack Erwin, Brönnimann Rolf Optical Methods in Experimental Mechanics
		Kammermann Thomas, Boulouchos Konstantinos Combustion and Reactive Processes in Energy and Materials Technology
		Kammermann Thomas, Herrmann Kai Diagnostics in Experimental Combustion
		Koller Roland, Guillaume Michel Betriebsfestigkeit
		Kovacs Gabor Seilbahnen
		Kovacs Gabor AK Seilbahnen
		Liao Yujun, Rösgen Thomas Experimental Methods for Engineers
		Mazza Edoardo Continuum Mechanics I
		Mazza Edoardo Kinematik und Statik (Kolloquium)
		Mazza Edoardo Kinematik und Statik
		Mazza Edoardo, Röhrnbauer Barbara Nonlinear Continuum Mechanics
		Romanyuk Yaroslav, Tiwari Ayodhya, Buecheler Stephan Solar Cells
		Terrasi Giovanni P. GL zum Bemessen von Kunststoffbauteilen
		Zemp Armin Turbomachinery Mechanics & Dynamics
AGH Krakow, PL	Faculty of material science and ceramics	**Graule Thomas** Synthesis of nanosized particles and their application in nanoceramics and nanocomposite technology
Albert-Ludwigs-Universität Freiburg, DE	Institute of Earth and Environmental Sciences	**Remhof Arndt** Röntgenpulverdiffraktometrie
		Remhof Arndt X-Ray Diffraction by Crystals
		Vogt Ulrich F. Crystalline Materials: Technical and Applied Mineralogy, Modern Ceramics, Cements, and Glasses

Albert-Ludwigs-Universität Freiburg, DE	Institute of Earth and Environmental Sciences	**Vogt Ulrich F.** Energie und Georessourcen: Angewandte Mineralogie mit dem Schwerpunkt Keramische Materialien
Amsterdam University, NL	Physics Dept.	**Derome Dominique, Carmeliet Jan, Prat Marc, Shahidzadeh Noushine** Physics for art conservation
Carleton University, Ottawa, CN	Civil and Environmental Engineering	**Raab Christiane** CIVE5806 Advanced Pavement Engineering and Management
Donghua University, Shanghai, CN	Fibers and Textiles	**Rossi René** Smart fibers and textiles for medical applications
École Polytechnique Fédérale, Lausanne (EPF)	Atmospheric Chemistry Modelling Laboratory	**Reimann Stefan, Takahama Satoshi** Measurements of air pollutants
	Doctoral School for photonics EDPO	**Nüesch Frank, Yaroslav Romanyuk, Franz Haug** Modern Photovoltaic Technologies
	EDPO-Doctoral school	**Romanyuk Yaroslav, Nüesch Frank, Haug Franz-Josef** Modern photovoltaic technologies
	EPF Microcity Neuchâtel	**Dommann Alex** HIM 2016
	Institut für Materialwissenschaften	**Nüesch Frank** Organic Semiconductors (lecture 2h per week, exercise 1h per week)
	Material Science	**Michler Johann** Material Selection
	Materials	**Philippe Laetitia, Stefano Mischler, Jan van Herle** Electrochemistry for Materials Technology
	Microtechnique	**Hoffmann Patrik** Chimie des Surfaces
	Microtechnique; Materials Science and Engineeirng, Mechanical Engineering	**Hoffmann Patrik** Laser Microprocessing
	School of Engineering	**Vaucher Sébastien, Michler Johann, Siegmann Stephan** Materials Selection
		Lüthi Thomas Non-destructive Evaluation Methods
Fachhochschule Horw	Bautechnik	**Piskoty Gabor** Metallische Baustoffe
Fachhochschule Nordwestschweiz		**Wäger Patrick** Studiengang Energie- und Umwelttechnik: Modul Abfallwirtschaft und Recyling
	Zentrum für Ressourceneffizienz	**Wäger Patrick** Seltene Erden (Studiengang EUT (Energie und Umwelttechnik, Modul "Stoffliche Ressourcen)
Fernfachhochschule Schweiz (FFHS)	Technik/Engineering	**Wasmer Kilian** Einführung in die Tribologie & Metallographie
Grenoble Alpes University, FR	Grenoble European Courses Organization	**Hug Hans J.** Scanning Probe Microscopy
Harbin Institute of Technology, Harbin, CN	Civil Engineering	**Meier Urs**
HF TGZ, Poligrafische Akademie, Wallisellen		**Hischier Roland** Ökologie
Hochschule Luzern	Abteilung Objektdesign	**Gasser Michael** Design & Nachhaltigkeit
Hochschule Luzern HSLU	Engineering and Architecture	**Dorer Viktor** Natural and Hybrid Ventilation
Hochschule Luzern , HSLU Technik & Architektur in Horw	ITZ	**Borgschulte Andreas** Energiespeicherung – wer hat das Ei des Kolumbus mit „jeopardy“
International School of Solid State Physics, Enrice, IT		**Koebel Matthias** 69th Course - “Materials for Energy and Sustainability - V” – “EPS-SIF International School on Energy – III” Summer School
KTH, Stockholm, SE	ABE/Architecture and Built Environment	**Partl Manfred, Jelagin Denis** Advanced Rheology of Bituminous Materials (7.5 hp)
	School of Computer Science and Communications	**Hilty Lorenz** Sustainable Development for Computer Science and Engineering

Pädagogische Hochschule Luzern	Naturwissenschaften	**Gröning Oliver** Nanotechnologie: Technologische Revolution oder Marketing Hype
Sacred Heart University of Brescia, IT	Dept. of Mathematics and Physics	**Chiodi Mirco** Microstructural analysis through X-Ray Diffraction techniques
Shanghai University, CN	Materials Genome Institute	**Nüesch Frank** Organic Semiconductors and Devices
STF Zürich	Textile Design & Technology	**Amberg Martin, Hegemann Dirk, Heuberger Manfred** Nanotechnologie
		Hegemann Dirk, Heuberger, Manfred; Amberg, Martin Nanotechnologie
		Heuberger Manfred, Amberg, M., Hegemann, D. Nanotechnologie
	Packaging Manager / Grundlagenseminar	**Hischier Roland** Ökologie im Verpackungsbereich
Technische Univeristät München, DE	Limnologische Station	**Jacob Peter** Einführung in die Rasterelektronenmikroskopie
	Verfahrens- und Umwelttechnik	**Graule Thomas, Aneziris, Christos** Nanoskale Verbundwerkstoffe: Eine Herausforderung für die Prozesstechnik
		Hilty Lorenz Ringvorlesung Umwelt
TSH Pfäffikon	Hochbau	**Partl Manfred** Materialkunde
UN University (StEP)		**Widmer Rolf** • EWAM (E-waste Academy for Managers) • EWAS (E-waste Academy for Scientist
Uni FR	Interfakultär	**Züttel Andreas** Umweltwissenschaften, Physik
	Physik	**Züttel Andreas** Physik im Alltag
UNIS, Longyearbyen, Spitzbergen (NO)	Arctic Technology	**Reimann Stefan, Schmidbauer Norbert** Techniques for the Detection of Organo-Chemical Pollutants in the Arctic Environment
Universita degli studi Parma IT	Dipertimento di Energia	**Dimopoulos Eggenschwiler Panayotis, Gambarotta Agostino** • Fisica Ambientale • IC-Engines • Industrial Engineering
Universität Freiburg im Breisgau, DE	Forest Sciences	**Schwarze Francis** • Bäume in der Stadt • Pilze als Schlüsselfaktoren in Umweltfragen
Universität St. Gallen	School for Humanities and Social Sciences	**Wäger Patrick, Böni Heinz, Gauch Marcel, Hilty Lorenz, Hischier Roland, Thiébaud Esther, Widmer Rolf** Von Stoffen und Werten
University of Applied Sciences, Basel/Muttenz	Institute for Ecoprenuership	**Zennegg Markus** Environmental Risk Assessment
University of Applied Sciences, Berne	Architektur, Holz und Bau	**Raab Christiane, Schiffmann Frank, Wittwer Peter, Graf C, Beyeler M.** Wahlpflichtmodul Ausgewählte Kapitel Strassenbau
	Lebensmitteltechnologie	**Hischier Roland** Verpackungen unter ökologischer Betrachtung
University of Applied Sciences, Horw		**Eggenschwiler Kurt** Bau-/Raumakustik CAS Akustik
	Bautechnik	**Loser Roman** Beton und Bindemittel
University of Applied Sciences, Muttenz		**Eggenschwiler Kurt, Heutschi Kurt, Tröbs Hans Martin, Wunderli Jean Marc, Barbara Locher** Messpraktikum, CAS Akustik
University of Applied Sciences, Rapperswil	Institut für Wissen, Energie und Rohstoffe Zug	**Wäger Patrick** Energie und Ressourceneffizienz
University of Applied Sciences, St. Gall	Business Administration and Engineering	**Wäger Patrick, Gauch, Marcel** **Hischier, Roland** MAS BAE, "Umwelt- und Ressourcenmanagement"
University of Applied Sciences, Wädensw	Institute of Natural Resource Sciences	**Hueglin Christoph** Urban Agriculture

University of Applied Sciences, Wädensw	Institute of Natural Resource Sciences	**Hueglin Christoph, Rolf Krebs** Umweltchemie und Analytik
	Institut für Umwelt und Natürliche Ressourcen IUNR	**Wäger Patrick** Modul Ressourcenbewirtschaftung
	Institute of Chemistry and Biological Chemistry	**Zennegg Markus** Ökologie: Chemie und Umwelt
		Eggenschwiler Kurt Lärmbekämpfung
University of Applied Sciences, Winterthur	Institute of Materials and Process Engineering	**Hegemann Dirk, Winkler, Martin; Schneider, Toni** Beschichtungen
	Verfahrenstechnik, Department of Industrial Technologies	**Clemens Frank, Dirk Penner** Funktionsmaterialien
University of Applied Sciences, Zurich	ICBT Institut für Chemie & Biotechnologie (Urs Baier)	**Borgschulte Andreas, Bach Christian, Zweifel Hans-Ruedi** Energiespeicherung -Wer hat das Ei des Kolumbus
	Institut für Chemie und Biotechnologie	**Heeb Norbert** Ökologie, Chemie und Umwelt
	Physics Dept.	**Gröning Oliver** Photoelectron Spectroscopy STM and STS of organic monolayers and novel low-dimensional materials
University of Basel	Dept. of Physics	**Hug Hans J., Marioni M. A.** Magnetismus und magnetische Materialien
	Nanoscience	**Hug Hans, Schwenk Johannes, Zhao Xue, Gehrig Jeffrey, Penedo Marcos, Trant Mathis, Fischer Maria** Introduction to Nanoscience Lecture
	Umweltwissenschaften	**Reimann Stefan** Umweltsystem Atmosphäre: Luftverschmutzung und Klimaerwärmung
		Reimann Stefan, Schaub Monika Aktuelle Umweltprobleme in den Geowissenschaften (Klima, Boden, Stoffkreisläufe)
University of Berne	Dept. für Chemie und Biochemie	**Fasel Roman** Introduction to the Physics and Chemistry of Surfaces
	Graduate School of Climate Sciences	**Krug Harald, Peter Stucki, Christoph Raible** Graduate Seminar Climate Sciences
	Medical Faculty	**Krug Harald, Christoph Raible, Andreas Schönenberger, Barbara Rothen-Rutishauser, Fabian Blank** Environment-related Diseases: from Climate Change to Nanotoxicology
	Medizinische Fakultät, Biomedical Engineering	**Dommann Alex** • Biomaterials • Applied Biomaterials
		Widmer Roland, Okan Deniz Introduction ESCA
University of Edinburgh, UK	Institute of Infrastructure	**Terrasi Giovanni P.** Mechanics of composites for repairing and strengthening structures
University of Fribourg	Chemistry	**Neels Antonia** Applied X-ray Diffraction Methods
University of Teheran, IR	Faculty of Civil Engineering	**Motavalli Masoud** Fibre composite material in strutrual Engineering
University of Zurich	Chemistry	**Borgschulte Andreas** NanoChemistry
		Ernst Karl-Heinz, Anais Mairena Chemical Processes at Solid Surfaces
	Biology	**Rottmar Markus** Regenerative Medicine and Applied Tissue Engineering
		Ernst Karl-Heinz, Jan Helbing Chirality in the Physical Sciences
		MAIRENA Anaïs Exercises of "Chemical Processes at Solid Surfaces"
		Rieger Alexandra Chemical Processes at Solid Surfaces
	Graduate School on Chemistry & Molecular Science	**Bleiner Davide** Laser Plasmas & Ablation

University of Zurich	Informatik	**Hilty Lorenz** • Informatik, Ethik und Gesellschaft • Informatik und nachhaltige Entwicklung • Informatik f˙r Oekonomen III
		Hilty Lorenz, Marc Chesney, Markus Huppenbauer, Bernhard Schmid, Piet Spaak, Katharina Michaelowa u.a. Einführung in die Grundlagen der Nachhaltigkeit
ZHAW Wädenswil	ICBT Institut für Chemie & Biotechnologie	**Gauch Marcel,** Biogene Energieträger - Umweltauswirkungen von Biotreibstoffen
ZHAW Winterthur	INE-ZHAW Institut für Nachhaltige Entwicklung	**Gauch Marcel,** Technologien für Entwicklungsländer
ZHdK Zurich University of the Arts	Dept. of Music	**Heutschi Kurt** Audiotechnik

Empa Activities 2016

Publications

Empa staff publish in many national and international scientific and technical journals as well as in daily press and other special organs. Please note that the list below represents only the scientific and technical journals.

General Management	**Isa, F./Jung, A./Salvalaglio, M./Arroyo Rojas Dasilva, Y./Meduňa, M./Barget, M./Kreiliger, T./Isella, G./Erni, R./Pezzoli, F./Bonera, E./Niedermann, P./Zweiacker, K./Neels, A./Dommann, A./Gröning, P./Montalenti, F./von Känel, H.** Elastic and Plastic Stress Relaxation in Highly Mismatched SiGe/Si Crystals. Materials Research Society Advances. 2016, 1, 50, 3403–3408 (joint paper)
	Isa, F./Salvalaglio, M./Arroyo Rojas Dasilva, Y./Jung, A./Isella, G./Erni, R./Timotijevic, B./Niedermann, P./Gröning, P./Montalenti, F./Känel, H. Enhancing elastic stress relaxation in SiGe/Si heterostructures by Si pillar necking. Applied Physics Letters. 2016, 109, 18, Article number 182112 (5 pp) (joint paper) ✹
	Mavromatidis, G./Orehounig, K./Richner, P./Carmeliet, J. A strategy for reducing CO2 emissions from buildings with the Kaya identity – A Swiss energy system analysis and a case study. Energy Policy. 2016, 88, 11, 343–354 (joint paper) ■
	Neels, A./Kaufmann, R./Bauer, M./Dalle Vacche, S./Leterrier, Y./Dommann, A. X-ray studies on polymers and composites: the combination of 2D WAXS, SAXS and X-ray imaging techniques. 30th European Crystallographic Meeting, Acta Crystallographica Section A: Foundations and Advances. 2016, A72, S139 (joint paper) ✹
	Sanchez-Valencia, J. -R/Longtin, R./Rossell, M. D./Gröning, P. Growth Assisted by Glancing Angle Deposition: A New Technique to Fabricate Highly Porous Anisotropic Thin Films. ACS Applied Materials & Interfaces. 2016, 8, 13, 8686–8693 (joint paper) ✹
	Schifferle, A./Bandi, T./Neels, A./Dommann, A. Where is the limit? Yield strength improvement in silicon micro-structures by surface treatments. Physica Status Solidi A. 2016, 213 (1), 102–107 (joint paper) ✹
	Scopece, D./Döbeli, M./Passerone, D./Maeder, X./Neels, A./Widrig, B./Dommann, A./Müller, U./Ramm, J. Silicon etch with chromium ions generated by a filtered or non-filtered cathodic arc discharge. Science and Technology of Advanced Materials. 2016, 17, 1, 20–28 (joint paper) ✹
	Zellweger, C./Emmenegger, L./Firdaus, M./Hatakka, J./Heimann, M./Kozlova, E./Spain, T. G./Steinbacher, M./van der Schoot, M. V./Buchmann, B. Assessment of recent advances in measurement techniques for atmospheric carbon dioxide and methane observations. Atmospheric Measurement Techniques. 2016, 9, 9, 4737–4757 (joint paper) ■
	Zoltán, B.M./Zweiacker, K./Zhang, Y./Jung, A./Flötgen, C./Chahine, G./Dommann, A. /Erni, R./von Känel, H./Neels, A. HRXRD analysis of bonded Si /Si interface. 30th European Crystallographic Meeting, Acta Crystallographica Section A: Foundations and Advances. 2016, A72, S299–S300 (joint paper) ✹
	Advanced Materials and Surfaces
Advanced Materials Processing	**Akbari, M./Buhl, S./Leinenbach, C./Wegener, K.** A new value for Johnson Cook damage limit criterion in machining with large negative rake angle as basis for understanding of grinding. Journal of Materials Processing Technology. 2016, 234, 58–71 (joint paper) ■
	Cozzo, C./Ishizaki, K./Pouchon, M. A./Vaucher, S. Developing an in situ EXAFS experiment of microwave-induced gelation. Journal of sol-gel science and technology. 2016, 78, 3, 507–513 ✹
	Crisan, O./Crisan, A. D./Mercioniu, I./Nicula, R./Vasiliu, F. Development and structural characterization of exchange-spring-like nanomagnets in (Fe, Co)Pt bulk nanocrystalline alloys. Journal of Magnetism and Magnetic Materials. 2016, 401, 711–715 ✹
	Esqué-de los Ojos, D./Ghisleni, R./Battisti, A./Mohanty, G./Michler, J./Sort, J./Brunner, A. J. Understanding the mechanical behavior of fiber/matrix interfaces during push-in tests by means of finite element simulations and a cohesive zone model. Computational Materials Science. 2016, 117, 330–337 (joint paper) ✹
	Infante-Gómez, D./Herzig, H. P. Design, simulation, and quality evaluation of micro-optical freeform beam shapers at different illumination conditions. Applied Optics. 2016, 55, 29, 8340–8346 ✹

Advanced Materials Processing	**Kenel, C./Grolimund, D./Fife, J. L./Samson, V. A./Van Petegem, S./Van Swygenhoven, H./Leinenbach, C.** Combined in situ synchrotron micro X-ray diffraction and high-speed imaging on rapidly heated and solidified Ti–48Al under additive manufacturing conditions. Scripta Materialia. 2016, 114, 117–120 (joint paper) ✹
	Kenel, C./Leinenbach, C. Influence of Nb and Mo on microstructure formation of rapidly solidified ternary Ti–Al-(Nb, Mo) alloys. Intermetallics. 2016, 69, 82–89 (joint paper) ✹
	Kenel, C./Schloth, P./Van Petegem, S./Fife, J. L./Grolimund, D./Menzel, A./Van Swygenhoven, H./Leinenbach, C. In Situ Synchrotron X-Ray Diffraction and Small Angle X-Ray Scattering Studies on Rapidly Heated and Cooled Ti-Al and Al-Cu-Mg Alloys Using Laser-Based Heating. JOM. 2016, 68, 3, 978–984 (joint paper) ✹
	Koster, M./Lis, A./Lee, W. J./Kenel, C./Leinenbach, C. Influence of elastic–plastic base material properties on the fatigue and cyclic deformation behavior of brazed steel joints. International Journal of Fatigue. 2016, 82, Part 1, 49–59 (joint paper) ✹
	Lee, W. J./Partovi-Nia, R./Suter, T./Leinenbach, C. Electrochemical characterization and corrosion behavior of an Fe-Mn-Si shape memory alloy in simulated concrete pore solutions. Materials and Corrosion – Werkstoffe und Korrosion. 2016, 67, 8, 839–846 (joint paper) ✹
	Leinenbach, C./Czaderski, C./Michels, J./Graf, M./Kawalla, R. Development of rolling technology for an iron-based shape-memory-alloy . Materials Science Forum. 2016, 854, 79–86 (joint paper)
	Leinenbach, C./Lee, W. J./Lis, A./Arabi-Hashemi, A./Cayron, C./Weber, B. Creep and stress relaxation of a FeMnSi-based shape memory alloy at low temperatures. Materials Science and Engineering A. 2016, 677, 106–115 (joint paper) ✹
	Leinenbach, C./Weyrich, N./Stacher, M./Richter, K. W. Reactive phase formation and isothermal solidification in the Ni/Au-18.6Si/Ni layer system. Journal of Alloys and Compounds. 2016, 687, 7–16 (joint paper) ✹
	Lis, A./Kenel, C./Leinenbach, C. Characteristics of Reactive Ni3Sn4 Formation and Growth in Ni-Sn Interlayer Systems. Metallurgical and Materials Transactions A. 2016, 47, 6, 2596–2608 (joint paper) ✹
	Malheiro, V./Lehner, F./Dinca, V./Hoffmann, P./Maniura-Weber, K. Convex and concave micro-structured silicone controls the shape, but not the polarization state of human macrophages. Biomaterials Science. 2016, 4, 11, 1562–1573 (joint paper) ■
	Meylan, B./Dogan, P./Sage, D./Wasmer, K. A simple, fast and low-cost method for in situ monitoring of topographical changes and wear rate of a complex tribo-system under mixed lubrication. Wear. 2016, 364–365, 22–30 ✹
	Nagumothu, K. B./Kallip, K./Leparoux, M./AlOgab, K. A./Maeder, X./Arroyo Rojas Dasilva, Y. Influence of microstructure and strengthening mechanism of AlMg5–Al2O3 nanocomposites prepared via spark plasma sintering. Materials & Design. 2016, 95, 534–544 (joint paper) ■
	Nagumothu, K. B./Kallip, K./Leparoux, M./AlOgab, K. A./Reddy, G. M./Talari, M. K. Characterization of microstructure and mechanical properties of friction stir welded AlMg5- Al2O3 nanocomposites. Materials Science & Engineering A. 2016, 658, 109–122 ✹
	Popescu, A. C./Delval, C./Shadman, S./Leparoux, M. Investigation and in situ removal of spatter generated during laser ablation of aluminium composites. Applied Surface Science. 2016, 378, 102–113 ✹
	Reinke, M./Kuzminykh, Y./Hoffmann, P. Surface Reaction Kinetics of Titanium Isopropoxide and Water in Atomic Layer Deposition. Journal of Physical Chemistry C. 2016, 120, 8, 4337–4344 ✹
	Saeidi, F./Meylan, B./Hoffmann, P./Wasmer, K. Effect of surface texturing on cast iron reciprocating against steel under starved lubrication conditions: A parametric study. Wear. 2016, 348–349, 17–26 ✹
	Saeidi, F./Shevchik, S. A./Wasmer, K. Automatic detection of scuffing using acoustic emission. Tribology International. 2016, 94, 112–117 ✹
	Talari, M. K./Kishore Babu, N./Kallip, K./Leparoux, M./Koller, R. E./AlOgab, K. A./Maeder, X. Microstructure, mechanical, and impression creep properties of AlMg5–0.5 vol% Al2O3 nanocomposites. Advanced Engineering Materials. 2016, 18, 11, 1958–1966 (joint paper) ■
	Vakili-Farahani, F./Lungershausen, J./Wasmer, K. Process parameter optimization for wobbling laser spot welding of Ti6Al4V alloy. Physics Procedia. 2016, 83, 483–493
	Wang, T./Ivas, T./Lee, W./Leinenbach, C./Zhang, J. Relief of the residual stresses in Si3N4/Invar joints by multi-layered braze structure – Experiments and simulation. Ceramics International. 2016, 42, 4, 7080–7087 (joint paper) ✹
	Wang, T./Liu, C./Leinenbach, C./Zhang, J. Microstructure and strengthening mechanism of Si3N4/Invar joint brazed with TiNp-doped filler. Materials Science & Engineering A. 2016, 650, 469–477 (joint paper) ✹

Electron Microscopy Center

Agrawal, P./Guo, J./Yu, P./Hébert, C./Passerone, D./Erni, R./Rossell, M. D.
Strain-driven oxygen deficiency in multiferroic SrMnO3 thin films. Physical Review B. 2016, 94, 10, Article number 104101 (9 pp) (joint paper) ✹

Czornomaz, L./Uccelli, E./Sousa, M./Deshpande, V./Djara, V./Caimi, D./Rossell, M. D./Erni, R./Fompeyrine, J.
Confined Epitaxial Lateral Overgrowth (CELO): A novel concept for scalable integration of CMOS-compatible InGaAs-on-insulator MOSFETs on large-area Si substrates, 2015, Symposium on VLSI Technology Digest of Technical Papers. 2015, T172 (Accession .: 15412559)T173

Eltes, F./Caimi, D./Fallegger, F./Sousa, M./O'Connor, E./Rossell, M. D./Offrein, B./Fompeyrine, J./Abel, S.
Low-Loss BaTiO3–Si Waveguides for Nonlinear Integrated Photonics. ACS Photonics. 2016, 3, 9, 1698–1703 ■

Erni, R.
Coherent Chromatic Effect in the Transmission Electron Microscope. Physical Review Letters. 2016, 116, 11, Article number 116101 (5 pp) ✹

Erni, R.
On the validity of the Čerenkov limit as a criterion for precise band gap measurements by VEELS. Ultramicroscopy. 2016, 160, 80–83 ✹

Guarnizo, A./Angurell, I./Muller, G./Llorca, J./Seco, M./Rossell, O./Rossell, M. D.
Highly water-dispersible magnetite-supported Pd nanoparticles and single atoms as excellent catalysts for Suzuki and hydrogenation reactions. RSC Advances. 2016, 6, 73, 68675–68684 ■

Huber, L./Ruch, P./Hauert, R./Matam, S. K./Saucke, G./Yoon, S./Zhang, Y./Koebel, M. M.
Water sorption behavior of physically and chemically activated monolithic nitrogen doped carbon for adsorption cooling. RSC Advances. 2016, 6, 84, 80729–80738 (joint paper) ■

Ilari, G. M./Chawla, V./Matam, S./Zhang, Y./Michler, J./Erni, R.
Electron energy loss spectroscopy analysis of the interaction of Cr and V with MWCNTs. Micron. 2016, 84, 37–42 (joint paper) ✹

Isa, F./Jung, A./Salvalaglio, M./Arroyo Rojas Dasilva, Y./Meduňa, M./Barget, M./Kreiliger, T./Isella, G./Erni, R./Pezzoli, F./Bonera, E./Niedermann, P./Zweiacker, K./Neels, A./Dommann, A./Gröning, P./Montalenti, F./von Känel, H.
Elastic and Plastic Stress Relaxation in Highly Mismatched SiGe/Si Crystals. Materials Research Society Advances. 2016, 1, 50, 3403–3408 (joint paper)

Isa, F./Salvalaglio, M./Arroyo Rojas Dasilva, Y./Jung, A./Isella, G./Erni, R./Niedermann, P./Gröning, P./Montalenti, F./von Känel, H.
From plastic to elastic stress relaxation in highly mismatched SiGe/Si heterostructures. Acta materialia. 2016, 114, 97–105 ✹

Isa, F./Salvalaglio, M./Arroyo Rojas Dasilva, Y./Jung, A./Isella, G./Erni, R./Timotijevic, B./Niedermann, P./Gröning, P./Montalenti, F./Känel, H.
Enhancing elastic stress relaxation in SiGe/Si heterostructures by Si pillar necking. Applied Physics Letters. 2016, 109, 18, Article number 182112 (5 pp) (joint paper) ✹

Isa, F./Salvalaglio, M./Dasilva, Y. A. R./Meduňa, M./Barget, M./Jung, A./Kreiliger, T./Isella, G./Erni, R./Pezzoli, F./Bonera, E./Niedermann, P./Gröning, P./Montalenti, F./Von Känel, H.
Highly Mismatched, Dislocation-Free SiGe/Si Heterostructures. Advanced Materials. 2016, 28, 5, 884–888 ✹

Keller, D./Buecheler, S. Reinhard, P./Pianezzi, F./Bissig, B./Carron, R./Hage, F./Ramasse, Q./Erni, R./Tiwari, A. N.
Band gap widening at random CIGS grain boundary detected by valence electron energy loss spectroscopy. Applied Physics Letters. 2016, 109, 15, Article number 153103 (4 pp) (joint paper) ✹

Keller, D./Buecheler, S./Reinhard, P./Pianezzi, F./Snoeck, E./Gatel, C./Rossell, M. D./Erni, R./Tiwari, A. N.
Assessment of off-axis and in-line electron holography for measurement of potential variations in Cu(In, Ga)Se2 thin-film solar cells. Advanced Structural and Chemical Imaging. 2016, 2, 1, 20 pp

Kuc, J./Neumann, M./Armbrüster, M./Yoon, S./Zhang, Y./Erni, R./Weidenkaff, A./Matam, S. K.
Methanol steam reforming catalysts derived by reduction of perovskite-type oxides LaCo1−x−yPdxZnyO3±δ. Catal. Sci. Technol. 2016, 6, 1455–1468 (joint paper) ✹

Liati, A./Schreiber, D./Dimopoulos Eggenschwiler, E./Arroyo Rojas Dasilva, Y./Spiteri, A. C.
Electron microscopic characterization of soot particulate matter emitted by modern direct injection gasoline engines. Combustion and Flame. 2016, 166, 3, 307–315 (joint paper) ✹

Liu, H./Moré, R./Grundmann, H./Cui, C./Erni, R./Patzke, G. R.
Promoting Photochemical Water Oxidation with Metallic Band Structures. Journal of the American Chemical Society. 2016, 138, 5, 1527–1535 ✹

Mitrano, D. M./Lombi, E./Arroyo Rojas Dasilva, Y./Nowack, B.
Uaveling the Complexity in the Aging of Nanoenhanced Textiles: A Comprehensive Sequential Study on the Effects of Sunlight and Washing on Silver Nanoparticles. Environmental Science and Technology. 2016, 50, 11, 5790–5799 (joint paper) ✹

Nagumothu, K. B./Kallip, K./Leparoux, M./AlOgab, K. A./Maeder, X./Arroyo Rojas Dasilva, Y.
Influence of microstructure and strengthening mechanism of AlMg5–Al2O3 nanocomposites prepared via spark plasma sintering. Materials & Design. 2016, 95, 534–544 (joint paper) ■

Electron Microscopy Center	**Puydinger dos Santos, M. V./Velo, M. F./Domingos, R. D./Zhang, Y./Maeder, X./Guerra-Nuñez, C./Best, J. P./Béron, F./Pirota, K. R./Moshkalev, S./Diniz, J. A./Utke, I.** Annealing-based electrical tuning of cobalt–carbon deposits grown by focused-electron-beam-induced deposition: ACS Applied Materials & Interfaces. 2016, 8, 47, 32496–32503 (joint paper) ✹
	Rossell, M. D./Caparrós, F. J./Angurell, I./Muller, G./Llorca, J./Seco, M./Rossell, O. Magnetite-supported palladium single-atoms do not catalyse the hydrogenation of alkenes but small clusters do. Catalysis Science & Technology. 2016, 6, 12, 4081–4085 ■
	Sanchez-Valencia, J. -R/Longtin, R./Rossell, M. D./Gröning, P. Growth Assisted by Glancing Angle Deposition: A New Technique to Fabricate Highly Porous Anisotropic Thin Films. ACS Applied Materials & Interfaces. 2016, 8, 13, 8686–8693 (joint paper) ✹
	Warneke, J./Rohdenburg, M./Zhang, Y./Orzagh, J./Vaz, A./Utke, I./De Hosson, J. Th M./van Dorp, W. F./Swiderek, P. Role of NH3 in the Electron-Induced Reactions of Adsorbed and Solid Cisplatin. Journal of Physical Chemistry C. 2016, 120, 7, 4112–4120 (joint paper) ✹
	Watzinger, H./Kloeffel, C./Vukušić, L./Rossell, M. D./Sessi, V./Kukučka, J./Kirchschlager, R./Lausecker, E./Truhlar, A./Glaser, M./Rastelli, A./Fuhrer, A./Loss, D./Katsaros, G. Heavy-hole states in Germanium hut wires. Nano Letters. 2016, 16, 11, 6879–6885 ✹
	Wheeler, J. M./Raghavan, R./Wehrs, J./Zhang, Y./Erni, R./Michler, J. approaching the Limits of Strength: Measuring the Uniaxial Compressive Strength of Diamond at Small Scales. Nano Letters. 2016, 16, 1, 812–816 (joint paper) ✹
	Zhang, H./Niesen, B./Hack, E./Jenatsch, S./Wang, L./Véron, A. C./Makha, M./Schneider, R./Arroyo, Y./Hany, R./Nüesch, F. Cyanine tandem and triple-junction solar cells. Organic Electronics. 2016, 30, 11, 191–199 (joint paper) ✹
	Zhang, Y./Guerra-Nuñez, C./Li, M./Michler, J./Park, H. G./Rossell, M. D./Erni, R./Utke, I. High Conformity and Large Domain Monocrystalline Anatase on Multiwall Carbon Nanotube Core–Shell Nanostructure: Synthesis, Structure, and Interface. Chemistry of Materials. 2016, 28, 10, 3488–3496 (joint paper) ✹
	Zhao, S./Malfai, W. J./Jeong, E./Fischer, B./Zhang, Y./Xu‖, H./Angelica, E./RisenJr., W. M./Suggs, J. W./Koebel, M. M. Facile one-pot synthesis of mechanically robust biopolymer–silica nanocomposite aerogel by cogelation of silicic acid with chitosan in aqueous media. ACS Sustainable Chemistry & Engineering. 2016, 4, 10, 5674–5683 (joint paper) ■
	Zoltán, B.M./Zweiacker, K./Zhang, Y./Jung, A./Flötgen, C./Chahine, G./Dommann, A./Erni, R./von Känel, H./Neels, A. HRXRD analysis of bonded Si /Si interface. 30th European Crystallographic Meeting, Acta Crystallographica Section A: Foundations and Advances. 2016, A72, S299–S300 (joint paper) ✹
Functional Polymers	**Caspari, P./Nueesch, F./Neels, A./Opris, D. M.** Mild synthesis of mercaptonitriles from vinyl nitriles and their cyclization reactions. RSC Advances. 2016, 6, 100, 98059–98065 (joint paper) ■
	Civardi, C./Schlagenhauf, L./Kaiser, J. P./Hirsch, C./Mucchino, C./Wichser, A./Wick, P./Schwarze, F. W. M. R. Release of copper-amended particles from micronized copper-pressure-treated wood during mechanical abrasion: Journal of Biotechnology. 2016, 14, 77 (10 pp.)–53 (joint paper) ✹
	Civardi, C./Schlagenhauf, L./Kaiser, J.P./Hirsch, C./Mucchino, C./Wichser, A./Wick, P./Schwarze, F.W.M.R. Release of copper-amended particles from micronized copper-pressure-treated wood during mechanical abrasion. Journal of Nanobiotechnology. 2016, 14, 77 (10 pp.) (joint paper) ■
	Dünki, S. J./Dascalu, M./Nüesch, F. A./Opris, D. M. Silicones with enhanced permittivity for dielectric elastomer actuators. Proceedings of SPIE. 2016, 9798, Article number 97982K (12 pp)
	Dünki, S. J./Nüesch, F. A./Opris, D. M. Elastomers with tunable dielectric and electromechanical properties. Journal of Materials Chemistry C. 2016, 4, 44, 10545–10553 ✹
	Fernandes, S. L./Véron, A. C./Neto, N. F. A./Nüesch, F. A./Dias da Silva, J. H./Zaghete, M. A./de O. Graeff, C. F. Nb2O5 hole blocking layer for hysteresis-free perovskite solar cells. Materials Letters. 2016, 181, 103–107 ✹
	Fuchs, P./Paracchino, A./Hagendorfer, H./Kranz, L./Geiger, T./Romanyuk, Y. E./Tiwari, A. N./Nüesch, F. Indium-Free PTB7/PC71BM Polymer Solar Cells with Solution-Processed Al:ZnO Electrodes on PET Substrates. International Journal of Photoenergy. 2016, Article number 2047591 (7 pp) (joint paper) ■
	Garg, N./Lata, P./Jit, S./Sangwan, N./Singh, A. K./Dwivedi, V./Niharika, N./Kaur, J./Saxena, A./Dua, A./Nayyar, N./Kohli, P./Geueke, B./Kunz, P./Rentsch, D./Holliger, C./Kohler, H. P. E./Rup, L. Laboratory and field scale bioremediation of hexachlorocyclohexane (HCH) contaminated soils by means of bioaugmentation and biostimulation. Biodegradation. 2016, 27, 2, 179–193 ■
	Gulde, R./Meier, U./Schymanski, E. L./Kohler, H. -P E./Helbling, D. E./Derrer, S./Rentsch, D./Fenner, K. Systematic Exploration of Biotransformation Reactions of Amine-Containing Micropollutants in Activated Sludge. Environmental Science & Technology. 2016, 50, 6, 2908–2920 ✹

Functional Polymers	**Huang, J./Yan, Y./Remhof, A./Zhang, Y./Rentsch, D./Au, Y. S./de Jongh, P./Cuevas, F./Ouyang, L./Zhu, M./Züttel, A.** A novel method for the synthesis of solvent-free Mg(B3H8)2. Dalton Transactions. 2016, 45, 9, 3687–3690 (joint paper) ✹
	Jenatsch, S./Wang, L./Bulloni, M./Véron, A. C./Ruhstaller, B./Altazin, S./Nüesch, F./Hany, R. Doping Evolution and Junction Formation in Stacked Cyanine Dye Light-Emitting Electrochemical Cells ACS Applied Materials & Interfaces. 2016, 8, 10, 6554–6562 ✹
	Ko, Y. S./Cuervo-Reyes, E./Nüesch, F. A./Opris, D. M. Temperature Dependent Impedance Spectroscopy and Thermally Stimulated Depolarization Current (TSDC) Analysis of Disperse Red 1-co-Poly(methyl methacrylate) Copolymers. Proceedings of SPIE. 2016, 9798, Article number 97981I (9 pp) (joint paper)
	Makhaa, M./Fernandesa, S. L./Jenatscha, S./Offermans, T./Schleuniger, J./Tisserant, J. -N/Véron, A. C./Hany, R. A transparent, solvent-free laminated top electrode for perovskite solar cells. Science and Technology of Advanced Materials. 2016, 17, 1, 260–266 ✹
	Perju, E./Dünki, S. J./Opris, D. M. A versatile synthetic path to thiol containing polysiloxanes. Journal of polymer science: part A: polymer chemistry. 2016, 54, 18, 2940–2948 ✹
	Quinsaat, J. E. Q./Nüesch, F. A./Hofmann, H./Opris, D. M. Hydrophobization of silver nanoparticles through surface-initiated atom transfer radical polymerization. RSC Advances. 2016, 6, 50, 44254–44260 ■
	Schöller, K./Toncelli, C./Experton, J./Widmer, S./Rentsch, D./Vetushka, A./Martin, C. J./Heuberger, M./Housecroft, C. E./Constable, E. C./Boesel, L. F./Scherera, L. J. 2, 2′:6′, 2″-Terpyridine-functionalized redox-responsive hydrogels as a platform for multi responsive amphiphilic polymer membranes. RSC Advances. 2016, 6, 100, 97921–97930 (joint paper) ■
	Skov, A.L./Pei, Q./Opris, D./Spontak, R.J./Gallone, G./Shea, H./Bensliman, M.Y. Dielectric elastomers (DEs) as EAPs: materials. Electromechanically Active Polymers. 2016, 1–28
	Tisserant, J. N./Reissner, P. A./Jenatsch, S./Beyer, H./Hany, R./Stemmer, A. Interfacial self-assembly of nanoporous C60 thin films. RSC Advances. 2016, 6, 28, 23141–23147 ■
	Valet, S./Weisse, B./Fischer, B./Meyer, D. C. Mechanical effects of heat exposure from a bipolar radiofrequency probe on suture under simulated arthroscopic conditions. Arthroscopy: The Journal of Arthroscopic & Related Surgery. 2016, 32, 10, 1985–1992 (joint paper) ✹
	Wang, J./Siqueira, G./Müller, G./Rentsch, D./Huch, A./Tingaut, P./Levalois-Grützmacher, J./Grützmacher, H. Synthesis of new bis(acyl)phosphane oxide photoinitiators for the surface functionalization of cellulose nanocrystals. Chemical Communications. 2016, 52, 13, 2823–2826 ✹
	Zhang, H./Niesen, B./Hack, E./Jenatsch, S./Wang, L./Véron, A. C./Makha, M./Schneider, R./Arroyo, Y./Hany, R./Nüesch, F. Cyanine tandem and triple-junction solar cells. Organic Electronics. 2016, 30, 11, 191–199 (joint paper) ✹
	Zhao, S./Malfai, W. J./Jeong, E./Fischer, B./Zhang, Y./Xu‖, H./Angelica, E./RisenJr., W. M./Suggs, J. W./Koebel, M. M. Facile one-pot synthesis of mechanically robust biopolymer–silica nanocomposite aerogel by cogelation of silicic acid with chitosan in aqueous media. ACS Sustainable Chemistry & Engineering. 2016, 4, 10, 5674–5683 (joint paper) ■
High Performance Ceramics	**Bozza, F./Bator, K./Kubiak, W. W./Graule, T.** Effects of Ni doping on the sintering and electrical properties of BaZr0.8Y0.2O3–δ proton conducting electrolyte prepared by Flame Spray Synthesis. Journal of the European Ceramic Society. 2016, 36, 14, 101–107 ✹
	Braun, A. Chapter 1: Structure and Transport Properties in Ceramic Fuel Cells (SOFC), Components, and Materials. Structural Characterization Techniques: Advances and applications in Clean Energy. 2016, 1–57
	Braun, A./Diale, M./Huthwelker, T./van Bokhoven, J. A. International Exploratory Workshop on Catalysis, Photoelectrochemistry, and X-ray Spectroscopy for Renewable Energy. Synchrotron Radiation News. 2016, 29, 1, 14–16
	Braun, A./Gaillard, N./Miller, E. L./Wang, H. Advanced Materials and Structures for Solar Fuels: Introduction. Journal of Materials Research. 2016, 31, 11, 1545–1546 ✹
	Braun, A./Hu, Y./Boudoire, F./Bora, D. K./Sarma, D. D./Grätzel, M./Eggleston, C. M. The electronic, chemical and electrocatalytic processes and intermediates on iron oxide surfaces during photoelectrochemical water splitting. Catalysis Today. 2016, 72–81 ✹
	Braun, A./Nordlund, D./Song, S. -W/Huang, T-W/Sokaras, D./Liu, X./Yang, W./Weng, T. -C/Liu, Z. Hard X-rays in–Soft X-rays out: An operando piggyback view deep into a charging lithium ion battery with X-ray Raman spectroscopy. Journal of Electron Spectroscopy and Related Phenomena. 2015, 200, 257–263 ✹
	Bull, L./Toth, R./Stone, C./De Lacy Costello, B./Adamatzky, A. Light-Sensitive Belousov–Zhabotinsky Computing Through Simulated Evolution. Advances in Unconventional Computing. 2016, 23, 199–212

Dalcanale, F./Grossenbacher, J./Blugan, G./Gullo, M. R./Brugger, J./Tevaearai, H./Graule, T./Kuebler, J.
Rapid carbon nanotubes suspension in organic solvents using organosilicon polymers. Journal of colloid and interface science. 2016, 470, 123–131 ✹

Debras, C./Liu, Y./van Garderen, N./Minisini, B./Graule, T./Clemens, F. J.
Development of granular materials for fluidized bed process: measuring attrition resistance with a horizontal ball milling device and its mathematical description. Powder Technology. 2016, 288, 157–163 ✹

Fleischhauer, F.
On the strength and failure of an electrolyte supported solid oxide fuel cell. 2016

Gędziorowski, B./Tobola, J./Braun, A./Molenda, J.
Impact of crystal structure singularity on transport and electrochemical properties of Lix(LiyFezV1−y−z)O2 — electrode material for lithium batteries. Functional Materials Letters. 2016, 9, 4, 1641006 (12pp) ■

Gorjan, L./Boretius, M./Blugan, G./Gili, F./Mangherini, D./Lizarralde, X./Ferraris, M./Graule, T./Igartua, A./Mendoza, G./Igartua, A.
Ceramic protection plates brazed to aluminum brake discs. Ceramics International. 2016, 42, 14, 15739–15746 ✹

Hagemann, H./Lovy, D./Yoon, S./Pokrant, S./Gartmann, N./Walfort, B./Bierwagen, J.
Wavelength dependent loading of traps in the persistent phosphor SrAl2O4:Eu2+, Dy3+. Journal of Luminescence. 2016, 170, Part 1, 299–304 (joint paper) ✹

Hu, Y./Boudoire, F./Herrmann-Geppert, I./Bogdanoff, P./Tsekouras, G./Mun, B. S./Fortunato, G./Grätzel, M./Braun, A.
Molecular Origin and Electrochemical Influence of Capacitive Surface States on Iron Oxide Photoanodes. Journal of Physical Chemistry C. 2016, 120, 6, 3250–6258 (joint paper) ✹

Jiang, B./Blugan, G./Sturzenegger, P. N./Gonzenbach, U. T./Misson, M./Thornberry, J./Stenerud, R./Cartlidge, D./Kuebler, J.
Ceramic Spheres—A Novel Solution to Deep Sea Buoyancy Modules. Materials. 2016, 9, 7, 529 (13 pp) ■

Klimkevicius, V./Makuska, R./Graule, T.
Rheology of titania based ceramic nanodispersions stabilized by cationic comb copolymers. Applied Rheology. 2016, 26, 15199 (9 pp) ■

Kozielski, L./Adamczyk, M./Feliksik, K./Bochenek, D./Clemens, F.
PLZT microfibers technology optimization. Archives of Metallurgy and Materials. 2016, 61, 3, 1471–1476 ■

Kubrin, R./Graule, T.
Modelling of the luminescent properties of nanophosphor coatings with different porosity. Optics and Spectroscopy. 2016, 121, 4, 553–559 ✹

Kulka, A./Świerczek, K./Walczak, K./Braun, A./Molenda, J.
Correlation between transport properties and lithium extraction/insertion mechanism in Fe-site substituted phosphoolivine . Solid State Ionics. 2015, 288, 184–192 ✹

Lugovy, M./Slyunyayev, V./Orlovskaya, N./Mitrentsis, E./Aneziris, C. G./Graule, T./Kuebler, J.
Temperature dependence of elastic properties of ZrB2–SiC composites. Ceramics International. 2016, 42, 2, Part A, 2439–2445 ✹

Lugovy, M./Slyunyayev, V./Orlovskaya, N./Reece, M./Graule, T./Kuebler, J.
Cyclic fatigue effect in particulate ceramic composites. Journal of the European Ceramic Society. 2016, 36, 14, 3257–3266 ✹

Lusiola, T./Clemens, F.
Fabrication of One-Dimensional Ferroelectric Nano- and Microstructures by Different Spinning Techniques and Their Characterization. Nanoscale Ferroelectrics and Multiferroics: Key Processing and Characterization Issues, and Nanoscale Effects, Volume I & II. 2016, 9, 232–268

Maabong, K./Hu, Y./Braun, A./Machatine, A. G. J./Diale, M.
Influence of anodization time on the surface modifications on α-Fe2O3 photoanode upon anodization. Journal of Materials Research. 2016, 31, 11, 1580–1587 ✹

Maabong, K./Machatine, A. G./Hu, Y./Braun, A./Nambala, F. J./Diale, M.
Morphology, structural and optical properties of iron oxide thin film photoanodes in photoelectrochemical cell: Effect of electrochemical oxidation. Physica B: Condensed Matter. 2016, 480, 91–94 ✹

Melnykowycz, M./Tschudin, M./Clemens, F.
Piezoresistive Soft Condensed Matter Sensor for Body-Mounted Vital Function applications. Sensors. 2016, 16, 3, 326 ■

Michálek, M./Tewari, A./Blugan, G./Bowen, P./Hofmann, H./Graule, T./Kuebler, J.
New approach to low thermal conductivity of thermal barrier protection with improved mechanical integrity. Ceramics International. 2016, 42, 6, 6817–6824 ✹

Michálková, M./Michálek, M./Galusek, D./Blugan, G./Kuebler, J./Šajgalík, P.
Separation of CNF agglomerates from a ceramic suspension by spray drying technique. Ceramics International. 2016, 42, 14, 15787–15792 ✹

Michalow-Mauke, K. A./Lu, Y./Kowalski, K./Graule, T./Nachtegaal, T./Kröcher, O./Ferri, D.
Flame-Made WO3/CeOx-TiO2Catalysts for Selective Catalytic Reduction of NOxby NH3. ACS Catalysis. 2015, 5, 10, 5657–5672 (joint paper) ■

Mohammadi, M./Alizadeh, P./Clemens, F. J.
Effect of using different precursors on electrospinning of CaCu3Ti4O12. Ceramics International. 2016, 42, 4, 4690–4699 ✹

High Performance Ceramics	**Mohammadi, M./P. Alizadeh, P./F.J. Clemens, F. J.** Effect of SiO2 on sintering and dielectric properties of CaCu3Ti4O12 nanofibers. Journal of Alloys and Compounds. 2016, 688, 270–279 ✸
	Ramachandran, D. K./Søgaard, M./Clemens, F./Sudireddy, B. R./Kaiser, A. Low cost porous MgO substrates for oxygen transport membranes. Materials Letters. 2016, 169, 254–256 ✸
	Regonini, D./Groff, A./Sorarù, G. D./Clemens, F. J. Suppressing Deep Traps in Self-Organized TiO2 Nanotubes by Nb Doping and Optimized Water Content. Journal of the Electrochemical Society. 2016, 163, 3, H243–H251 ✸
	Schabikowski, M./Zalewska, M./Kata, D./Graule, T. The effect of CuO coatings on the electrokinetic properties of stone wool fibres determined by streaming potential measurements. Ceramics International. 2016, 42, 12, 13944–13951 ✸
	Suzuno, K./Ueyama, D./Branicki, M./Tóth, R./Braun, A./Lagzi, I. Marangoni Flow Driven Maze Solving. Advances in Unconventional Computing. 2016, 23, 237–243
	Tóth, R./Walliser, R. M./Lagzi, I./Bodoire, F./Düggelin, M./Braun, A./Housecroft, C. E./Constable, E. C. Probing the mystery of Liesegang band formation: revealing the origin of self-organized dual-frequency micro and nanoparticle arrays. Soft Matter. 2016, 12, 40, 8367–8374 ✸
	Tóth, R./Walliser, R. M./Murray, N. S./Bora, D. K./Braun, A./Fortunato, G./Housecroft, C. E./Constable, E. C. A self-assembled, multicomponent water oxidation device. Chemical Communications. 2016, 52, 14, 2940–2943 (joint paper) ✸
	Walliser, R. M./Tóth, R./Lagzi, I./Mathys, D./Marot, L./Braun, A./Housecroft, C. E./Constable, E. C. Understanding the formation of aligned, linear arrays of Ag nanoparticles. RSC Advances. 2016, 6, 34, 28388–28392 ■
	Wang, J. -J/Hu, Y./Toth, R./Fortunato, G./Braun, A. A facile nonpolar organic solution process of a nanostructured hematite photoanode with high efficiency and stability for water splitting. Journal of Materials Chemistry A: Materials for Energy and Sustainability. 2016, 4, 8, 2821–2825 ✸
	Zare-Eelanjegh, E./Bora, D. K./Rupper, P./Schrantz, K./Thöny-Meyer, L./Maniura-Weber, K./Richter, M./Faccio, G. Affinity-Driven Immobilization of Proteins to Hematite Nanoparticles. ACS Applied Materials & Interfaces. 2016, 8, 31, 20432–20439 (joint paper) ■
Joining Technologies and Corrosion	**Akbari, M./Buhl, S./Leinenbach, C./Wegener, K.** A new value for Johnson Cook damage limit criterion in machining with large negative rake angle as basis for understanding of grinding. Journal of Materials Processing Technology. 2016, 234, 58–71 (joint paper) ■
	Cancellieri, C./Mishchenko, A. S./Aschauer, U./Filippetti, A./Faber, C./Barišić, O. S./Rogalev, V. A./Schmitt, T./Nagaosa, N./Strocov, V. N. Polaronic metal state at the LaAlO3/SrTiO3 interface. Nature Communications. 2016, 7, Article number 10386 (7 pp) ✸
	Cancellieri, C./Moszner, F./Chiodi, M./Yoon, S./Janczak-Rusch, J./Jeurgens, L. P. H. The effect of thermal treatment on the stress state and evolving microstructure of Cu/W nano-multilayers: Journal of Applied Physics. 2016, 120, 19, Article number 195107 (9pp.) ✸
	Chiodi, M./Cancellieri, C./Moszner, F./Mariusz Andrzejczuk, M./Janczak-Rusch, J./Jeurgens, L. P. H. Massive Ag migration through metal/ceramic nano-multilayers: an interplay between temperature, stress-relaxation and oxygen-enhanced mass transport. Journal of Materials Chemistry C. 2016, 4, 22, 4927–4938 ✸
	Delsante, S./Borzone, G./Novakovic, R./Piazza, D./Pigozzi, G./Janczak-Rusch, J./Pilloni, M./Ennas, G. Synthesis and thermodynamics of Ag–Cu nanoparticles. Physical Chemistry Chemical Physics. 2015, 17, 42, 28387–28393 ✸
	Faller, M. Untersuchung eines gebrochenen Kandelabers aus Aluminium. 3-Länder-Korrosionstagung «Leichtbau – Eine Notwendigkeit – Korrosion ein wichtiger Aspekt». 2016
	Geldmacher, T. Surface functionalizing/properties of supersaturated Al-Si alloy layers. 2016, 63 pp.
	Huber, L./Ruch, P./Hauert, R./Matam, S. K./Saucke, G./Yoon, S./Zhang, Y./Koebel, M. M. Water sorption behavior of physically and chemically activated monolithic nitrogen doped carbon for adsorption cooling. RSC Advances. 2016, 6, 84, 80729–80738 (joint paper) ■
	Huber, L./Ruch, P./Hauert, R./Saucke, G./Matam, S. K./Michel, B./Koebel, M. M. Monolithic nitrogen-doped carbon as a water sorbent for high-performance adsorption cooling. RSC Advances. 2016, 6, 30, 25267–25278 (joint paper) ■
	Janczak-Rusch, J. Im Wettlauf gegen die höchsten Produktanforderungen: Die neuesten Entwicklungen in der Löttechnologie: Schweisstechnik. 2016, 04, 8–17
	Kaptay, G./Janczak-Rusch, J./Jeurgens, L. P. H. Melting Point Depression and Fast Diffusion in Nanostructured Brazing Fillers Confined Between Barrier Nanolayers. Journal of Materials Engineering and Performance. 2016, 25, 8, 3275–3284 ■

Joining Technologies and Corrosion	**Kenel, C./Grolimund, D./Fife, J. L./Samson, V. A./Van Petegem, S./Van Swygenhoven, H./Leinenbach, C.** Combined in situ synchrotron micro X-ray diffraction and high-speed imaging on rapidly heated and solidified Ti–48Al under additive manufacturing conditions. Scripta Materialia. 2016, 114, 117–120 (joint paper) ✹
	Kenel, C./Leinenbach, C. Influence of Nb and Mo on microstructure formation of rapidly solidified ternary Ti–Al-(Nb, Mo) alloys. Intermetallics. 2016, 69, 82–89 (joint paper) ✹
	Kenel, C./Schloth, P./Van Petegem, S./Fife, J. L./Grolimund, D./Menzel, A./Van Swygenhoven, H./Leinenbach, C. In Situ Synchrotron X-Ray Diffraction and Small Angle X-Ray Scattering Studies on Rapidly Heated and Cooled Ti-Al and Al-Cu-Mg Alloys Using Laser-Based Heating. JOM. 2016, 68, 3, 978–984 (joint paper) ✹
	Koster, M./Lis, A./Lee, W. J./Kenel, C./Leinenbach, C. Influence of elastic–plastic base material properties on the fatigue and cyclic deformation behavior of brazed steel joints. International Journal of Fatigue. 2016, 82, Part 1, 49–59 (joint paper) ✹
	Larrazábal, G. O./Martín, A. J./Mitchell, S./Hauert, R./Pérez-Ramírez, J. Enhanced Reduction of CO2 to CO over Cu–In Electrocatalysts: Catalyst Evolution Is the Key. ACS Catalysis. 2016, 6, 9, 6265–6274 ■
	Larrazábal, G. O./Martín, A. J./Mitchell, S./Hauert, R./Pérez-Ramírez, J. Synergistic effects in silver–indium electrocatalysts for carbon dioxide reduction. Journal of Catalysis. 2016, 343, 266–277 ✹
	Lee, W. J./Partovi-Nia, R./Suter, T./Leinenbach, C. Electrochemical characterization and corrosion behavior of an Fe-Mn-Si shape memory alloy in simulated concrete pore solutions. Materials and Corrosion – Werkstoffe und Korrosion. 2016, 67, 8, 839–846 (joint paper) ✹
	Leinenbach, C./Weyrich, N./Stacher, M./Richter, K. W. Reactive phase formation and isothermal solidification in the Ni/Au-18.6Si/Ni layer system. Journal of Alloys and Compounds. 2016, 687, 7–16 (joint paper) ✹
	Lin, R./Amrute, A. P./Krumeich, F./Lázár, K./Hauert, R./Yulikove, M./Pérez-Ramírez, J. Phase-controlled synthesis of iron phosphates via phosphation of β-FeOOH nanorods. CrystEngComm. 2016, 18, 18, 3174–3185 ✹
	Lis, A./Kenel, C./Leinenbach, C. Characteristics of Reactive Ni3Sn4 Formation and Growth in Ni-Sn Interlayer Systems. Metallurgical and Materials Transactions A. 2016, 47, 6, 2596–2608 (joint paper) ✹
	Martin, O./Martín, A. J./Mondelli, C./Mitchell, S./Segawa, T. F./Hauert, R./Drouilly, C./Curulla-Ferré, D./Pérez-Ramírez, J. Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO2 Hydrogenation. Angewandte Chemie International Edition. 2016, 55, 21, 6261–6265 ✹
	Moszner, F./Cancellieri, C./Chiodi, M./Yoon, S./Ariosa, D./Janczak-Rusch, J./Jeurgens, L. P. H. Thermal stability of Cu/W nano-multilayers. Acta materialia. 2016, 345–353 ✹
	Peli, S./Cavaliere, E./Benetti, G./Gandolfi, M./Chiodi, M./Cancellieri, C./Giannetti, C./Ferrini, G./Gavioli, L./Banfi, F. Mechanical Properties of Ag Nanoparticle Thin Films Synthesized by Supersonic Cluster Beam Deposition. Journal of Physical Chemistry C. 2016, 120, 8, 4673–4681 ✹
	Senn, M./Leber, H. J./Tuchschmid, M./Rizvic, N. Blechblasinstrumentenbau in Frankreich im 19. Jh.: Analysen von Legierung und Struktur des Messings zugunsten eines historisch informierten Instrumentenbaus. Romantic Brass. Französische Hornpraxis und historisch informierter Blechblasinstrumentenbau. Symposium 2. 2016, 398–419 (joint paper)
	Tao, Y./Hauert, R./Degen, C. L. Exclusively Gas-Phase Passivation of Native Oxide-Free Silicon(100) and Silicon(111) Surfaces. ACS Applied Materials & Interfaces. 2016, 8, 20, 13157–13165 ✹
	Vetushka, A./Bernard, L./Guseva, O./Bastl, Z./Plocek, J./Tomandl, I./Fejfar, A./Baše, T./Schmutz, P. Adsorption of oriented carborane dipoles on a silver surface. Physica Status Solidi B. 2016, 253, 3, 591–600 (joint paper) ✹
	Wang, T./Ivas, T./Lee, W./Leinenbach, C./Zhang, J. Relief of the residual stresses in Si3N4/Invar joints by multi-layered braze structure – Experiments and simulation. Ceramics International. 2016, 42, 4, 7080–7087 (joint paper) ✹
	Wang, T./Liu, C./Leinenbach, C./Zhang, J. Microstructure and strengthening mechanism of Si3N4/Invar joint brazed with TiNp-doped filler. Materials Science & Engineering A. 2016, 650, 469–477 (joint paper) ✹
	Weller, K./Suter, T./Wang, Z. M./Jeurgens, L. P. H./Mittemeijer, E. J. The effect of pre-oxidation treatment on the corrosion behavior of amorphous Al1–xZrx solid-solution alloys. Electrochimica Acta. 2016, 188, 31–39 ✹
	Weller, K./Wang, Z. M./Jeurgens, L. P. H./Mittemeijer, E. J. Oxidation kinetics of amorphous AlxZr1–x alloys. Acta materialia. 2016, 103, 311–321 ✹
Mechanics of Materials and Nanostructures	**Best, J. P./Zechner, J./Wheeler, J. M./Schoeppner, R./Morstein, M./Michler, J.** Small-scale fracture toughness of ceramic thin films: the effects of specimen geometry, ion beam notching and high temperature on chromium nitride toughness evaluation. Philosophical Magazine. 2016, 96, 32–34, 3552–3569 ✹

Mechanics of Materials and Nanostructures	**Bissig, B./Guerra-Nurez, C./Carron, R./Nishiwaki, S./La Mattina, F./Pianezzi, F./Losio, P. A./Avancini, E./Reinhard, P./Haass, S. G./Lingg, M./Feurer, T./Utke, I./Buecheler, S./Tiwari, A. N.** Surface passivation for reliable measurement of bulk electronic properties of heterojunction devices. Small. 2016, 12, 38, 5339–5346 (joint paper) ✸
	Britton, T. B./J. Jiang, J./Guo, Y./Vilalta-Clemente, A./Wallis, D./Hansen, L. N./Winkelmann, A./Wilkinson, A. J. Tutorial: Crystal orientations and EBSD – Or which way is up?. Materials Characterization. 2016, 117, 113–126 ✸
	Chen, M./Wehrs, J./Michler, J./Wheeler, M. J. High-temperature in situ deformation of GaAs micro-pillars: lithography versus FIB machining. JOM: The Journal of the Minerals, Metals and Materials Society. 2016, 68, 11, 2761–2767 ✸
	Esqué-de los Ojos, D./Best, J. P./Schwiedrzik, J./Morstein, M./Michler, J. A closed-form analytical approach for the simple prediction of hard-coating failure for tooling systems: Surface and Coatings Technology. 2016, 308, 280–288 ✸
	Esqué-de los Ojos, D./Ghisleni, R./Battisti, A./Mohanty, G./Michler, J./Sort, J./Brunner, A. J. Understanding the mechanical behavior of fiber/matrix interfaces during push-in tests by means of finite element simulations and a cohesive zone model. Computational Materials Science. 2016, 117, 330–337 (joint paper) ✸
	Frantz, C./Zhang, Y./Michler, J./Philippe, L. On the growth mechanism of electrodeposited PbTe dendrites. CrystEngComm. 2016, 18, 13, 2319–2326 ✸
	Gamcová, J./Mohanty, G./Michalik, Š./Wehrs, J./Bednarčík, J./Krywka, C./Breguet, J. M./Michler, J./Franz, H. Mapping strain fields induced in Zr-based bulk metallic glasses during in-situ nanoindentation by X-ray nanodiffraction. Applied Physics Letters. 2016, 108, 3, Article number 031907 (4 pp) ✸
	Guo, Y./Schwiedrzik, J./Michler, J./Maeder, X. On the nucleation and growth of {1122} twin in commercial purity titanium: In situ investigation of the local stress field and dislocation density distribution. Acta materialia. 2016, 120, 292–301 ✸
	Hadada, M./Ashraf, H./Mohanty, G./Sandu, C./Muralt, P. Key-features in processing and microstructure for achieving giant electrostriction in gadolinium doped ceria thin films. Acta materialia. 2016, 118, 1–7 ✸
	Ilari, G. M./Chawla, V./Matam, S./Zhang, Y./Michler, J./Erni, R. Electron energy loss spectroscopy analysis of the interaction of Cr and V with MWCNTs. Micron. 2016, 84, 37–42 (joint paper) ✸
	Kermouche, G./Guillonneau, G./Michler, J./Teisseire, J./Barthel, E. Perfectly plastic flow in silica glass. Acta materialia. 2016, 114, 146–153 ✸
	Kolb, M./Wheeler, J. M./Mathur, H. N./Neumeier, S./Korte-Kerzel, S./Pyczak, F./Michler, J./Göken, M. Local mechanical properties of the (β0+ω0) composite in multiphase titanium aluminides studied with nanoindentation at room and high temperatures. Materials Science and Engineering A. 2016, 665, 135–140 ✸
	Liu, J./Dienel, T./Liu, J./Groening, O./Cai, J./Feng, X./Müllen, K./Ruffieux, P./Fasel, R. Building Pentagons into Graphenic Structures by On-Surface Polymerization and Aromatic Cyclodehydrogenation of Phenyl-Substituted Polycyclic Aromatic Hydrocarbons. Journal of Physical Chemistry C. 2016, 120, 31, 17588–17593 ✸
	Liu, S./Wheeler, J. M./Michler, J./Zeng, X. T./Clegg, W. J. Plastic flow at the theoretical yield stress in ceramic films. Scripta Materialia. 2016, 117, 24–27 ✸
	Lunt, A. J. G./Mohanty, G./Neo, T. K./Michler, J./Korsunsky, A. M. Microscale resolution fracture toughness profiling at the zirconia-porcelain interface in dental prostheses. Proceedings of SPIE. 2015, 9668, Article number 96685S (11 pp)
	Lunt, A. J. G./Mohanty, G./Ying, S./Dluhoš, J./Sui, T./Neo, T. K./Michler, J./Korsunsky, A. M. A comparative transmission electron microscopy, energy dispersive x-ray spectroscopy and spatially resolved micropillar compression study of the yttria partially stabilised zirconia – porcelain interface in dental prosthesis. Thin Solid Films. 2015, 596, 222–232 ✸
	Manzano, C. V./Best, J. P./Schwiedrzik, J. J./Cantarero, A./Michler, J./Philippe, L. The influence of thickness, interpore distance and compositional structure on the optical properties of self-ordered anodic aluminum oxide films. Journal of Materials Chemistry C. 2016, 4, 32, 7658–7666 ✸
	Mieszala, M./Guillonneau, G./Hasegawa, M./Raghavan, R./Wheeler, J. M./Mischler, S./Michler, J./Philippe, L. Orientation-dependent mechanical behaviour of electrodeposited copper with nanoscale twins. Nanoscale. 2016, 8, 35, 15999–16004 ✸
	Mirzaali, M. J./Schwiedrzik, J. J./Thaiwichai, S./Best, J. P./Michler, J./Zysset, P. K./Wolfram, U. Mechanical properties of cortical bone and their relationships with age, gender, composition and microindentation properties in the elderly. Bone. 2016, 93, 196–211 ✸
	Mohanty, G./Wehrs, J./Boyce, B. L./Taylor, A./Hasegawa, M./Philippe, L./Michler, J. Room temperature stress relaxation in nanocrystalline Ni measured by micropillar compression and miniature tension. Journal of Materials Research. 2016, 31, 8, 1085–1095 ✸
	Nagamani Jaya, B./Wheeler, J. M./Wehrs, J./Best, J. P./Soler, R./Michler, J./Kirchlechner, C./Dehm, G. Microscale fracture behavior of single crystal silicon beams at elevated temperatures. Nano Letters. 2016, 16, 12, 7597–7603 ✸

Mechanics of Materials and Nanostructures	**Nagumothu, K. B./Kallip, K./Leparoux, M./AlOgab, K. A./Maeder, X./Arroyo Rojas Dasilva, Y.** Influence of microstructure and strengthening mechanism of AlMg5–Al2O3 nanocomposites prepared via spark plasma sintering. Materials & Design. 2016, 95, 534–544 (joint paper) ■
	Pichler, M./Pergolesi, D./Landsmann, S./Chawla, V./Michler, J./Döbeli, M./Wokaun, A./Lippert, T. TiN-buffered substrates for photoelectrochemical measurements of oxynitride thin films. Applied Surface Science. 2016, 369, 67–75 (joint paper) ✹
	Proust, V./Bechelany, M. C./Ghisleni, R./Beaufort, M. F./Miele, P./Bernard, S. Polymer-derived Si-C-Ti systems: from titanium nanoparticle-filled polycarbosilanes to dense monolithic multi-phase components with high hardness. Journal of the European Ceramic Society. 2016, 36, 15, 3671–3679 ✹
	Puydinger dos Santos, M. V./Velo, M. F./Domingos, R. D./Zhang, Y./Maeder, X./Guerra-Nuñez, C./Best, J. P./Béron, F./Pirota, K. R./Moshkalev, S./Diniz, J. A./Utke, I. Annealing-based electrical tuning of cobalt–carbon deposits grown by focused-electron-beam-induced deposition: ACS Applied Materials & Interfaces. 2016, 8, 47, 32496–32503 (joint paper) ✹
	Sar, J./Almeida, A./Ghisleni, R./Dessemond, L./Djurado, E. Mechanical behavior of Ce0.9Gd0.1O1.95-La0.6Sr0.4Co0.2Fe0.8O3−δ oxygen electrode with a coral microstructure for solid oxide fuel cell and solid oxide electrolyzer cell. Ceramics International. 2016, 42, 15, 16981–16991 ✹
	Schamel, M./Wheeler, J. M./Niederberger, C./Michler, J./Sologubenko, A./Spolenak, R. Cyclic loading for the characterisation of strain hardening during in situ microcompression experiments. Philosophical Magazine. 2016, 96, 32–34, 3479–3501 ✹
	Schwiedrzik, J./Gross, T./Bina, M./Pretterklieber, M./Zysset, P./Pahr, D. Experimental validation of a nonlinear µFE model based on cohesive-frictional plasticity for trabecular bone. International journal for numerical methods in biomedical engineering. 2016, 32, 4, 12 pp (02739) ■
	Schwiedrzik, J./Raghavan, R./Rüggeberg, M./Hansen, S./Wehrs, J./Adusumalli, R. B./Zimmermann, T./Michler, J. Identification of polymer matrix yield stress in the wood cell wall based on micropillar compression and micromechanical modelling. Philosophical Magazine. 2016, 96, 32–34, 3461–3478 (joint paper) ✹
	Scopece, D./Döbeli, M./Passerone, D./Maeder, X./Neels, A./Widrig, B./Dommann, A./Müller, U./Ramm, J. Silicon etch with chromium ions generated by a filtered or non-filtered cathodic arc discharge. Science and Technology of Advanced Materials. 2016, 17, 1, 20–28 (joint paper) ✹
	Shorubalko, I./Pillatsch, L./Utke, I. Direct–write milling and deposition with noble gases. Helium ion microscopy. 2016, 355–393 (joint paper)
	Talari, M. K./Kishore Babu, N./Kallip, K./Leparoux, M./Koller, R. E./AlOgab, K. A./Maeder, X. Microstructure, mechanical, and impression creep properties of AlMg5–0.5 vol% Al2O3 nanocomposites. Advanced Engineering Materials. 2016, 18, 11, 1958–1966 (joint paper) ■
	Torrents Abad, O./Wheeler, J. M./Michler, J./Schneider, A. S./Arzt, E. Temperature-dependent size effects on the strength of Ta and W micropillars. Acta materialia. 2016, 103, 483–494 ✹
	Treml, R./Kozic, D./Zechner, J./Maeder, X./Sartory, B./Gänser, H. -P/Schöngrundner, R./Michler, J./Brunner, R./Kiener, D. High resolution determination of local residual stress gradients in single- and multilayer thin film systems. Acta materialia. 2016, 103, 616–623 ✹
	Tumbajoy-Spinel, D./Descartes, S./Bergheau, J. -M/Lacaille, V./Guillonneau, G./Michler, J./Kermouche, G. Assessment of mechanical property gradients after impact-based surface treatment: application to pure α-iron. Materials Science and Engineering A. 2016, 667, 189–198 ✹
	Valdesueiro, D./Prabhu, M. K./Guerra-Nunez, C./Suchand Sandeep, C. S./Kinge, S./Siebbeles, L. D. A./de Smet, L. C. P. M./Meesters, G. M. H./Kreutzer, M. T./Houtepen, A. J./van Ommen, J. R. Deposition Mechanism of Aluminum Oxide on Quantum Dot Films at Atmospheric Pressure and Room Temperature. Journal of Physical Chemistry C. 2016, 120, 8, 4266–4275 ✹
	Warneke, J./Rohdenburg, M./Zhang, Y./Orzagh, J./Vaz, A./Utke, I./De Hosson, J. Th M./van Dorp, W. F./Swiderek, P. Role of NH3 in the Electron-Induced Reactions of Adsorbed and Solid Cisplatin. Journal of Physical Chemistry C. 2016, 120, 7, 4112–4120 (joint paper) ✹
	Wheeler, J. M./Armstrong, D. E. J./Heinz, W./Schwaiger, R. High temperature nanoindentation: the state of the art and future challenges. Current opinion in solid state and materials science. 2015, 19, 6, 354–366 ✹
	Wheeler, J. M./Kirchlechner, C./Micha, J. S./Michler, J./Kiener, D. The effect of size on the strength of FCC metals at elevated temperatures: annealed copper. Philosophical Magazine. 2016, 96, 32–34, 3379–3395 ✹
	Wheeler, J. M./Niederberger, C./Raghavan, R./Thompson, G./Weaver, M./Michler, J. Elevated temperature, in situ micromechanical characterization of a high temperature ternary shape memory alloy. JOM: The Journal of the Minerals, Metals and Materials Society. 2015, 67, 12, 2908–2913 ✹
	Wheeler, J. M./Raghavan, R./Wehrs, J./Zhang, Y./Erni, R./Michler, J. approaching the Limits of Strength: Measuring the Uniaxial Compressive Strength of Diamond at Small Scales. Nano Letters. 2016, 16, 1, 812–816 (joint paper) ✹

Mechanics of Materials and Nanostructures	**Wheeler, J. M./Thilly, L./Morel, A./Taylor, A. A./Montagne, A./Ghisleni, R./Michler, J.** The plasticity of indium antimonide: Insights from variable temperature, strain rate jump micro-compression testing. Acta materialia. 2016, 106, 283–289 ✹
	Wolfram, U./Schwiedrzik, J. Post-yield and failure properties of cortical bone. BoneKEy Reports. 2016, 5, 10 pp (Article number: 829)
	Wolfram, U./Schwiedrzik, J.J./Mirzaali, M.J./Burki, A.B./Varga, P./Olivier, C./Peyrin, F./Zusset, P.K. Characterizing microcrack orientation distribution functions in osteonal bone samples. Journal of Microscopy. 2016, 264, 3, 268–281 ✹
	Zhang, Y./Guerra-Nuñez, C./Li, M./Michler, J./Park, H. G./Rossell, M. D./Erni, R./Utke, I. High Conformity and Large Domain Monocrystalline Anatase on Multiwall Carbon Nanotube Core–Shell Nanostructure: Synthesis, Structure, and Interface. Chemistry of Materials. 2016, 28, 10, 3488–3496 (joint paper) ✹
	Zou, Y./Wheeler, J. M./Sologubenko, A. S./Michler, J./Steurer, W./Spolenak, R. Bridging room-temperature and high-temperature plasticity in decagonal Al–Ni–Co quasicrystals by micro-thermomechanical testing. Philosophical Magazine. 2016, 96, 32–34, 3356–3378 ✹
	Zysset, P.K./Schwiedrzik, J./Wolfram, U. European Society of Biomechanics S.M. Perren Award 2016: A statistical damage model for bone tissue based on distinct compressive and tensile cracks. Journal of Biomechanics. 2016, 49, 15, 3616–3625 ✹
Nanoscale Materials Science	**Ernst, K. -H** Stereochemical Recognition of Helicenes on Metal Surfaces. Accounts of Chemical Research. 2016, 49, 6, 1182–1190 ✹
	Fujiwara, K./Müller, U./Pratsinis, S. E. Pd Subnano-Clusters on TiO2for Solar-Light Removal of NO. ACS Catalysis. 2016, 6, 3, 1887–1893 ■
	Hong, G./Han, Y./Schutzius, T. M./Wang, Y./Pan, Y./Müller, U./Jie, J./Sharma, C. S./Müller, U./Poulikakos, D. On the mechanism of hydrophilicity of graphene. Nano Letters. 2016, 16, 7, 4447–4453 ✹
	Kang, C./Crockett, R. M./Spencer, N. D. The influence of surface grafting on the growth rate of polymer chains. Polymer Chemistry. 2016, 7, 2, 302–309 ■
	Kato, S./Matam, S. K./Kerger, P./Bernard, L./Battaglia, C./Vogel, D./Rohwerder, M./Züttel, A. The Origin of the Catalytic Activity of a Metal Hydride in CO2 Reduction. Angewandte Chemie. 2016, 55, 30, 6028–6032 (joint paper) ✹
	Kong, D./Zhu, J./Ernst, K. -H Low-Temperature Dissociation of CO2 on a Ni/CeO2(111)/Ru(0001) Model Catalyst. Journal of Physical Chemistry C. 2016, 120, 11, 5980–5987 ✹
	Lehmann, M. M./Fischer, M./Blees, J./Zech, M./Siegwolf, R. T. W./Saurer, M. A novel methylation derivatization method for δ18O analysis of individual carbohydrates by gas chromatography/pyrolysis-isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry. 2016, 30, 1, 221–229 ✹
	Lewin, E./Patscheider, J. Structure and properties of sputter-deposited Al-Sn-N thin films. Journal of Alloys and Compounds. 2016, 682, 42–51 ✹
	Pilet, N./Khikhlovskyi, V./van Breemen, A. J. J. M./Michels, J. J./Kemerink, M./Gelinck, G./Warnicke, P./Bernard, L. Piezoelectricity enhancement of P(VDF/TrFE) by X-ray irradiation. Organic Electronics. 2016, 37, 257–262 ✹
	Scopece, D./Döbeli, M./Passerone, D./Maeder, X./Neels, A./Widrig, B./Dommann, A./Müller, U./Ramm, J. Silicon etch with chromium ions generated by a filtered or non-filtered cathodic arc discharge. Science and Technology of Advanced Materials. 2016, 17, 1, 20–28 (joint paper) ✹
	Stöckl, Q. S./Hsieh, Y. -C/Mairena, A./Wu, Y. T./Ernst, K. -H Aggregation of C70-Fragment Buckybowls on Surfaces: π–H and π–π Bonding in Bowl Up-Side-Down Ensembles. Journal of the American Chemical Society. 2016, 138, 19, 6111–6114 ✹
	Verduci, T./Yang, C. -S/Bernard, L./Lee, G./Boukari, S./Orgiu, E./Samorì, P./Lee, J. -O/Doudin, B. Carbon-Passivated Ni Electrodes for Charge Injection in Organic Semiconductors. Advanced Materials Interfaces. 2016, 3, 6, 1500501 (9 pp) ■
	Vetushka, A./Bernard, L./Guseva, O./Bastl, Z./Plocek, J./Tomandl, I./Fejfar, A./Baše, T./Schmutz, P. Adsorption of oriented carborane dipoles on a silver surface. Physica Status Solidi B. 2016, 253, 3, 591–600 (joint paper) ✹
	Wäckerlin, C./Li, J./Mairena, A./Martin, K./Avarvari, N./Ernst, K. H. Surface-assisted diastereoselective Ullmann coupling of bishelicenes. Chemical Communications. 2016, 52, 86, 12694–12697 ✹
	Xiao, W./Ernst, K. -H/Palotas, K./Zhang, Y./Bruyer, E./Peng, L./Greber, T./Hofer, W. A./Scott, L. T./Fasel, R. Microscopic origin of chiral shape induction in achiral crystals. Nature Chemistry. 2016, 8, 326–330 (joint paper) ✹

nanotech@surfaces	**Adams, D. J./Passerone, D.** Insight into structural phase transitions from the decoupled anharmonic mode approximation. Journal of Physics Condensed Matter. 2016, 28, 30, Article number 305401 (10 pp) (joint paper) ✸
	Agrawal, P./Guo, J./Yu, P./Hébert, C./Passerone, D./Erni, R./Rossell, M. D. Strain-driven oxygen deficiency in multiferroic SrMnO3 thin films. Physical Review B. 2016, 94, 10, Article number 104101 (9 pp) (joint paper) ✸
	Ayan, I./Fairbrother, A./Fuierer, P. A. Vertical orientation of short wires using a monolayer of spheres. Particulate Science and Technology. 2016, 34, 6, 744–753 ■
	Basagni, A./Vasseur, G./Pignedoli, C. A./Vilas-Varela, M./Peña, D./Nicolas, L./Vitali, L./Lobo-Checa, J./de Oteyza, D. G./Sedona, F./Casarin, M./Ortega, J. E./Sambi, M. Tunable Band Alignment with Unperturbed Carrier Mobility of On-Surface Synthesized Organic Semiconducting Wires. ACS Nano. 2016, 10, 2, 2644–2651 ✸
	Büchner, C./Liu, L./Stuckenholz, S./Burson, K. M./Lichtenstein, L./Heyde, M./Gao, H. -J/Freund, H. -J Building block analysis of 2D amorphous networks reveals medium range correlation. Journal of Non-Crystalline Solids. 2016, 435, 40–47 ✸
	Forker, R./Dienel, T./Krause, A./Gruenewald, M./Meissner, M./Kirchhuebel, T./Gröning, O./Fritz, T. Optical transition energies of isolated molecular monomers and weakly interacting two-dimensional aggregates. Physical Review B. 2016, 93, 16, Article number 165426 (9 pp) ✸
	Kawai, S./Benassi, A./Gnecco, E./Söde, H./Pawlak, R./Feng, X./Müllen, K./Passerone, D./Pignedoli, C. A./Ruffieux, P./Fasel, R./Meyer, E. Superlubricity of graphene nanoribbons on gold surfaces. Science. 2016, 351, 957–961 ✸
	Kwolek, E. J./Widmer, R./Gröning, O./Deniz, O./Walen, H./Yuen, C. D./Huang, W./Schlagel, D. L./Wallingford, M./Brundle, C. R./Thiel, P. A. Interaction of oxygen with the (111) surface of NaAu2. Surface Science. 2016, 650, 167–176 ✸
	Mertens, S. F. L./Hemmi, A./Muff, S./Gröning, O./De Feyter, S./Osterwalder, J./Greber, T. Switching stiction and adhesion of a liquid on a solid. Nature. 2016, 534, 676–679 ✸
	Ning, J./Zhang, X./Qin, J./Wang, L./Passerone, D./Ma, M./Liu, R. Origin of distinct hydrogen absorption behavior of Zr2Pd and ZrPd2. International Journal of Hydrogen Energy. 2016, 41, 3, 1736–1743 ✸
	Ruffieux, P./Wang, S./Yang, B./Sánchez-Sánchez, C./Liu, J./Dienel, T./Talirz, L./Shinde, P./Pignedoli, C. A./Passerone, D./Dumslaff, T./Feng, X./Müllen, K./Fasel, R. On-surface synthesis of graphene nanoribbons with zigzag edge topology. Nature. 2016, 531, 489–492 ✸
	Sánchez-Sánchez, C./Dienel, T./Deniz, O./Ruffieux, P./Berger, R./Feng, X./Müllen, K./Fasel, R. Purely Armchair or Partially Chiral: Noncontact Atomic Force Microscopy Characterization of Dibromo-Bianthryl-Based Graphene Nanoribbons Grown on Cu(111). ACS Nano. 2016, 10, 8, 8006–8011 ✸
	Sanchez-Valencia, J. -R/Longtin, R./Rossell, M. D./Gröning, P. Growth Assisted by Glancing Angle Deposition: A New Technique to Fabricate Highly Porous Anisotropic Thin Films. ACS Applied Materials & Interfaces. 2016, 8, 13, 8686–8693 (joint paper) ✸
	Scopece, D./Döbeli, M./Passerone, D./Maeder, X./Neels, A./Widrig, B./Dommann, A./Müller, U./Ramm, J. Silicon etch with chromium ions generated by a filtered or non-filtered cathodic arc discharge. Science and Technology of Advanced Materials. 2016, 17, 1, 20–28 (joint paper) ✸
	Sun, Q./Cai, L./Wang, S./Widmer, R./Ju, H./Zhu, J./Li, L./He, Y./Ruffieux, P./Fasel, R./Xu, W. Bottom-Up Synthesis of Metalated Carbyne. Journal of the American Chemical Society. 2016, 138, 4, 1106–1109 ✸
	Talirz, L./Ruffieux, P./Fasel, R. On-Surface Synthesis of Atomically Precise Graphene Nanoribbons. Advanced Materials. 2016, 28, 29, 6222–6231 ✸
	Talirz, L./Shinde, P./Passerone, D./Pignedoli, C. A. Synthesis of Atomically Precise Graphene-Based Nanostructures: A Simulation Point of View. On-Surface Synthesis: Proceedings of the International Workshop On-Surface Synthesis, École des Houches, Les Houches 25–30 May High Performance Ceramics4. 2016, 12, 237–268
	Verdini, A./Shinde, P./Montanari, G. L./Suran- Brunelli, S. T./Caputo, M./Di Santo, G./Pignedoli, C. A./Floreano, L./Passerone, D./Goldoni, A. Water Formation for the Metalation of Porphyrin Molecules on Oxidized Cu(111). Chemistry-A European journal. 2016, 22, 41, 14672–14677 ✸
	Wang, S./Talirz, L./Pignedoli, C. A./Feng, X./Müllen, K./Fasel, R./Ruffieux, P. Giant edge state splitting at atomically precise graphene zigzag edges. Nature Communications. 2016, 7, Article number 11507 (6 pp) ✸
	Xiao, W./Ernst, K. -H/Palotas, K./Zhang, Y./Bruyer, E./Peng, L./Greber, T./Hofer, W. A./Scott, L. T./Fasel, R. Microscopic origin of chiral shape induction in achiral crystals. Nature Chemistry. 2016, 8, 326–330 (joint paper) ✸

Thin Films and Photovoltaics	**Balazs, D. M./Dirin, D. N./Fang, H. -H/Protesescu, L./Brink, G. H./Kooi, B. J./Kovalenko, M. V./Loi, M. A.** Counterion-mediated ligand exchange for PbS colloidal quantum dot superlattices. ACS Nano. 2015, 9 (12), pp 11951–11959 ✸
	Bertolotti, F./Dirin, D. N./Ibáñez, M./Krumeich, F./Cervellino, A./Frison, R./Voznyy, O./Sargent, E. H./Kovalenko, M. V./Guagliardi, A./Masciocchi, N. Crystal symmetry breaking and vacancies in colloidal lead chalcogenide quantum dots. Nature Materials. 2016, 15, 987–994 ✸
	Bissig, B./Guerra-Nurez, C./Carron, R./Nishiwaki, S./La Mattina, F./Pianezzi, F./Losio, P. A./Avancini, E./Reinhard, P./Haass, S. G./Lingg, M./Feurer, T./Utke, I./Buecheler, S./Tiwari, A. N. Surface passivation for reliable measurement of bulk electronic properties of heterojunction devices. Small. 2016, 12, 38, 5339–5346 (joint paper) ✸
	Bodnarchuk, M. I./Yakunin, S./Piveteau, L./Kovalenko, M. V. Host–guest chemistry for tuning colloidal solubility, self-organization and photoconductivity of inorganic-capped nanocrystals. Nature Communications. 2015, 6, Article number 10142 (8 pp) ✸
	Burn, A./Heger, C./Buecheler, S./Nishiwaki, S./Bremaud, D./Ziltener, R./Krainer, L./Spuehler, G./Romano, V. High throughput P2 laser scribing of Cu(In, Ga)Se2 thin-film solar cells. Proceedings of SPIE. 2016, 9735, Article number 973504 (13 pp)
	Dalmases, M./Ibáñez, M./Torruella, P./Fernàndez-Altable, V./López-Conesa, L./Cadavid, D./Piveteau, L./Nachtegaal, M./Llorca, J./Ruiz-González, M. L./Estradé, S./Peiró, F./Kovalenko, M. V./Cabot, A./Figuerola, A. Synthesis and thermoelectric properties of noble metal ternary chalcogenide systems of Ag–Au–Se in the forms of alloyed nanoparticles and colloidal nanoheterostructures. Chemistry of Materials. 2016, 28, 19, 7017–7028 ✸
	De Roo, J./Ibáñez, M./Geiregat, P./Nedelcu, G./Walravens, W./Maes, J./Martins, J. C./Van Driessche, I./Kovalenko, M. V./Hens, Z. Highly Dynamic Ligand Binding and Light Absorption Coefficient of Cesium Lead Bromide Perovskite Nanocrystals. ACS Nano. 2016, 10, 2, 2071–2081 ✸
	de Weerd, C./Gomez, L./Zhang, H./Buma, W. J./Nedelcu, G./Kovalenko, M. V./Gregorkiewicz, T. Energy transfer between Inorganic perovskite nanocrystals. The Journal of physical chemistry C. 2016, 120, 24, 13310–13315 ✸
	Dirin, D. N./Protesescu, L./Trummer, D./Kochetygov, I. V./Yakunin, S./Krumeich, F./Stadie, N. P./Kovalenko, M. V. Harnessing defect-tolerance at the nanoscale: highly luminescent lead halide perovskite nanocrystals in mesoporous silica matrixes. Nano Letters. 2016, 16, 9, 5866–5874 ✸
	Fu, F./Kranz, L./Yoon, S./Löckinger, J./Jäger, T./Perrenoud, J./Feurer, T./Gretener, C./Bücheler, S./Tiwari, A. N. Controlled growth of PbI2 nanoplates for rapid preparation of CH3NH3PbI3 in planar perovskite solar cells. Physica Status Solidi A. 2015, 212, 12, 2708–2717 (joint paper) ✸
	Fuchs, P./Paracchino, A./Hagendorfer, H./Kranz, L./Geiger, T./Romanyuk, Y. E./Tiwari, A. N./Nüesch, F. Indium-Free PTB7/PC71BM Polymer Solar Cells with Solution-Processed Al:ZnO Electrodes on PET Substrates. International Journal of Photoenergy. 2016, Article number 2047591 (7 pp) (joint paper) ■
	Fuchs, P./Steinhauser, J./Avancini, E./Romanyuk, Y. E./Tiwari, A. N. Evolution of carbon impurities in solution-grown and sputtered Al:ZnO thin films exposed to UV light and damp heat degradation. RSC Advances. 2016, 6, 59, 53768–53776 ■
	Gretener, C./Perrenoud, J./Kranz, L./Cheah, E./Dietrich, M./Buecheler, S./Tiwari, A. N. New perspective on the performance stability of CdTe solar cells. Solar Energy Materials & Solar Cells. 2016, 146, 51–57 ✸
	Guo, H./Fuchs, P./Cabane, E./Michen, B./Hagendorfer, H./Romanyuk, Y. E./Burgert, I. UV-protection of wood surfaces by controlled morphology fine-tuning of ZnO nanostructures. Holzforschung. 2016, 70, 8, 699–708 (joint paper) ✸
	Handick, E./Reinhard, P./Alsmeier, J. -H/Köhler, L./Pianezzi, F./Krause, S./Gorgoi, M./Ikenaga, E./Koch, N./Wilks, R. G./Buecheler, S./Tiwari, A. N./Bär, M. Potassium Postdeposition Treatment-Induced Band Gap Widening at Cu(In, Ga)Se2Surfaces – Reason for Performance Leap? ACS Applied Materials & Interfaces. 2015, 7, 49, 27414–27420 ✸
	Ibáñez, M./Luo, Z./Genç, A./Piveteau, L./Ortega, S./Cadavid, D./Dobrozhan, O./Liu, Y./Nachtegaal, M./Zebarjadi, M./Arbiol, J./Kovalenko, M. V./Cabot, A. High-performance thermoelectric nanocomposites from nanocrystal building blocks. Nature Communications. 2016, 7, Article number 10766 (7 pp) ✸
	Keller, D./Buecheler, S. Reinhard, P./Pianezzi, F./Bissig, B./Carron, R./Hage, F./Ramasse, Q./Erni, R./Tiwari, A. N. Band gap widening at random CIGS grain boundary detected by valence electron energy loss spectroscopy. Applied Physics Letters. 2016, 109, 15, Article number 153103 (4 pp) (joint paper) ✸
	Kitschke, P./Walter, M./Rüffer, T./Lang, H./Kovalenko, M. V./Mehring, M. From molecular germanates to microporous Ge@C via twin polymerization. Dalton Transactions. 2016, 45, 13, 5741–5751 ✸

Thin Films and Photovoltaics	**Kitschke, P./Walter, M./Rüffer, T./Seifert, A./Speck, F./Seyller, T./Spange, S./Lang, H./Auer, A. A./Kovalenko, M. V./Mehring, M.** Porous Ge@C materials via twin polymerization of germanium(ii) salicyl alcoholates for Li-ion batteries. Journal of Materials Chemistry A: Materials for Energy and Sustainability. 2016, 4, 7, 2705–2719 ✹
	Kumar, S./Jagielski, J./Yakunin, S./Rice, P./Chiu, Y. C./Wang, M./Nedelcu, G./Kim, Y./Lin, S./Santos, E. J. G./Kovalenko, M. V./Shih, C. J. Efficient blue electroluminescence using quantum-confined two-dimensional perovskites. ACS Nano. 2016, 10, 10, 9720–9729 ✹
	Kurpiers, J./Balazs, D. M./Paulke, A./Albrecht, S./Lange, I./Protesescu, L./Kovalenko, M. V./Loi, M. A./Neher, D. Free carrier generation and recombination in PbS quantum dot solar cells. Applied Physics Letters. 2016, 108, 10, Article number 103102 (5 pp) ✹
	Lignos, I./Stavrakis, S./Nedelcu, G./Protesescu, L./Demello, A. J./Kovalenko, M. V. Synthesis of Cesium Lead Halide Perovskite Nanocrystals in a Droplet-Based Microfluidic Platform: Fast Parametric Space Mapping. Nano Letters. 2016, 16, 3, 1869–1877 ✹
	Liu, Y./Beyer, A./Hofmann, J./Flisch, A./Sennhauser, U. Reducing volumetric artifacts in computed tomography by cooperative data fusion. International Conference on Combined Digital Optical & Imaging Methods Applied to Mechanical Engineering. 2016, 149–152 (joint paper)
	Liu, Y./Cadavid, D./Ibáñez, M./De Roo, J./Ortega, S./Dobrozhan, O./Kovalenko, M. V./Cabot, A. Colloidal AgSbSe2 nanocrystals: surface analysis, electronic doping and processing into thermoelectric nanomaterials. Journal of Materials Chemistry C: Materials for optical and electronic devices. 2016, 4, 21, 4756–4762 ✹
	Liu, Y./Cadavid, D./Ibáñez, M./Ortega, S./Martí-Sánchez, S./Dobrozhan, O./Kovalenko, M. V./Arbiol, J./Cabot, A. Thermoelectric properties of semiconductor-metal composites produced by particle blending. APL Materials. 2016, 4, 10, 104813 (7 pp) ■
	Löckinger, J./Nishiwaki, S./Fuchs, P./Buecheler, S./Romanyuk, E. Y./Tiwari, A. N. New sulphide precursors for Zn(O, S) buffer layers in Cu(In, Ga)Se2 solar cells for faster reaction kinetics. Journal of Optics. 2016, 18, 8, Article number 084002 (7 pp) ✹
	Márquez, J./Neuschitzer, M./Dimitrievska, M./Gunder, R./Haass, S./Werner, M./Romanyuk, Y. E./Schorr, S./Pearsall, N. M./Forbes, I. Systematic compositional changes and their influence on lattice and optoelectronic properties of Cu2ZnSnSe4 kesterite solar cells. Solar Energy Materials and Solar Cells. 2016, 144, 579–585 ✹
	Meyns, M./Perálvarez, M./Heuer-Jungemann, A./Hertog, W./Ibáñez, M./Nafria, R./Genç, A./Arbiol, J./Kovalenko, M. V./Carreras, J./Cabot, A./Kanaras, A. G. Polymer-enhanced stability of inorganic perovskite nanocrystals and their pplication in Color Conversion LEDs. ACS Applied Materials & Interfaces. 2016, 8, 30, 19579–19586 ✹
	Pavliuk, M. V./Fernandes, D. L. A./El-Zohry, A. M./Abdellah, M./Nedelcu, G./Kovalenko, M. V./Sá, J. Magnetic manipulation of spontaneous emission from inorganic CsPbBr3 perovskites nanocrystals. Advanced Optical Materials. 2016, 4, 12, 2004–2008 ■
	Protesescu, L./Yakunin, S./Bodnarchuk, M. I./Bertolotti, F./Masciocchi, N./Guagliardi, A./Kovalenko, M. V. Monodisperse formamidinium lead bromide nanocrystals with bright and dtable green photoluminescence. Journal of the American Chemical Society. 2016, 138, 43, 14202–14205 ✹
	Protesescu, L./Zünd, T./Bodnarchuk, M. I./Kovalenko, M. V. Air-Stable, Near- to Mid-Infrared Emitting Solids of PbTe/CdTe Core-Shell Colloidal quantum dots. ChemPhysChem. 2016, 17, 12, 670–674 ✹
	Rainò, G./Nedelcu, G./Protesescu, L./Bodnarchuk, M. I./Kovalenko, M. V./Mahrt, R. F./Stöferle, T. Single Cesium Lead Halide Perovskite Nanocrystals at Low Temperature: Fast Single-Photon Emission, Reduced Blinking, and Exciton Fine Structure. ACS Nano. 2016, 10, 2, 2485–2490 ✹
	Rawlence, M./Garbayo, I./Buecheler, S./Rupp, J. L. M. On the chemical stability of post-lithiated garnet Al-stabilized Li7La3Zr2O12 solid state electrolyte thin films. Nanoscale. 2016, 8, 31, 14746–14753 ✹
	Roldán, R./Romanyuk, Y. E. Dynamics in Electrochromic Windows Interpreted with an Extended Logistic Model. Journal of the Electrochemical Society. 2016, 163, 8, E235–E240 ✹
	Sahle, C. J./Kujawski, S./Remhof, A./Yan, Y./Stadie, N. P./Al-Zein, A./Tolan, M./Huotari, S./Krischa, M./Sternemann, C. In situ characterization of the decomposition behavior of Mg(BH4)2 by X-ray Raman scattering spectroscopy. Physical Chemistry Chemical Physics. 2016, 18, 7, 5397–5403 (joint paper) ✹
	Shavel, A./Ibáñez, M./Luo, Z./De Roo, J./Carrete, A./Dimitrievska, M./Genç, A./Meyns, M./Pérez-Rodríguez, A./Kovalenko, M. V./Arbio, J./Cabot, A. Scalable Heating-Up Synthesis of Monodisperse Cu2ZnSnS4Nanocrystals. Chemistry of Materials. 2016, 28, 3, 720–726 ✹

Thin Films and Photovoltaics	**Shulga, A. G./Piveteau, L./Bisri, S. Z./Kovalenko, M. V./Loi, M. A.** Double gate PbS quantum dot field-effect transistors for tuneable electrical characteristics. Advanced Electronic Materials. 2016, 2, 4, 1500467 (8 pp) ■
	Speirs, M. J./Dirin, D. N./Abdu-Aguye, M./Balazs, D. M./Kovalenko, M. V./Loi, M. A. Temperature dependent behaviour of lead sulfide quantum dot solar cells and films. Energy & Environmental Science. 2016, 9, 9, 2916–2924 ✹
	Stechmann, G./Zaefferer, S./Konijnenberg, P./Raabe, D./Gretener, C./Kranz, L./Perrenoud, J./Buecheler, S./Tiwari, A. N. 3-Dimensional microstructural characterization of CdTe absorber layers from CdTe/CdS thin film solar cells. Solar Energy Materials and Solar Cells. 2016, 151, 66–80 ✹
	Tilchin, J./Dirin, D. N./Maikov, G. I./Sashchiuk, A./Kovalenko, M. V./Lifshitz, E. Hydrogen-like wannier–mott excitons in single crystal of methylammonium lead bromide perovskite. ACS Nano. 2016, 10, 6, 6363–6371 ✹
	Vybornyi, O./Yakunina, S./Kovalenko, M. V. Polar-solvent-free colloidal synthesis of highly luminescent alkylammonium lead halide perovskite nanocrystals. Nanoscale. 2016, 8, 12, 6278–6283 ✹
	Walter, M./Doswald, S./Kovalenko, M. V. Inexpensive colloidal SnSb nanoalloys as efficient anode materials for lithium- and sodium-ion batteries. Journal of Materials Chemistry A: Materials for Energy and Sustainability. 2016, 4, 18, 7053–7059 ✹
	Weiss, T. P./Redinger, A./Rey, G./Schwarz, T./Spies, M./Cojocura-Mirédin, O./Choi, P. P./Siebentritt, S. Impact of annealing on electrical properties of Cu2ZnSnSe4 absorber layers. Journal of Applied Physics. 2016, 120, 4, Article number 045703 (8pp) ✹
	Yakunin, S./Dirin, D. N./Shynkarenko, Y./Morad, V./Cherniukh, I./Nazarenko, O./Kreil, D./Nauser, T./Kovalenko, M. V. Detection of gamma photons using solution-grown single crystals of hybrid lead halide perovskites. Nature Photonics. 2016, 10, 585–589 ✹
	Civil and Mechanical Engineering
	Meier, U./Brönnimann, R./Anderegg, P. Two examples of post-tensioned CFRP cables in bridge construction: one in rehabilitation, one in new construction: Proceedings of the Eighth International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016). 2016, 1069–1074 (joint paper)
	Meier, U./Brönnimann, R./Anderegg, P./Terrasi, G. P./Motavalli, M./Czaderski, C. Carbon fiber reinforced composites proved to be very successful in construction during a quarter of a century. ECCM17 – 17th European Conference on Composite Materials. 2016, 8pp– (joint paper)
Applied Wood Materials	**Arnold, M.** Towards improved service life prediction of wood coatings: assessment and quantification of performance effects. PRA's 10th International Woodcoatings Congress 2016. 2016, 10 pp
	Bandera, D./Meyer, V. R./Prevost, D./Zimmermann, T./Boesel, L. F. Polylactide/Montmorillonite Hybrid Latex as a Barrier Coating for Paper applications. Polymers. 2016, 8, 3, 75– (joint paper) ■
	Cabane, E./Keplinger, T./Künniger, T./Merk, V./Burgert, I. Functional lignocellulosic materials prepared by ATRP from a wood scaffold. Scientific s. 2016, 6, 10 pp (Art. . 31287) ✹
	Civardi, C./Schlagenhauf, L./Kaiser, J. P./Hirsch, C./Mucchino, C./Wichser, A./Wick, P./Schwarze, F. W. M. R. Release of copper-amended particles from micronized copper-pressure-treated wood during mechanical abrasion: Journal of Biotechnology. 2016, 14, 77 (10 pp.)–53 (joint paper) ✹
	Civardi, C./Schlagenhauf, L./Kaiser, J.P./Hirsch, C./Mucchino, C./Wichser, A./Wick, P./Schwarze, F.W.M.R. Release of copper-amended particles from micronized copper-pressure-treated wood during mechanical abrasion. Journal of Nanobiotechnology. 2016, 14, 77 (10 pp.) (joint paper) ■
	Civardi, C./Van den Bulcke, J./Schubert, M./Michel, E./Butron, M. I./Boone, M. N./Dierick, M./Van Acker, J./Wick, P./Schwarze, F. W. M. R. Penetration and effectiveness of micronized copper in refractory wood species. Plos One. 2016, 11, 9, e0163124 (14 pp) (joint paper) ■
	Desmarais, G./Sedighi Gilani, M./Vontobel, P./Carmeliet, J./Derome, D. Transport of Polar and Nonpolar Liquids in Softwood Imaged by Neutron Radiography. Transport in Porous Media. 2016, 113, 2, 383–404 (joint paper) ✹
	Fuchs, P./Paracchino, A./Hagendorfer, H./Kranz, L./Geiger, T./Romanyuk, Y. E./Tiwari, A. N./Nüesch, F. Indium-Free PTB7/PC71BM Polymer Solar Cells with Solution-Processed Al:ZnO Electrodes on PET Substrates. International Journal of Photoenergy. 2016, Article number 2047591 (7 pp) (joint paper) ■
	Gilani, M. S./Boone, M. N./Fife, J. L./Zhao, S./Koebel, M. M./Zimmermann, T./Tingaut, P. Structure of cellulose -silica hybrid aerogel at sub-micron scale, studied by synchrotron X-ray tomographic microscopy. Composites Science and Technology. 2016, 124, 71–80 ✹

Applied Wood Materials	**Grüneberger, F./Huch, A./Geiger, T./Zimmermann, T./Tingaut, P.** Fibrillated cellulose in heterophase polymerization of nanoscale poly(methyl methacrylate) spheres. Colloid and Polymer Science. 2016, 294, 9, 1393–1403 ✹
	Guiducci, L./ Razghandi, K./ Bertinetti, L./ Turcaud, S./ Rüggeberg, M./ Weaver, J.C./ Fratzl, P./ Burgert, I./ Dunlo, J.W.C. Honeycomb actuators inspired by the unfolding of ice plant seed capsules: Plos One. 2016, 11, 11, e0163506 (21 pp.) ■
	Guo, H./Fuchs, P./Cabane, E./Michen, B./Hagendorfer, H./Romanyuk, Y. E./Burgert, I. UV-protection of wood surfaces by controlled morphology fine-tuning of ZnO nanostructures. Holzforschung. 2016, 70, 8, 699–708 (joint paper) ✹
	Keplinger, T./Cabane, E./Berg, J. K./Segmehl, J. S./Bock, P./Burgert, I. Smart Hierarchical Bio-Based Materials by Formation of Stimuli-Responsive Hydrogels inside the Microporous Structure of Wood. Advanced Materials Interfaces. 2016, 3, 6, 1600233 (6 pp) ■
	Lee, J. B./dos Santos, S./Antonini, C. Water Touch-and-Bounce from a Soft Viscoelastic Substrate: Wetting, Dewetting, and Rebound on Bitumen. Langmuir. 2016, 32, 32, 8245–8254 ✹
	Mautner, A./Maples, H. A./Sehaqui, H./Zimmermann, T./Perez de Larraya, U./Mathew, A. P./Yan Lai, C./Li, K./Bismarck, B. Nitrate removal from water using a nanopaper ion-exchanger. Environmental Science: Water Research & Technology. 2016, 2, 1, 117–124 ■
	Morris, H./Brodersen, C./Schwarze, F.W.R./Jansen, S. The parenchyma of secondary xylem and Its critical role in tree defense against fungal decay in relation to the CODIT model. Frontiers in Plant Science. 2016, 7, 25, Art. . 1665 (18 pp) ■
	Nindiyasari, F./Griesshaber, E./Zimmermann, T./Manian, A. P./Randow, C./Zehbe, R./Fernandez-Diaz, L./Ziegler, A./Fleck, C./Schmahl, W. W. Characterization and mechanical properties investigation of the cellulose/ gypsum composite. Journal of Composite Materials. 2016, 50(5) 657–672 ■
	Oksmana, K./Aitomäki, Y./Mathew, A. P./Siqueira, G./Zhou, Q./Butylina, S./Tanpichai, S./Zhoua, X./Hooshmand, S. Review of the recent developments in cellulose nanocomposite processing. Composites Part A: Applied Science and Manufacturing. 2016, 83, 2–18 ✹
	Orsolini, P./D'Alvise, T. M./Boi, C./Geiger, T./Caseri, W. R./Zimmermann, T. Nanofibrillated cellulose templated membranes with high permeance: ACS Applied Materials & Interfaces. 2016, 8, 49, 33943–33954 ✹
	Razghandi, K./Turcaud, S./Burgert, I. Hydro-Actuated Plant Devices. Nonlinear Elasticity and Hysteresis : Fluid-Solid Coupling in Porous Media. 2015, 8, 171–200
	Schwiedrzik, J./Raghavan, R./Rüggeberg, M./Hansen, S./Wehrs, J./Adusumalli, R. B./Zimmermann, T./Michler, J. Identification of polymer matrix yield stress in the wood cell wall based on micropillar compression and micromechanical modelling. Philosophical Magazine. 2016, 96, 32–34, 3461–3478 (joint paper) ✹
	Sedighi Gilani, M./Hugi, E./Carl, S./Palma, P./Vontobel, P. Heat Induced Desorption of Moisture in Timber Joints with Fastener During Charring. Fire Technology. 2016, 51, 6, 1433–1445 (joint paper) ■
	Sedighi Gilani, M./Neuenschwander, J./Heeb, M./Furrer, R./Sanabria, S. J./Stoel, B. C./Schwarze, F. W. M. R. Influence of incubation time on the vibration and mechanics of Mycowood. Holzforschung. 2016, 70, 6, 557–565 (joint paper) ✹
	Sedighi Gilani, M./Pflaum, J./Hartmann, S./Kaufmann, R./Baumgartner, M./Schwarze, F. W. M. R. Relationship of vibro-mechanical properties and microstructure of wood and varnish interface in string instruments. Applied Physics A: Materials Science and Processing. 2016, 122, 4, Art. . 260 (11 pp) (joint paper) ✹
	Sedighi Gilani, M./Zhao, S./Gaan, S./Koebel, M. M./Zimmermann, T. Design of a hierarchically structured hybrid material via in situ assembly of a silica aerogel into a wood cellular structure. RSC Advances. 2016, 6, 67, 62825–62832 (joint paper) ■
	Sehaqui, H./Mautner, A./Perez de Larray, U./Pfenninger, N./Tingauta, P./Zimmermann, T. Cationic cellulose nanofibers from waste pulp residues and their nitrate, fluoride, sulphate and phosphate adsorption properties. Carbohydrate Polymers. 2016, 135, 334–340 ✹
	Sehaqui, H./Michen, B./Marty, E./Schaufelberger, L./Zimmermann, T. Functional Cellulose Nanofiber Filters with Enhanced Flux for the Removal of Humic Acid by Adsorption. ACS Sustainable Chemistry & Engineering. 2016, 4, 9, 4582–4590 ■
	Siqueira, G./Oksman, K./Tadokoro, S. K./Mathew, A. P. Re-dispersible carrot nanofibers with high mechanical properties and reinforcing capacity for use in composite materials. Composites Science and Technology. 2016, 123, 49–56 ✹
	Volkmer, T./Noël, M./Arnold, M./Strautmann, J. Analysis of lignin degradation on wood surfaces to create a UV-protecting cellulose rich layer. International Wood Products Journal. 2016, 1–9

Applied Wood Materials	**Yan, Y./Amer, H./Rosenau, T./Zollfrank, C./Dörrstein, J./Jobst, C./Zimmermann, T./Keckes, J./Veigel, S./Gindl-Altmutter, W./Li, J.** Dry, hydrophobic microfibrillated cellulose powder obtained in a simple procedure using alkyl ketene dimer. Cellulose. 2016, 23, 1, 1189–1197 ✹
	Živković, V./Arnold, M./Pandey, K. K./Richter, K./Turkulin, H. Spectral sensitivity in the photodegradation of fir wood (Abies alba Mill.) surfaces: correspondence of physical and chemical changes in natural weathering. Wood Science and Technology. 2016, 14 pp ✹
	Zolliker, P./Rueggeberg, M./Hack, E. THz birefringence in wood: polarization dependent frequency gaps in THz spectra. IRMMW-THz 2016 41st International Conference on Infrared, Millimeter and Terahertz Waves. 2016, 2 pp (joint paper)
Building Energy Materials and Components	**Carboni, M./Carravetta, M./Zhang, X. L./Stulz, E.** Efficient NIR light blockage with matrix embedded silver nanoprism thin films for energy saving window coating. Journal of Materials Chemistry C: Materials for optical and electronic devices. 2016, 4, 8, 1584–1588 ✹
	Galmarini, S./Mohamed, A. K./Bowen, P. Atomistic simulations of silicate species interaction with portlandite surfaces. Journal of Physical Chemistry C. 2016, 120, 39, 22407–22413 ✹
	Huber, L./Ruch, P./Hauert, R./Matam, S. K./Saucke, G./Yoon, S./Zhang, Y./Koebel, M. M. Water sorption behavior of physically and chemically activated monolithic nitrogen doped carbon for adsorption cooling. RSC Advances. 2016, 6, 84, 80729–80738 (joint paper) ■
	Huber, L./Ruch, P./Hauert, R./Saucke, G./Matam, S. K./Michel, B./Koebel, M. M. Monolithic nitrogen-doped carbon as a water sorbent for high-performance adsorption cooling. RSC Advances. 2016, 6, 30, 25267–25278 (joint paper) ■
	Koebel, M. M./Huber, L./Zhao, S./Malfait, W. J. Breakthroughs in cost-effective, scalable production of superinsulating, ambient-dried silica aerogel and silica-biopolymer hybrid aerogels: from laboratory to pilot scale. Journal of sol-gel science and technology. 2016, 79, 2, 308–318 ✹
	Koebel, M.M./Malfait, W.J. Mesoporous, colloidal 3D materials – trends and opportunities in silica aerogel: Chimia. 2016, 70, 11, 817 (1 pp.) ✹
	Malfait, W. J./Klemenčič, R./Lang, B./Rist, T./Klučka, M./Zajacz, Z./Koebel, M. M. Optimized solder alloy for glass-to-metal joints by simultaneous soldering and anodic bonding. Journal of Materials Processing Technology. 2016, 236, 176–182 ■
	Martinez, R. G./Goiti, E./Reichenauer, G./Zhao, S./Koebel, M./Barrio, A. Thermal assessment of ambient pressure dried silica aerogel composite boards at laboratory and field scale. Energy and Buildings. 2016, 128, 111–118 ■
	Sedighi Gilani, M./Zhao, S./Gaan, S./Koebel, M. M./Zimmermann, T. Design of a hierarchically structured hybrid material via in situ assembly of a silica aerogel into a wood cellular structure. RSC Advances. 2016, 6, 67, 62825–62832 (joint paper) ■
	Stahl, T./Wakili, K. G./Vonbank, R./Brunner, S. Vergleichende Untersuchungen zur energetischen Sanierung von Fachwerkwänden mit Aerogeldämmputz als Innendämmung. Bauphysik. 2016, 38, 5, 274–284 (joint paper) ■
	Wang, Z./Su, H./Zhao, S./Zhao, N. Influence of phase change material on mechanical and thermal properties of clay geopolymer mortar. Construction and Building Materials. 2016, 120, 329–334 ■
	Wernery, J./Brunner, S./Koebel, M. Aerogel-Hochleistungsdämmstoffe: Systeme und Anwendungen. 19. Status-Seminar «Forschen für den Bau im Kontext von Energie und Umwelt». 2016, 16 pp
	Wurzbacher, J. A./Gebald, C./Brunner, S./Steinfeld, A. Heat and mass transfer of temperature-vacuum swing desorption for CO2 capture from air . Chemical Engineering Journal. 2016, 283, 1329–1338 ✹
	Zhao, S./Malfai, W. J./Jeong, E./Fischer, B./Zhang, Y./Xu‖, H./Angelica, E./RisenJr., W. M./Suggs, J. W./Koebel, M. M. Facile one-pot synthesis of mechanically robust biopolymer–silica nanocomposite aerogel by cogelation of silicic acid with chitosan in aqueous media. ACS Sustainable Chemistry & Engineering. 2016, 4, 10, 5674–5683 (joint paper) ■
	Zhu P./Zheng M./Zhao S./Wu J./Xu H. A Novel Environmental Route to Ambient Pressure Dried Thermal Insulating Silica Aerogel via Recycled Coal Gangue. Advances in Materials Science and Engineering. 2016, Article ID 9831515 (9 pp) ■
Center for Synergetic Structures	**Roekens, J./De Laet, L./Mollaert, M./Luchsinger, R.** Experimental and numerical investigation of a tensairity arch. Thin-Walled Structures. 2016, 105, 112–120 ■
	Alahrache, S./Winnefeld, F./Champenois, J. -B/Hesselbarth, F./Lothenbach, B. Chemical activation of hybrid binders based on siliceous fly ash and Portland cement. Cement and Concrete Composites. 2016, 66, 10–23 ■
	Cavalli, M. C./Griffa, M./Bressi, S./Partl, M. N./Tebaldi, G./Poulikakos, L. D. Multiscale imaging and characterization of the effect of mixing temperature on asphalt concrete containing recycled components. Journal of Microscopy. 2016, 264, 1, 22–33 (joint paper) ✹

Center for Synergetic Structures	**Dähn, R./Arakcheeva, A./Schaub, Ph/Pattison, P./Chapuis, G./Grolimund, D./Wieland, E./Leemann, A.** application of micro X-ray diffraction to investigate the reaction products formed by the alkali–silica reaction in concrete structures. Cement and Concrete Research. 2016, 79, 49–56 ✹
	Dauzeres, A./Achiedo, G./Nied, D./Bernard, E./Alahrache, S./Lothenbach, B. Magnesium perturbation in low-pH concretes placed in clayey environment—solid characterizations and modeling. Cement and Concrete Research. 2016, 79, 137–150 ✹
	Di Bella, C. Drying shrinkage of cementitious materials at early age. 2016,
Concrete / Construction Chemistry	**Di Bella, C./Griffa, M./Ulrich, T. J./Lura, P.** Early-age elastic properties of cement-based materials as a function of decreasing moisture content. Cement and Concrete Research. 2016, 89, 87–96 (joint paper) ✹
	Durdziński, P. T./Haha, M. B./Bernal, S. A./De Belie, N./Gruyaert, E./Lothenbach, B./Provis, J. L./Schöler, A./Stabler, C./Tan, Z./Vollpracht, A./Winnefeld, F./Zaccardi, Y. V./Zając, M./Scrivener, K. L. Outcome of the RILEM round robin on degree of reaction of slage and fly ask in composite cements. International RILEM Conference on Materials, Systems and Structures in Civil Engineering 2016 Segment on Concrete with Supplementary Cementitious Materials. 2016, 293–297
	Fang, X. A fundamental research on cold mix asphalt modified with cementitious materials. 149 pp. (joint paper)
	Fang, X./Garcia, A./Winnefeld, F./Partl, M. N./Lura, P. Impact of rapid-hardening cements on mechanical properties of cement bitumen emulsion asphalt. Materials and Structures. 2016, 49, 1, 487–498 (joint paper) ■
	Fang, X./Garcia-Hernandez, A./Winnefeld, F./Lura, P. Influence of Cement on Rheology and Stability of Rosin Emulsified Anionic Bitumen Emulsion. Journal of Materials in Civil Engineering. 2016, 28, 5, 04015199 (12 pp) ■
	Fang, X./Winnefeld, F./Lura, P. Precipitation of anionic emulsifier with ordinary Portland cement. Journal of colloid and interface science. 2016, 469, 98–105 ✹
	Fernández, Á./Alonso, M. C./García-Calvo, J. L./Lothenbach, B. Influence of the synergy between mineral additions and Portland cement in the physical-mechanical properties of ternary binders. Materiales de construccion. 2016, 66, 324, e097 (12 pp) ■
	Ghourchian, S./Wyrzykowski, M./Lura, P. The bleeding test: a simple method for obtaining the permeability and bulk modulus of fresh concrete. Cement and Concrete Research. 2016, 89, 249–256 ✹
	Gómez-Zambrano, L. Y./Iñiguez-Sánchez, C. A./Lothenbach, B. Microstructure and mechanical properties of composite cements: reactivity of pozzolanic and hydraulic cementitious materials. Alconpat Journal. 2015, 5, 1, 17–28
	Herfort, D./Lothenbach, B. Ternary phase diagrams Applied to hydrated cement. A Practical Guide to Microstructural Analysis of Cementitious Materials. 2016, 11, 485–502
	Kaufmann, J./Winnefeld, F./Lothenbach, B. Effect of high temperatures on the stability of ettringite in calcium sulfoaluminate-based cement pastes. 2nd International Conference on the Chemistry of Construction Materials. 2016, 4 pp
	Kaufmann, J./Winnefeld, F./Lothenbach, B. Stability of ettringite in CSA cement at elevated temperatures. Advances in Cement Research. 2016, 28, 4, 251–261 ■
	L'Hôpital, E./Lothenbach, B./Kulik, D. A./Scrivener, K. Influence of calcium to silica ratio on aluminium uptake in calcium silicate hydrate. Cement and Concrete Research. 2016, 85, 111–121 ✹
	L'Hôpital, E./Lothenbach, B./Kulik, D. A./Scrivener, K./Kulik, D. A. Alkali uptake in calcium alumina silicate hydrate (C-A-S-H). Cement and Concrete Research. 2016, 85, 122–136 ✹
	Landrou, G./Brumaud, C./Winnefeld, F./Flatt, R. J./Habert, G. Lime as an Anti-Plasticizer for Self-Compacting Clay Concrete. Materials. 2016, 9, 5, 249 (13 pp) ■
	Leemann, A./Katayama, T./Fernandes, I./Broekmans, M. A. T. M. Types of alkali–aggregate reactions and the products formed. Proceedings of the Institution of Civil Engineers – Construction Materials. 2016, 169, 3, 128–135
	Li, W./Pour-Ghaz, M./Trtik, P./Wyrzykowski, M./Münch, B./Lura, P./Vontobel, P./Lehmann, E./Weiss, W. J. Using neutron radiography to assess water absorption in air entrained mortar. Construction and Building Materials. 2016, 110, 98–105 ■
	Loser, R./Leemann, A. An accelerated sulfate resistance test for concrete. Materials and Structures. 2016, 49, 8, 3445–3457 ■
	Lothenbach, B./Durdzinski, P./De Weerdt, K. Thermogravimetric analysis. A Practical Guide to Microstructural Analysis of Cementitious Materials. 2016, 5, 177–211

Concrete / Construction Chemistry	**Lothenbach, B./Schöler, A./Zajac, M./Haha, M. B./Winnefeld, F.** Effect of SCMS on hydration kinetcis of portland cements. International RILEM Conference on Materials, Systems and Structures in Civil Engineering 2016 Segment on Concrete with Supplementary Cementitious Materials. 2016, 73–82
	Martin, L. H. J./Leemann, A./Milodowski, A. E./Mäder, U. K./Münch, B./Giroud, N. A natural cement analogue study to understand the long-term behaviour of cements in nuclear waste repositories: Maqarin (Jordan). Applied Geochemistry. 2016, 71, 20–34 ✹
	Nied, D./Enemark-Rasmussen, K./L'Hopital, E./Skibsted, J./Lothenbach, B. Properties of magnesium silicate hydrates (M-S-H). Cement and Concrete Research. 2016, 79, 323–332 ✹
	Schöler, A. Hydration of multi-component cements containing clinker, slag, type-V fly ash and limestone. 2015–
	Scrivener, K./Snellings, R./Lothenbach, B. A Practical Guide to Microstructural Analysis of Cementitious Materials. 2016, 540 pp
	Shi, Z./Geiker, M. R./De Weerdt, K./Lothenbach, B./Kaufmann, J./Ferreiro Garzón, S./Skibsted, J. Chloride resistance of Portland cement – calcined clay – limestone mortars. 2nd International Conference on the Chemistry of Construction Materials. 2016, 4 pp
	Shi, Z./Lothenbach, B./Geiker, M./Kaufmann, J./Leemann, A./Ferreiro, S./Skibsted, J. Experimental studies and thermodynamic modeling of the carbonation of Portland cement, metakaolin and limestone mortars. Cement and Concrete Composites. 2016, 88, 60–72 ■
	Steinbauer, V./Zurbriggen, R./Bühler, T./Kaufmann, J./Herwegh, M. Stronger Hail Storms Require Stronger External Thermal Insulation Composite Systems – The Material Science Behind. Drymix Mortar Year 2016. 2016, 42–47
	Terrasi, G.P./McIntyre, E.R.E./Bisby, L.A./Lämmlein, T.D./Lura, P. Transient thermal tensile behaviour of novel pitch-based ultra-high modulus CFRP tendons: Polymers. 2016, 8, 12, 446 (15 pp.) (joint paper) ■
	Trapote-Barreira, A./Cama, J./Soler, J. M./Lothenbach, B. Degradation of mortar under advective flow: Column experiments and reactive transport modeling. Cement and Concrete Composites. 2016, 81, 81–93 ■
	Vollpracht, A./Lothenbach, B./Snellings, R./Haufe, J. Influence of SCM on pore solution composition. International RILEM Conference on Materials, Systems and Structures in Civil Engineering 2016 Segment on Concrete with Supplementary Cementitious Materials. 2016, 309–318
	Vollpracht, A./Lothenbach, B./Snellings, R./Haufe, J. The pore solution of blended cements: a review. Materials and Structures. 2016, 49, 8, 3341–3367 ■
	Wadsö, L./Winnefeld, F./Riding, K./Sandberg, P. Calorimetry. A Practical Guide to Microstructural Analysis of Cementitious Materials. 2016, 2, 37–74
	Weiss, J./Lura, P. Editorial. Materials and Structures. 2016, 49, 4, 1–3 ■
	Wetzig, V./Reinhold, M./Hermann, M./Kaufmann, J. Langzeitverhalten von Kunststofffaserspritzbeton im Untertagebau = Long-term behaviour of plastic fibre reinforced sprayed concrete for tunnels = Comportement à long terme de béton projeté renforcé de fibres plastiques dans l'exploitation souterraine. 2015, Forschungsprojekt FGU High Performance Ceramics0/005_OBF auf Antrag der Arbeitsgruppe Tunnelforschung (AGB), 1546, 105 pp
	Wieland, E./Jakob, A./Tits, J./Lothenbach, B./Kunz, D. Sorption and diffusion studies with low molecular weight organic compounds in cementitious systems. Applied Geochemistry. 2016, 67, 101–117 ✹
	Winnefeld, F./Alahrache, S./Champenois, J. B./Hesselbarth, F./Lothenbach, B. Reactivity of fly ask in the presence of chemical activators. International RILEM Conference on Materials, Systems and Structures in Civil Engineering 2016 Segment on Concrete with Supplementary Cementitious Materials. 2016, 41–50
	Winnefeld, F./Lothenbach, B. Phase equilibria in the system Ca4Al6O12SO4 – Ca2SiO4 – CaSO4 – H2O referring to the hydration of calcium sulfoaluminate cements. RILEM Technical Letters. 2016, 1, 10–16
	Winnefeld, F./Schöler, A./Lothenbach, B. Sample preparation. A Practical Guide to Microstructural Analysis of Cementitious Materials. 2016, 1, 1–35
	Wyrzykowski, M./Lura, P. Effect of relative humidity decrease due to self-desiccation on the hydration kinetics of cement. Cement and Concrete Research. 2016, 85, 75–81 ✹
	Yang, F./Griffa, M./Bonnin, A./Mokso, R./Di Bella, C./Münch, B./Kaufmann, R./Lura, P. Visualization of water drying in porous materials by X-ray phase contrast imaging. Journal of Microscopy. 2016, 261, 1, 88–104 (joint paper) ✹
	Yang, F./Griffa, M./Hipp, A./Derluyn, H./Moonen, P./Kaufmann, R./Boone, M. N./Beckmann, F./Lura, P. Advancing the visualization of pure water transport in porous materials by fast, talbot interferometry-based multi-contrast x-ray micro-tomography. Proceedings of SPIE. 2016, 9967, Article number 99670L (18 pp) (joint paper)

Mechanical Integrity of Energy Systems	**Bachmann, B.J./Bernardi, L./Loosli, C./Marschewski, J./Perrini, M./Ehrbar, M./Ermanni, P./Poulikakos, D./Ferrari, A./Mazza, E.** A novel bioreactor system for the assessment of endothelialization on deformable surfaces: Scientific s. 2016, 6, 38861 (15 pp.) ✹
	Bergamini, A. E./Zündel, M./Flores Parra, E. A./Delpero, T./Ruzzene, M./Ermanni, P. Hybrid dispersive media with controllable wave propagation: A new take on smart materials. Journal of Applied Physics. 2015, 118, 15, Article number 154310 (8 pp.) ✹
	Bircher, K./Ehret, A. E./Mazza, E. Mechanical Characteristics of Bovine Glisson's Capsule as a Model Tissue for Soft Collagenous Membranes. Journal of Biomechanical Engineering. 2016, 138, 8, 081005 (11 pp) ✹
	Delpero, T./Schoenwald, S./Zemp, A./Bergamini, A. Structural engineering of three-dimensional phononic crystals. Journal of Sound and Vibration. 2016, 363, 156–165 (joint paper) ✹
	Frigerio, M./Buehlmann, P. B./Buchheim, J./Holdsworth, S. R./Dinser, S./Franck, Ch M./Papailiou, K./Mazza, E. Analysis of the tensile response of a stranded conductor using a 3D finite element model. International Journal of Mechanical Sciences. 2016, 106, 176–183 ✹
	Holdsworth, S. Creep Resistant Materials for Steam Turbines. Reference Module in Materials Science and Materials Engineering. 2016, 5 pp
	Holdsworth, S. R. Creep-Fatigue Crack Growth in Power Plant Steels. Transactions of the Indian Institute of Metals. 2016, 69, 2, 353–358 ■
	Hopf, R./Bernardi, L./Menze, J./Zündel, M./Mazza, E./Ehret, A. E. Experimental and theoretical analyses of the age-dependent large-strain behavior of Sylgard. Journal of the Mechanical Behavior of Biomedical Materials. 2016, 60, 425–437 ■
	Kalyanasundaram, V./Holdsworth, S. R. Prediction of Forward Creep Behaviour from Stress Relaxation Data for a 10% Cr Steel at 600 °C. Transactions of the Indian Institute of Metals. 2016, 69, 2, 573–578 ■
	Mauri, A./Hopf, R./Ehret, A. E./Picu, C. R./Mazza, E. A discrete network model to represent the deformation behavior of human amnion. Journal of the mechanical behavior of biomedical materials. 2016, 58, 45–56 ■
	Mauri, A./Ehret, A. E./de Focatiis, D. S. A./Mazza, E. A model for the compressible, viscoelastic behavior of human amnion addressing tissue variability through a single parameter. Biomechanics And Modeling In Mechanobiology, 2016, 15(4), 1005–1017 ■
	Mazza, E./Ganghoffer, J. -F/Ehret, A. E. Mechanics of biological membranes. Journal of the Mechanical Behavior of Biomedical Materials. 2016, 58, 1 pp ■
	Rubin, M. B./Ehret, A. E. An Invariant-Based Ogden-Type Model for Incompressible Isotropic Hyperelastic Materials. Journal of Elasticity. 2016, 125, 1, 63–71 ✹
	Weickenmeier, J./Jabareen, M./Mazza, E. Suction based mechanical characterization of superficial facial soft tissues. Journal of Biomechanics. 2015, 48, 16, 4279–4286 ✹
Mechanical Systems Engineering	**Baechler, C./Gardin, S./Abuhimd, H./Kovacs, G.** Inkjet printed multiwall carbon nanotube electrodes for dielectric elastomer actuators. Smart Materials and Structures. 2016, 25, Article number 055009 (10 pp) ✹
	Baschnagel, F./Rohr, V./Terrasi, G. P. Fretting Fatigue Behaviour of Pin-Loaded Thermoset Carbon-Fibre-Reinforced Polymer (CFRP) Straps. Polymers. 2016, 8, 4, 124– ■
	Brunner, A. J. Acoustic emission analysis for identification of damage mechanisms in fiber-reinforced polymer composites and structural integrity assessment: Selected examples and challenges: IIIAE 2016 8th International Conference on Acoustic Emission. 2016, 287–292
	Brunner, A. J. Correlation between acoustic emission signals and delaminations in carbon fiber-reinforced polymer-matrix composites: a new look at mode I fracture test data. 32nd European Conference on Acoustic Emission Testing (EWGAE). 2016, 1, 55–64
	Brunner, A. J./Mujtaba, A./Stelzer, S./Rhys Jones, R. Modified Hartman-Schijve fitting of mode I delamination fatigue data and the resulting variation in threshold values Gthr. Procedia Structural Integrity. 2016, 2, 88–95
	Brunner, A. J./Stelzer, S./Pinter, G./Terrasi, G. P. Cyclic fatigue delamination of carbon fiber-reinforced polymer-matrix composites: Data analysis and design considerations. International Journal of Fatigue. 2016, 83, Part 2, 293–299 ✹
	Chakraborty, S./Saha, S./Dhanak, V. R./Biswas, K./Barbezat, M./Terrasid, G. P./Chakraborty, A. K. High yield synthesis of amine functionalized graphene oxide and its surface properties. RSC Advances. 2016, 6, 72, 67916–67924 ■

Mechanical Systems Engineering	**Esqué-de los Ojos, D./Ghisleni, R./Battisti, A./Mohanty, G./Michler, J./Sort, J./Brunner, A. J.** Understanding the mechanical behavior of fiber/matrix interfaces during push-in tests by means of finite element simulations and a cohesive zone model. Computational Materials Science. 2016, 117, 330–337 (joint paper) ✹
	Haba, D. Toughening of epoxy with WS2 nanoparticles. 2016, –
	Haba, D./Barbezat, M./Ayalur-Karunakaran, S./Schlögl, S./Brunner, A. J./Pinter, G. Significance of epoxy network properties for the toughening effect of flaky and fullerene-like WS2 nanoparticles. Journal of Polymer Science Part B: Polymer Physics. 2016, 54, 17, 1738–1747 ✹
	Haba, D./Brunner, A. J./Barbezatat, M./Spetter, D./Tremel, W./Pinter, G. Correlation of epoxy material properties with the toughening effect of fullerene-like WS2 nanoparticles. European Polymer Journal. 2016, 84, 125–136 ✹
	Koller, R.E./ Piskoty, G./ Zgraggen, M. Scheme of the failure analysis taking the example of profile wire breaks in the support cable of a cable car system: Praktische Metallographie. 2016, 53, 12, 798–810 ■
	Lees, J. M./Toumpanaki, E./Barbezat, M./Terrasi, G. P. Mechanical and Durability Screening Test Methods for Cylindrical CFRP Prestressing Tendons. Journal of Composites for Construction. 2016, 04016080 (13 pp) ■
	Meier, U./Brönnimann, R./Anderegg, P./Terrasi, G. P./Motavalli, M./Czaderski, C. Carbon fiber reinforced composites proved to be very successful in construction during a quarter of a century. ECCM17 – 17th European Conference on Composite Materials. 2016, 8pp– (joint paper)
	Rocha, M./Michel, S./Brühwiler, E./Nussbaumer, A. Very high cycle fatigue tests of quenched and self-tempered steel reinforcement bars. Materials and Structures. 2016, 49 (5), 1723–1732 ■
	Senteler, M./Weisse, B./Rothenfluh, D. A./Snedeker, J. G. Intervertebral reaction force prediction using an enhanced assembly of OpenSim models. Computer Methods in Biomechanics and Biomedical Engineering. 2016, 5, 538–548 ■
	Talari, M. K./Kishore Babu, N./Kallip, K./Leparoux, M./Koller, R. E./AlOgab, K. A./Maeder, X. Microstructure, mechanical, and impression creep properties of AlMg5–0.5 vol% Al2O3 nanocomposites. Advanced Engineering Materials. 2016, 18, 11, 1958–1966 (joint paper) ■
	Terrasi, G. P./Baschnagel, F./Gao, J./Meier, U. Fatigue behaviour of laminated carbon fibre reinforced polymer straps for bridge suspenders. ECCM17 – 17th European Conference on Composite Materials. 2016, 8pp–
	Terrasi, G.P./McIntyre, E.R.E./Bisby, L.A./Lämmlein, T.D./Lura, P. Transient thermal tensile behaviour of novel pitch-based ultra-high modulus CFRP tendons: Polymers. 2016, 8, 12, 446 (15 pp.) (joint paper) ■
	Valet, S./Weisse, B./Fischer, B./Meyer, D. C. Mechanical effects of heat exposure from a bipolar radiofrequency probe on suture under simulated arthroscopic conditions. Arthroscopy: The Journal of Arthroscopic & Related Surgery. 2016, 32, 10, 1985–1992 (joint paper) ✹
	Weiss, F. M./Töpper, T./Osmani, B./Peters, S./Kovacs, G./Müller, B. Electrospraying Nanometer-Thin Elastomer Films for Low-Voltage Dielectric Actuators. Advanced Electronic Materials. 2016, 2, 5, 1500476 (8 pp)1500476 (8 pp) ■
Multiscale Studies in Building Physics	**Allegrini, J./Carmeliet, J.** Coupled CFD, radiation and building energy model for studying heat fluxes in an urbaenvironment. 14th International Conference on Wind Engineering: ICWE 14. 2015, 9 pp
	Allegrini, J./Dorer, V./Carmeliet, J. Coupled CFD, radiation and building energy model for studying heat fluxes in an urban environment with generic building configurations. Sustainable Cities and Society. 2015, 19, 385–394 ■
	Allegrini, J./Dorer, V./Carmeliet, J. Impact of radiation exchange between buildings in urban street canyons on space cooling demands of buildings. Energy and Buildings. 2016, 127, 1074–1084 (joint paper) ■
	Allegrini, J./Dorer, V./Derome, D./Carmeliet, J. Microclimate Effects on Building Energy Use: A Methodological approach. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 993–1000 (joint paper)
	Allegrini, J./Orehounig, K./Mavromatidis, G./Ruesch, F./Dorer, V./Evins, R. A review of modelling approaches and tools for the simulation of district-scale energy systems. Renewable and Sustainable Energy Reviews. 2015, 52, 1391–1404 (joint paper) ✹
	Defraeye, T./Cronjé, P./Verboven, P./Opara, U. L./Nicolai, B. Exploring ambient loading of citrus fruit into reefer containers for cooling during marine transport using computational fluid dynamics. Postharvest Biology and Technology. 2015, 108, 91–101 ✹
	Defraeye, T./Nicolai, B./Kirkman, W./Moore, S./van Niekerk, S./Verboven, P./Cronjé, P. Integral performance evaluation of the fresh-produce cold chain: A case study for ambient loading of citrus in refrigerated containers. Postharvest Biology and Technology. 2016, 112, 1–13 ✹
	Defraeye, T./Radu, A./Derome, D. Recent advances in drying at interfaces of biomaterials: Drying Technology. 2016, 34, 16, 1904–1925 ✹

Desmarais, G./Sedighi Gilani, M./Vontobel, P./Carmeliet, J./Derome, D.
Transport of Polar and Nonpolar Liquids in Softwood Imaged by Neutron Radiography. Transport in Porous Media. 2016, 113, 2, 383–404 (joint paper) ✹

Galliano, R./Wakili, K. G./Stahl, Th/Binder, B./Daniotti, B.
Performance evaluation of aerogel-based and perlite-based prototyped insulations for internal thermal retrofitting: HMT model validation by monitoring at demo scale. Energy and Buildings. 2016, 126, 275–286 ■

Guizzardi, M./Derome, D./Carmeliet, J.
Water uptake in clay brick at different temperatures: Experiments and numerical simulations. Journal of Building Physics. 2016, 39, 4, 373–389 ■

Guizzardi, M./Derome, D./Mannes, D./Vonbank, R./Carmeliet, J.
Electrical conductivity sensors for water penetration monitoring in building masoy materials. Materials and Structures. 2016, 49 (7), 2535–2547 ■

Hendrickx, R./Desmarais, G./Weder, M./Ferreira, E. S. B./Derome, D.
Moisture uptake and permeability of canvas paintings and their components. Journal of Cultural Heritage. 2016, 19, 445–453 (joint paper) ■

Hohmann, M./Waibel, C./Evins, R.
Multi-objective optimization of the design and operation of an energy hub for the Empa campus. CISBAT 2015. 2015, 591–596 (joint paper)

Lal, S./Moonen, P./Poulikakos, L./Partl, M. N./Derome, D./Carmeliet, J.
Turbulent airflow above a full-scale macroporous material: Boundary layer characterization and conditional statistical analysis. Experimental Thermal and Fluid Science. 2016, 74, 390–403 (joint paper) ■

Lee, J. B./Derome, D./Carmeliet, J.
Drop impact on natural porous stones. Journal of colloid and interface science. 2016, 469, 147–156 ✹

Lee, J. B./Derome, D./Dolatabadi, A./Carmeliet, J.
Energy Budget of Liquid Drop Impact at Maximum Spreading: Numerical Simulations and Experiments. Langmuir. 2016, 32, 5, 1279–1288 ✹

Lee, J. B./Derome, D./Guyer, R./Carmeliet, J.
Modeling the Maximum Spreading of Liquid Droplets Impacting Wetting and Nonwetting Surfaces. Langmuir. 2016, 32, 5, 1299–1308 ✹

Lee, J. B./Laan, N./de Bruin, K. G./Skantzaris, G./Shahidzadeh, N./Derome, D./Carmeliet, J./Bonn, D.
Universal rescaling of drop impact on smooth and rough surfaces. Journal of Fluid Mechanics. 2016, 786, R4–1–R4–11 ✹

Lee, J. B./Radu, A. I./Vontobel, P./Derome, D./Carmeliet, J.
Absorption of impinging water droplet in porous stones. Journal of colloid and interface science. 2016, 471, 59–70 ✹

Marquant, J. F./Evins, R./Carmeliet, J.
Reducing Computation Time with a Rolling Horizon approach Applied to a MILP Formulation of Multiple Urban Energy Hub System. Procedia Computer Science. 2015, 51, 2137–2146 (joint paper)

Marquant, J./Omu, A./Evins, R./Carmeliet, J.
application of spatial-temporal clustering to facilitate energy system modelling. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 551–558 (joint paper)

Mavromatidis, G./Orehounig, K./Carmeliet, J.
Evaluation of solar energy integration potential in a neighbourhood. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 2623–2030 (joint paper)

Mavromatidis, G./Orehounig, K./Carmeliet, J.
Uncertainty and Sensitivity Analysis for the Optimal Design of Distributed Urban Energy Systems. Sustainable Built Environment (SBE) Regional Conference Zurich 2016: Expanding Boundaries. Systems Thinking in the Built Environment. 2016, 122–128 (joint paper)

Mavromatidis, G./Orehounig, K./Richner, P./Carmeliet, J.
A strategy for reducing CO2 emissions from buildings with the Kaya identity – A Swiss energy system analysis and a case study. Energy Policy. 2016, 88, 11, 343–354 (joint paper) ■

Moonen, P./Allegrini, J.
Employing statistical model emulation as a surrogate for CFD. Environmental Modelling & Software. 2015, 72, 77–91 ■

Morvaj, B./Evins, R./Carmeliet, J.
Bi-level optimisation of distributed energy systems incorporating non-linear powerflow constraints. CISBAT 2015: Future Buildings and Districts – Sustainability form Nano to Urban Scale. 2015, 859–864 (joint paper)

Morvaj, B./Evins, R./Carmeliet, J.
Impact of electrcial storage and grid upgrade on the optimal design and operation of a microgrid. 2016 IEEE Power & Energy Society (PES) General Meeting. 2016, 5 pp (joint paper)

Morvaj, B./Evins, R./Carmeliet, J.
Optimising urban energy systems: simultaneous system sizing, operation and district heating network layout. Energy. 2016, 116, Part 1, 619–636 (joint paper) ✹

Morvaj, B./Evins, R./Carmeliet, J.
Optimization framework for distributed energy systems with integrated electrical grid constraints. Applied Energy. 2016, 171, 296–313 (joint paper) ✹

Multiscale Studies in Building Physics	**Morvaj, B./Evins, R./Carmeliet, J.** The impact of low energy buildings on the optimal design of distributed energy system and networks. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 2035–2042 (joint paper)
	Omu, A./Hsieh, S./Orehounig, K./Carmeliet, J. Energy Hub Modeling for the Design of Solar Thermal Energy Systems with Short-term and Long-term Storage. CISBAT 2015: Future Buildings and Districts – Sustainability form Nano to Urban Scale. 2015, 609–614 (joint paper)
	Orehounig, K./Mavromatidis, G./Derome, D./Carmeliet, J. Photovoltaic panels as a main component of energy sustainable communities: comparative energy analysis of a village under Swiss and South African climatic loads. SASEC, 2015, Third Southern African Solar Energy Conference. 2015, 395–400 (joint paper)
	Patera, A./Derluyn, H./Derome, D./Carmeliet, J. Influence of sorption hysteresis on moisture transport in wood. Wood Science and Technology. 2016, 50, 2, 259–283 ✹
	Sedighi Gilani, M./Hugi, E./Carl, S./Palma, P./Vontobel, P. Heat Induced Desorption of Moisture in Timber Joints with Fastener During Charring. Fire Technology. 2016, 51, 6, 1433–1445 (joint paper) ■
	Stahl, T./Wakili, K. G./Vonbank, R./Brunner, S. Vergleichende Untersuchungen zur energetischen Sanierung von Fachwerkwänden mit Aerogeldämmputz als Innendämmung. Bauphysik. 2016, 38, 5, 274–284 (joint paper) ■
	Vonlanthen, M./ Jonas Allegrini, J./ Carmeliet, J. Assessment of a one-way nesting procedure for obstacle resolved large eddy simulation of the ABL: Computers & Fluids. 2016, 140, 136–147 ✹
	Waibel, C./Evins, R./Carmeliet, J. Holistic Optimization of Urban Morphology and District Energy System. Sustainable Built Environment (SBE) Regional Conference Zurich 2016: Expanding Boundaries. Systems Thinking in the Built Environment. 2016, 70–76 (joint paper)
	Waibel, C./Ramallo-González, A. P./Evins, R./Carmeliet, J. Reducing the computing time of multi-objective building optimisation using self-adaptive sequential model assessment. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 34–41 (joint paper)
	Wang, D./Orehounig, K./Carmeliet, J. Dynamic building energy demand modelling at urban scale for the case of Switzerland. CLIMA 2016 – 12th REHVA World Congress. 2016, 4, 10 pp (joint paper)
	Wu, R./Mavromatidis, G./Orehounig, K./Carmeliet, J. Optimal Energy System Transformation of a Neighbourhood. Sustainable Built Environment (SBE) Regional Conference Zurich 2016: Expanding Boundaries. Systems Thinking in the Built Environment. 2016, 58–63 (joint paper)
	Zelinka, S. L./Glass, S. V./Boardman, C. R./Derome, D. Comparison of the corrosion of fasteners embedded in wood measured in outdoor exposure with the predictions from a combined hygrothermal-corrosion model. Corrosion Science. 2016, 102, 178–185 ✹
	Zelinka, S. L./Glass, S. V./Boardman, C. R./Derome, D. Moisture storage and transport properties of preservative treated and untreated southern pine wood. Wood Material Science and Engineering. 2016, 11 (4)
	Zhou, X./ Derome, D./ Carmeliet, J. Robust moisture reference year methodology for hygrothermal simulations: Building and Environment. 2016, 110, 23–35 ■
	Zhou, X./Derome, D./Carmeliet, J. A new procedure for selecting moisture reference years for hygrothermal simulations: Bauphysik. 2016, 38, 6, 361–365 ■
NEST	**Fumey, B./Stoller, S./Fricker, R./Weber, R./Gantenbein, P./Daguenet-Frick, X./Dorer, V.** Performance of the absorption process in a seasonal sorption heat storage prototype. CISBAT 2015: Future Buildings and Districts – Sustainability form Nano to Urban Scale. 2015, 609–614 (joint paper)
Road Engineering / Sealing Components	**Angst, C./Raab, C.** Structural resistance and interlayer bonding of bridge-deck systems: 6th Eurasphalt & Eurobitume Congress, E&E Congress 2016. 2016, 10 pp.
	Arraigada, M./Perrotta, F./Raab, C./Tebaldi, G./Partl, M. N. Use of APT for validating the efficiency of reinforcement grids in asphalt pavements. The roles of accelerated pavement testing in pavement sustaibability. 2016, 509–521
	Arraigada, M./Raab, C./Partl, M. N./Perrota, F./Tebaldi, G. Influence of SAMI on the Performance of Reinforcement Grids. 8th RILEM International Conference on Mechanisms of Cracking and Debonding in Pavements. 2016, 13, 47, 337–342
	Arraigada, M./Treuholz, A./Partl, M. N. Study of the bearing capacity of swiss standard pavements under MLS10 loading. The roles of accelerated pavement testing in pavement sustaibability. 2016, 241–255

Road Engineering / Sealing Components

Arraigada, M./Treuholz, A./Partl, M. N.
Vergleich verschieden starker Asphalt-Belagsaufbauten: Ermittlung der Versagensgrenze eines T3 Norm- Belages mit der mobilen Grossversuchsanlage MLS10 = Comparison of different asphalt pavement structures: determination of the endurance limit of a T3 standard pavement with the full-scale mobile load simulator MLS10 = Comparaison des différentes structures en asphalte: détermination de la limite d'endurance d'une chaussée T3 définie avec l'appareil mobile à vraie grandeur MLS10. 2015, Forschungsprojekt ASTRA High Performance Ceramics1/013_OBF auf Antrag des Bundesamtes für Strassen (ASTRA), 1545, 122 pp

Arraigada, M./Treuholz, A./Partl, M. N.
Vergleich verschieden starker Asphalt-Belagsaufbauten: Ermittlung der Versagensgrenze eines T4 Norm- Belages mit der mobilen Grossversuchsanlage MLS10 = Comparison of different asphalt pavement structures: determination of the endurance limit of a T4 standard pavement with the full-scale mobile load simulator MLS10 = Comparaison des différentes structures en asphalte:détermination de la limite d'endurance d'une chaussée T4 définie avec l'appareil mobile à vraie grandeur MLS10. 2016, Forschungsprojekt ASTRA High Performance Ceramics1/014_OBF auf Antrag des Bundesamtes für Strassen (ASTRA), 1558, 122 pp

Bressi, S./Pittet, M./Dumont, A. G./Partl, M. N.
A framework for characterizing RAP clustering in asphalt concrete mixtures. Construction and Building Materials. 2016, 106, 38, 564–574 ■

Bueno, M./Andrés, J./Treuholz, A./Arraigada, M./Partl, M. N.
Digital Image Correlation to Monitor Cracking and Induction Healing of Asphalt Roads. RILEM series. 2016, 13, 725–730

Bueno, M./Arraigada, M./Partl, M. N.
Damage detection and artificial healing of asphalt concrete after trafficking with a load simulator. Mechanics of Time-Dependent Materials. 2016, 20, 3, 265–279 ■

Canestrari, F./Partl, M. N.
8th RILEM international symposium on testing and characterization of sustainable and innovative bituminous materials. RILEM series 2016, 1042 pp.

Cavalli, M. C./Griffa, M./Bressi, S./Partl, M. N./Tebaldi, G./Poulikakos, L. D.
Multiscale imaging and characterization of the effect of mixing temperature on asphalt concrete containing recycled components. Journal of Microscopy. 2016, 264, 1, 22–33 (joint paper) ✹

dos Santos, L./Poulikakos, D./Partl, M. N.
Thermal and Water Effects on Virgin Bitumen, Recycled and Mastic Mixtures. 8th RILEM International Symposium on Testing and Characterization of Sustainable and Innovative Bituminous Materials. 2016, 11, 72, 903–913

dos Santos, S./Poulikakos, L. D./Partl, M. N.
Crystalline structures in tetracosane–asphaltene films. RSC Advances. 2016, 6, 47, 41561–41567 ■

Fang, X.
A fundamental research on cold mix asphalt modified with cementitious materials. 149 pp. (joint paper)

Fang, X./Garcia, A./Winnefeld, F./Partl, M. N./Lura, P.
Impact of rapid-hardening cements on mechanical properties of cement bitumen emulsion asphalt. Materials and Structures. 2016, 49, 1, 487–498 (joint paper) ■

Ferrotti, G./D'Andrea, A./Maliszewski, M./Partl, M. N./Raab, C./Sangiorgi, C./Canestrari, F.
Inter-laboratory shear evaluation of reinforced bituminous interfaces. RILEM series. 2016, 11, 25, 309–321

Hailesilassie, B. K./Hugener, M./Bieder, A./Partl, M. M.
New experimental methods for characterizing formation and decay of foam bitumen. Materials and Structures. 20156, 49 (6), 2439–2454 ■

Hailesilassie, B.W.
Morphology characterization of foam bitumen and modeling for low temperature asphalt concrete. 150 pp.

Jeoffroy, E./Koulialias, D./Yoon, S./Partl, M. N./Studart, A. R.
Iron oxide nanoparticles for magnetically-triggered healing of bituminous materials. Construction and Building Materials. 2016, 112, 497–505 (joint paper) ■

Lal, S./Moonen, P./Poulikakos, L./Partl, M. N./Derome, D./Carmeliet, J.
Turbulent airflow above a full-scale macroporous material: Boundary layer characterization and conditional statistical analysis. Experimental Thermal and Fluid Science. 2016, 74, 390–403 (joint paper) ■

Ongel, A./Hugener, M.
Impact of rejuvenators on aging properties of bitumen. Construction and Building Materials. 2015, 94, 467–474 ■

Perraton, D./Di Benedetto, H./Sauzéat, C./Hofko, B./Graziani, A./Nguyen, Q.T./Pouget, S./Poulikakos, L.D./Tapsoba, N./Grenfell, J.
3Dim experimental investigation of linear viscoelastic properties of bituminous mixtures: Materials and Structures. 2016, 49, 11, 4813–4829 ■

Perraton, D./Tebaldi, G./Dave, E./Bilodeau, F./Giacomello, G./Grilli, A./Graziani, A./Bocci, M./Grenfell, J./Muraya, P./Pasetto, M./Kuna, K./Apeagyei, A./Lo Presti, D./Airey, G./Jenkins, K./Hajj, E./Hugener, M./Marsac, P.
Tests campaign analysis to evaluate the capability of fragmentation test to characterize recycled asphalt pavement (RAP) material. RILEM series. 2016, 11, 77, 965–976

Piemontese, F./Arraigada, M./Partl, M. N.
Wir behandeln Verkehrsadern. Baustellen, Die. 2016, 5, 78–82

Poulikakos, L. D./Hofko, B./Porot, L./Lu, X./Fischer, H./Kringos, N.
Impact of temperature on short- and long-term aging of asphalt binders. RILEM Technical Letters. 2016, 1, 6–9

Road Engineering / Sealing Components	**Poulikakos, L. D./Mayer, R. M./Heutschi, K./Soltic, P./Lees, A./Van Loo, H.** Defining road and rail vehicles with a low environmental footprint. Proceedings of 6th Transport Research Arena. 2016, 10 pp (joint paper)
	Raab, C./Arraigada, M./Partl, M. N. Effect of reinforced asphalt pavements on reflective crack propagation and interlayer bonding performance. 8th RILEM International Conference on Mechanisms of Cracking and Debonding in Pavements. 2016, 13, 67, 483–488
	Raab, C./Camargo, I. Ageining behavior of energy reduced pavement. Eighth International Conference on Maintenance and Rehabilitation of Pavements. 2016, 104–
	Raab, C./Grenfell, J./Abd El Halim, A. O./Partl, M. N. Comparison of interlayer bond behavior due to ageing. RILEM series. 2016, 11, 26, 323–334
Structural Engineering	**Aljabar, N. J./Zhao, X. L./Al-Mahaidi, R./Ghafoori, E./Motavalli, M./Powers, N.** Effect of crack orientation on fatigue behavior of CFRP-strengthened steel plates. Composite Structures. 2016, 152, 295–305 ■
	Aljabar, N. Z./Zhao, X. L./Al-Mahaidi, R./Ghafoori, E./Motavalli, M./Powers, N. Experimental investigation on CFRP strengthened steel plates with inclined cracks. Eighth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2016). 2016, 862–
	Boberg, K. M. Mitigation of wind-induced vibrations in long-span bridges using a distributed flap system. 2016, –
	Ehrhart, T./ Fink, G./ Steiger, R./ Frangi, A. Strenght grading of European beech lamellas for the production of GLT & CLT: International Network on Timber Engineering Research (INTER) – Meeting 49. 2016, 29–42
	Ehrhart, T./Fink, G./Steiger, R./Frangi, A. Experimental investigation of tensile strength and stiffness indicators regarding european beech timber. WCTE 2016 – World Conference on Timber Engineering, Proceedings. 2016, 292 (pp 8)
	Feltrin, G./Popovic, N./Flouri, K./Pietrzak, P. A Wireless Sensor Network with Enhanced Power Efficiency and Embedded Strain Cycle Identification for Fatigue Monitoring of Railway Bridges. Journal of Sensors. 2016, 6, Article ID 4359415 (14 pp) ■
	Feltrin, G./Popovic, N./Jalsan, K. -E/Wojtera, M. Strain Cycles Monitoring of Metallic Railway Bridges using a Wireless Sensor Network. Civil-Comp Press: Proceedings of the Third International Conference on Railway Technology: Research, Development and Maintenance. 2016, 14 pp
	Feltrin, G./Weber, B. Einfluss des Asphaltbelages auf die Dynamik von Fussgängerbrücken aus Beton und Stahl = Influence of the asphalt pavement on the dynamics of footbridges made of concrete and steel. 2015, Forschungsprojekt AGB High Performance Ceramics0/006 auf Antrag der Arbeitsgruppe Brückenforschung (AGB), 674, 152 pp
	Gallego, J. M./Czaderski, C./Michels, J. Prestress force-release tests at elevated temperatures – Gradient anchorage stability for prestressed EB CFRP strips. Composite Structures. 2016, 137, 159–169 ■
	Ghafoori , E./Motavalli, M. Fatigue Strengthening of Riveted Beams in a 120-Year-old Railway Metallic Bridge Using Pre-Stressed Un-bonded CFRP Laminates. FRP international. 2016, 13, 4, 5–8
	Ghafoori , E./Motavalli, M. Mode-I fatigue crack arrest in metallic girders using pre-stressed un-bonded CFRP plates: Proceedings of the Eighth International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016). 2016, 1164–1171
	Ghafoori, E./Motavalli, M. A Retrofit Theory to Prevent Fatigue Crack Initiation in Aging Riveted Bridges Using Carbon Fiber-Reinforced Polymer Materials. Polymers. 2016, 8, 8, 308 (20 pp) ■
	Ghafoori, E./Motavalli, M. Innovative CFRP-Prestressing System for Strengthening Metallic Structures. Journal of Composites for Construction. 2015, 19, 6, 04015006 (14 pp) ■
	Ghafoori, E./Motavalli, M./Herwig, A./Nussbaumer, A./Prinz, G. S./Fontana, M. Fatigue strengthening of riveted girders in a historic railway metallic bridge in Switzerland using pre-stressed un-bonded CFRP laminates. Eighth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2016). 2016, 522–
	Ghafoori, E./Motavalli, M./Nussbaumer, A./Zhao, X. L./Herwig, A./Fontana, M./Prinz, G. S. A strengthening theory to prevent fatigue crack initiation in old metallic bridges. Eighth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2016). 2016, 862–
	Ginés, R. Material Development for Friction Based Vibration Control. 2015
	Harmanci, Y. E./Michels, J./Chatzi, E. Residual resistance of non-mechanical prestressed CFRP anchorages subjected to environmental conditions. 7th International Conference on Advanced Composite Materials in Bridges and Structures. 2016, 6 pp
	Harmanci, Y. E./Michels, J./Czaderski, C./Motavalli, M. Calculation Technique for Externally Unbonded CFRP Strips in Structural Concrete Retrofitting. Journal of Engineering Mechanics. 2016, 142, 6, 04016026-1-04016026-12 ✹

Structural Engineering	**Hosseini, A./Ghafoori , E./Motavalli, M./Nussbaumer, A./Zhao, X. L.** Stress analysis of unbonden and bonded prestressed CFRP-strengthened steel plates: Proceedings of the Eighth International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016). 2016, 1179–1186
	Jockwer, R./Steiger, R. Performance of self-tapping screws and threaded steel rods in shear reinforcement of glulam beams. WCTE 2016 – World Conference on Timber Engineering, Proceedings. 2016, 345 (pp 10)
	Jockwer, R./Steiger, R./Frangi, A./Serrano, E. Load-carrying capacity and failure modes of glulam beams with reinforced notches. European Journal of Wood and Wood Products. 2016, 74, 3, 481–482 ■
	Kobel, P./Frangi, A./Steiger, R. Timber trusses made of european beech LVL. WCTE 2016 – World Conference on Timber Engineering, Proceedings. 2016, 727 (pp 8)
	Kotynia, R./Herwig, A./Staśkiewicz, M./Michels, J./Czaderski, C./Motavalli, M. Numerical analysis of bending and shear in large-scale pretensioned concrete girders strengthened with pre-stressed CFRP laminates: Proceedings of the Eighth International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016). 2016, 350–355
	Leinenbach, C./Czaderski, C./Michels, J./Graf, M./Kawalla, R. Development of rolling technology for an iron-based shape-memory-alloy . Materials Science Forum. 2016, 854, 79–86 (joint paper)
	Leinenbach, C./Lee, W. J./Lis, A./Arabi-Hashemi, A./Cayron, C./Weber, B. Creep and stress relaxation of a FeMnSi-based shape memory alloy at low temperatures. Materials Science and Engineering A. 2016, 677, 106–115 (joint paper) ✹
	Meier, U./Brönnimann, R./Anderegg, P./Terrasi, G. P./Motavalli, M./Czaderski, C. Carbon fiber reinforced composites proved to be very successful in construction during a quarter of a century. ECCM17 – 17th European Conference on Composite Materials. 2016, 8pp– (joint paper)
	Miah, M. S./Chatzi, E. N./Dertimanis, V. K./Weber, F. Nonlinear modeling of a rotational MR damper via an enhanced Bouc–Wen model. Smart Materials and Structures. 2015, 24, 10, Article number 105020 (14 pp) ✹
	Miah, M. S./Chatzi, E. N./Dertimanis, V. K./Weber, F. Real-time experimental validation of a novel semi-active control scheme for vibration mitigation. Structural Control and Health Monitoring. 2016, 14 pp ■
	Michels, J./Barros, J./Costa, I./Sena-Cruz, J./Czaderski, C./Giacomin, G./Kotynia, R./Lees, J./Pellegrino, C./Zile, E. Prestressed FRP Systems. Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures. 2016, 19, 7, 263–301
	Michels, J./Gallego, J. M./Czaderski, C. Effect of temperature on the bond strength and long-term behavior of EB CFRP strings on concrete in bridge construction. 7th International Conference on Advanced Composite Materials in Bridges and Structures. 2016, 7 pp
	Michels, J./Gams, M. Preliminary study on the influence of fibre orientation in fibre reinforced mortars. Građevinar. 2016, 68, 8, 645–655
	Michels, J./Sena Cruz, J./Christen, R./Czaderski, C./Motavalli, M. Mechanical performance of cold-curing epoxy adhesives after different mixing and curing procedures. Composites Part B: Engineering. 2016, 98, 434–443 ✹
	Michels, J./Staśkiewicz, M./Czaderski, C./Kotynia, R./Harmanci, Y. E./Motavalli, M. Prestressed CFRP Strips for Bridge Girder Retrofitting – application and Static Loading Test. Journal of Engineering Mechanics. 2016, 21, 04016003 (14 pp) ✹
	Motavalli, M./Ghafoori, E./Shahverdi, M./Michels, J./Czaderski, C. Prestressing systems for strengthening of concrete and metallic structures: recent developments at EMPA, Switzerland:Proceedings of the Eighth International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016). 2016, 1118–1125
	Paultre, P./Weber, B./Mousseau, S./Proulx, J. Detection and prediction of seismic damage to a high-strength concrete moment resisting frame structure. Engineering Structures. 2016, 114, 209–225 ✹
	Popovic, N./Feltrin, G./Jalsan, K. E./Wojtera, M. Event-driven strain cycle monitoring of railway bridges using a wireless sensor network with sentinel nodes. Structural Control and Health Monitoring. 2016, 13 pp ■
	Şanal, İ./Hosseini, A./Özyurt, N. An alternative to conventional measurement techniques for evaluating crack propagations and crack width openings. 12th International Congress on Advances in Civil Engineering. 2016, 8 pp
	Şanal, İ./Özyurt, N./Hosseini, A. Characterization of hardened state behavior of self compacting fiber-reinforced cementitious composites (SC-FRCC's) with different beam sizes and fiber types. Composites Part B: Engineering. 2016, 105, 30–45 ✹

Structural Engineering	**Şanal, İ./Özyurt, N./Hosseini, A.** Monitoring fresh state behavior of fiber reinforced cementitious composites (FRCCs) : a non-destructive, non-intrusive and full field image based technique. 12th International Congress on Advances in Civil Engineering. 2016, 8 pp
	Ševčík, M./Hutař, P./Vassilopoulos, A. P./Shahverdi, M. Analytical model of asymmetrical mixed-mode bending test of adhesively bonded GFRP joint. Frattura ed Integrità Strutturale. 2015, 9, 34, 216–225
	Shahverdi, M./Czaderski, C./Annen, P./Motavalli, M. Concrete structures strengtheninhg by iron-based shape memory alloys: an experimental demonstration. 19th IABSE Congress Stockholm, 21–23 September 2016, challenges in desing and construction of an innovative and sustainable built environment. 2016, 1194–1High Performance Ceramics
	Shahverdi, M./Czaderski, C./Annen, P./Motavalli, M. Strengthening of RC beams by iron-based shape memory alloy bars embedded in a shotcrete layer. Engineering Structures. 2016, 117, 263–273 ✹
	Shahverdi, M./Czaderski, C./Michels, J./Motavalli, M. Iron-based shape memory slloys reinforcement for strengthening of concrete structures. fib Symposium 2016. 2016
	Shahverdi, M./Czaderski, C./Motavalli, M. Iron-based shape memory alloys for prestressed near-surface mounted strengthening of reinforced concrete beams. Construction and Building Materials. 2016, 112, 38, 28–38 ■
	Shahverdi, M./Vassilopoulos, A. P./Keller, T. Mixed-Mode I/II fracture behavior of asymmetric composite joints. Procedia Structural Integrity. 2016, 2, 1886–1893
	Steiger, R./ Feltrin, G./ Sadeghi Marzaleh, A./ Nerbano, S. Ambient and forced vibration testing of a light-frame timber building – Conclusions regarding design of the lateral load resisting system: International Network on Timber Engineering Research (INTER) – Meeting 49. 2016, 169–184
	Steiger, R./Feltrin, G./Weber, F./Nerbano, S./Motavalli, M. On-site dynamic testing of a light-frame timber building. WCTE 2016 – World Conference on Timber Engineering, Proceedings. 2016, 134 (pp 10)
	Steiger, R./Feltrin, G./Weber, F./Nerbano, S./Motavalli, M. Experimental modal analysis of a multi-storey light-frame timber building. Bulletin of Earthquake Engineering. 2015, online ■
	Weber, B./Dauti, D./Dal Pont, S. COMSOL Implementation of a Porous Media Model for Simulating Pressure Development in Heated Concrete. COMSOL Conference 2016 Münich. 2016, 6 pp
	Weber, B./Feltrin, G. Schwingunstilger – Theoretische Grundlagen und praktische Anwendung. 19. Symposium – Bauwerksdynamik und Erschütterungsmessungen. 2016, 18 pp
	Zemp, R./de la Llera, J. C./Saldias, H./Weber, F. Development of a long-stroke MR damper for a building with tuned masses. Smart Structures and Systems. 2016, 25, 105006 (17pp) ■
Urban Energy Systems	**Allegrini, J./Dorer, V./Carmeliet, J.** Impact of radiation exchange between buildings in urban street canyons on space cooling demands of buildings. Energy and Buildings. 2016, 127, 1074–1084 (joint paper) ■
	Allegrini, J./Dorer, V./Derome, D./Carmeliet, J. Microclimate Effects on Building Energy Use: A Methodological approach. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 993–1000 (joint paper)
	Allegrini, J./Orehounig, K./Mavromatidis, G./Ruesch, F./Dorer, V./Evins, R. A review of modelling approaches and tools for the simulation of district-scale energy systems. Renewable and Sustainable Energy Reviews. 2015, 52, 1391–1404 (joint paper) ✹
	Baldini, L. Dynamic Energy Weighting Factors to Promote the Integration of Renewables into Buildings. Sustainable Built Environment (SBE) Regional Conference Zurich 2016: Expanding Boundaries. Systems Thinking in the Built Environment. 2016, 222–226
	Bollinger, L. A./Dijkema, G. P. J. Evaluating infrastructure resilience to extreme weather – The case of the Dutch electricity transmission network. European Journal of Transport and Infrastructure Research. 2016, 16, 1, 214–239 ▲
	Bollinger, L. A./Dorer, V. A simulation platform to facilitate the design of distributed energy systems for buildings and districts. 19. Status-Seminar «Forschen für den Bau im Kontext von Energie und Umwelt». 2016, 8 pp
	Bollinger, L. A./Evins, R. Facilitating Model Reuse and Integration in an Urban Energy Simulation Platform. Procedia Computer Science. 2015, 51, 2127–2136
	Bollinger, L. A./Evins, R. HUES: A Holistic Urban Energy Simulation platform for effective model integration. CISBAT 2015: Future Buildings and Districts – Sustainability form Nano to Urban Scale. 2015, 847–852

Urban Energy Systems	**Bollinger, L. A./Evins, R.** Multi-agent reinforcement learning for optimizing technology deployment in distributed multi-energy systems. 23rd International Workshop of the European Group for Intelligent Computing in Engineering. 2016, 12 pp
	Bollinger, L. A./van Blijswijk, M. J./Dijkema, G. P. J./Nikoli, I. An energy systems modelling tool for the social simulation community. Journal of Artificial Societies and Social Simulation. 2016, 19, 1, 1–21 ▲
	Davis, C./Bollinger, L. A./Dijkema, G. P. J. The state of the states: Data-driven analysis of the US Clean Power Plan. Renewable and Sustainable Energy Reviews. 2016, 60, 631–652 ✹
	Dorer, V./Bollinger, L. A./Orehounig, K. Modelling, design and assessment of decentralised energy systems for sites and quarters. 19. Status-Seminar «Forschen für den Bau im Kontext von Energie und Umwelt». 2016, 10 pp
	Eid, C./Bollinger, L. A./Koirala, B./Scholten, D./Facchinetti, E./Lilliestam, J./Hakvoort, R. Market integration of local energy systems: Is local energy management compatible with European regulation for retail competition?. Energy. 2016, 114, 913–922 ✹
	Evins, R. A bi-level design and operation optimization process applied to an energy centre. Journal of Building Performance Simulation. 2016, 9 (3), 255–271 ■
	Evins, R./Orehounig, K./Dorer, V. Integrated urban energy modelling approaches to support the Swiss Energiewende 2050. CISBAT 2015: Future Buildings and Districts – Sustainability form Nano to Urban Scale. 2015, 847–852
	Evins, R./Orehounig, K./Dorer, V. Variability between domestic buildings: the impact on energy use. Journal of Building Performance Simulation. 2016, 9 (2), 162–175 ■
	Facchinetti, E./Eid, C./Bollinger, A./Sulzer, S. Business model innovation for local energy management: a perspective from Swiss utilities. Frontiers in Energy Research. 2016, 4, Art. . 31 (13 pp) ■
	Fumey, B. Absorption von Wasserdampf auf Natronlauge für saisonale Wärmespeicherung. Arbeitsgemeinschaft Erneuerbare Energie. 2016, 03, 5 pp
	Fumey, B./Stoller, S./Fricker, R./Weber, R./Dorer, V./Vogt, U. F. Development of a novel cooking stove based on catalytic hydrogen combustion. International Journal of Hydrogen Energy. 2016, 41, 18, 7494–7499 (joint paper) ✹
	Fumey, B./Stoller, S./Fricker, R./Weber, R./Gantenbein, P./Daguenet-Frick, X./Dorer, V. Performance of the absorption process in a seasonal sorption heat storage prototype. CISBAT 2015: Future Buildings and Districts – Sustainability form Nano to Urban Scale. 2015, 609–614 (joint paper)
	Fumey, B./Weber, R./Gantenbein, P./Daguenet-Frick, X./Baldini, L. Absorption based seasonal thermal storage with sodium hydroxide, progress and outlook. 19. Status-Seminar «Forschen für den Bau im Kontext von Energie und Umwelt». 2016, 8 pp
	Hohmann, M./Waibel, C./Evins, R. Multi-objective optimization of the design and operation of an energy hub for the Empa campus. CISBAT 2015. 2015, 591–596 (joint paper)
	Hsieh, S. -S/Orehounig, C. Evaluation of renewable energy sources integration potential in a new development area. Energy for Sustainability 2015. Sustainable Cities: Design for People and the Planet. 2015, 6 pp
	Hsieh, S. -S/Weber, R./Dorer, V./Orehounig, K. Integration of Thermal Energy Storage at Building and Neighbourhood Scale. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 2599–2606
	Kim, M. K./Baldini, L. Energy analysis of a decentralized ventilation system compared with centralized ventilation systems in European climates: Based on review of analyses. Energy and Buildings. 2016, 111, 424–433 ■
	Marquant, J. F./Evins, R./Carmeliet, J. Reducing Computation Time with a Rolling Horizon approach Applied to a MILP Formulation of Multiple Urban Energy Hub System. Procedia Computer Science. 2015, 51, 2137–2146 (joint paper)
	Marquant, J./Omu, A./Evins, R./Carmeliet, J. application of spatial-temporal clustering to facilitate energy system modelling. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 551–558 (joint paper)
	Mavromatidis, G./Orehounig, K./Carmeliet, J. Evaluation of solar energy integration potential in a neighbourhood. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 2623–2030 (joint paper)
	Mavromatidis, G./Orehounig, K./Carmeliet, J. Uncertainty and Sensitivity Analysis for the Optimal Design of Distributed Urban Energy Systems. Sustainable Built Environment (SBE) Regional Conference Zurich 2016: Expanding Boundaries. Systems Thinking in the Built Environment. 2016, 122–128 (joint paper)
	Mavromatidis, G./Orehounig, K./Richner, P./Carmeliet, J. A strategy for reducing CO2 emissions from buildings with the Kaya identity – A Swiss energy system analysis and a case study. Energy Policy. 2016, 88, 11, 343–354 (joint paper) ■

Urban Energy Systems	**Miglani, S./Orehounig, K./Carmeliet, J.** Assessment of the ground source heat potential at building level Applied to an urban case study. 19. Status-Seminar «Forschen für den Bau im Kontext von Energie und Umwelt». 2016, 13 pp
	Morvaj, B./Evins, R./Carmeliet, J. Bi-level optimisation of distributed energy systems incorporating non-linear powerflow constraints. CISBAT 2015: Future Buildings and Districts – Sustainability form Nano to Urban Scale. 2015, 859–864 (joint paper)
	Morvaj, B./Evins, R./Carmeliet, J. Impact of electrcial storage and grid upgrade on the optimal design and operation of a microgrid. 2016 IEEE Power & Energy Society (PES) General Meeting. 2016, 5 pp (joint paper)
	Morvaj, B./Evins, R./Carmeliet, J. Optimising urban energy systems: simultaneous system sizing, operation and district heating network layout. Energy. 2016, 116, Part 1, 619–636 (joint paper) ✹
	Morvaj, B./Evins, R./Carmeliet, J. Optimization framework for distributed energy systems with integrated electrical grid constraints. Applied Energy. 2016, 171, 296–313 (joint paper) ✹
	Morvaj, B./Evins, R./Carmeliet, J. The impact of low energy buildings on the optimal design of distributed energy system and networks. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 2035–2042 (joint paper)
	Morvaj, B./Knezović, K./Evins, R./Marinelli, M. Integrating multi-domain distributed energy systems with electric vehicle PQ flexibility: Optimal design and operation scheduling for sustainable low-voltage distribution grids. Sustainable Energy, Grids and Networks. 2016, 8, 51–61
	Omu, A./Hsieh, S./Orehounig, K. Mixed integer linear programming for the design of solar thermal energy systems with short-term storage. Applied Energy. 2016, 180, 313–326 ✹
	Omu, A./Hsieh, S./Orehounig, K./Carmeliet, J. Energy Hub Modeling for the Design of Solar Thermal Energy Systems with Short-term and Long-term Storage. CISBAT 2015: Future Buildings and Districts – Sustainability form Nano to Urban Scale. 2015, 609–614 (joint paper)
	Omu, A./Rysanek, A./Stettler, M./Choudhary, R. Economic, Climate Change, and Air Quality Analysis of Distributed Energy Resource Systems. Procedia Computer Science. 2015, 51, 2147–2156
	Orehounig, K./Mavromatidis, G./Derome, D./Carmeliet, J. Photovoltaic panels as a main component of energy sustainable communities: comparative energy analysis of a village under Swiss and South African climatic loads. SASEC, 2015, Third Southern African Solar Energy Conference. 2015, 395–400 (joint paper)
	Prasanna, A./Vetterli, N./Dorer, V./Sulzer, M. Modelling the Suurstoffi district based on monitored data to analyse future scenarios for energy self-sufficiency. 19. Status-Seminar «Forschen für den Bau im Kontext von Energie und Umwelt». 2016, 15 pp
	Tavasszy, L./Bollinger, L. A./Dijkema, G. P. J. Special Issue on Climate adaptation of infrastructure networks. European Journal of Transport and Infrastructure Research. 2016, 16, 1, 95–97 ▲
	van Helden, W./Yamaha, M./Rathgeber, C./Hauer, A./Huaylla, F./Le Pierrès, N./Stutz, B./Mette, B./Dolado, P./Lazaro, A./Mazo, J./Dannemand, M./Furbo, S./Campos-Celador, A./Diarce, G./Cuypers, R./König-Haagen, A./Höhlein, S./Brüggemann, D./Fumey, B./Weber, R./Köll, R./Wagner, W./Daguenet-Frick, X./Gantenbein, P./Kuznik, F. IEA SHC task 42 / ECES annex 29 – working group B: applications of compact thermal energy storage: Energy Procedia. 91, 231–245
	Waibel, C./Evins, R. Exploring the use of variable mapping for optimising urban morphologies. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 1837–1844
	Waibel, C./Evins, R./Carmeliet, J. Holistic Optimization of Urban Morphology and District Energy System. Sustainable Built Environment (SBE) Regional Conference Zurich 2016: Expanding Boundaries. Systems Thinking in the Built Environment. 2016, 70–76 (joint paper)
	Waibel, C./Ramallo-González, A. P./Evins, R./Carmeliet, J. Reducing the computing time of multi-objective building optimisation using self-adaptive sequential model assessment. Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association. 2015, 34–41 (joint paper)
	Wang, D./Landolt, J./Orehounig, K./Carmeliet, J. Dynamic urban energy demand modelling to address building retrofitting alternatives in Switzerland. 19. Status-Seminar «Forschen für den Bau im Kontext von Energie und Umwelt». 2016, 10 pp
	Wang, D./Orehounig, K./Carmeliet, J. Dynamic building energy demand modelling at urban scale for the case of Switzerland. CLIMA 2016 – 12th REHVA World Congress. 2016, 4, 10 pp (joint paper)

Urban Energy Systems	**Wu, R./Mavromatidis, G./Orehounig, K./Carmeliet, J.** Optimal Energy System Transformation of a Neighbourhood. Sustainable Built Environment (SBE) Regional Conference Zurich 2016: Expanding Boundaries. Systems Thinking in the Built Environment. 2016, 58–63 (joint paper)
	Materials Meet Life
	Nau, K./Bohmer, N./Kühnel, D./Marquardt, C./Paul, F./Steinbach, C./Krug, H. F. The Dana 2.0 Knowledge base on nanomaterials – communicating current nanosafety research based on evaluated literature data. Journal of Materials Education. 2016, 38, 3–4, 93–108 (joint paper) ■
	Nau, K./Krug, H.F. Sichere Nanomaterialien?! Neue Erkenntnisse und Methoden in der Physik führten zur Nanotechnologie, einem breiten Forschungsfeld mit möglichen Risiken für Umwelt und Gesundheit: Physik Journal. 2016, 15, 11, 29–34
Advanced Fibers	**Civardi, C./Van den Bulcke, J./Schubert, M./Michel, E./Butron, M. I./Boone, M. N./Dierick, M./Van Acker, J./Wick, P./Schwarze, F. W. M. R.** Penetration and effectiveness of micronized copper in refractory wood species. Plos One. 2016, 11, 9, e0163124 (14 pp) (joint paper) ■
	Dorst, J. Deposition and characterization of functional plasma polymer nanofilms. 2016, 102 pp
	Hegemann, D. Deposition of functional plasma polymer films –options for low and atmospheric pressure plasmas. Galvanotechnik. 2016, 8, 114 Jahre (5 pp)
	Hegemann, D./Blanchard, N. E./Heuberger, M. Reduced Protein Adsorption on Plasma Polymer Films Comprising Hydrophobic/Hydrophilic Vertical Chemical Gradients. Plasma Processes and Polymers. 2016, 13, 5, 494–498 ✹
	Hegemann, D./Lorusso, E./Butron-Garcia, M. -I/Blanchard, N. E./Rupper, P./Favia, P./Heuberger, M./Vandenbossche, M. Suppression of Hydrophobic Recovery by Plasma Polymer Films with Vertical Chemical Gradients. Langmuir. 2016, 32, 3, 651–654 ✹
	Hegemann, D./Michlíček, M./Blanchard, N. E./Schütz, U./Lohmann, D./Vandenbossche, M./Zajíčková, L./Drábik, M. Deposition of Functional Plasma Polymers Influenced by Reactor Geometry in Capacitively Coupled Discharges. Plasma Processes and Polymers. 2016, 13, 2, 279–286 ✹
	Hegemann, D./Nisol, B./Watson, S./Wertheimer, M. R. Energy conversion efficiency in plasma polymerization – a comparison of low- and atmospheric-pressure processes. Plasma Processes and Polymers. 2016, 13, 8, 834–842 ✹
	Hocquard, N. Exploring the Sub Surface. Plasma deposition of functional films with vertical gradients and examination of their adsorption characteristics in optical sensors. 2016, 38 pp
	Hufenus, R./Gottardo, L./Leal, A. A./Zemp, A./Heutschi, K./Schuetz, P./Meyer, V. R./Heuberger, M. Melt-spun polymer fibers with liquid core exhibit enhanced mechanical damping. Materials & Design. 2016, 110, 685–692 (joint paper) ■
	Hufenus, R./Reifler, F. A. Effect of stress and temperature on the molecular orientation of melt-spun poly(3-hydroxybutyrate) fibersy. The Fiber Society 2016 Spring Conference. Textile Innovations – Opportunities and Challenges. 2016, 19–20
	Indutny, I./Ushenin, Y./Hegemann, D./Vandenbossche, M./Myn'ko, V./Lukaniuk, M./Shepeliavyi, P./Korchovyi, A./Khrystosenko, R. Enhancing surface plasmon resonance detection using nanostructured Au chips. Nanoscale Research Letters. 2016, 11, 535 (6 pp.) ■
	Kołbuk, D./Guimond-Lischer, S./Sajkiewicz, P./Maniura-Weber, K./Fortunato, G. Morphology and surface chemistry of bicomponent scaffolds in terms of mesenchymal stromal cell viability. Journal of Bioactive and Compatible Polymers: Biomedical applications. 2016, 31, 4, 423–436 (joint paper) ✹
	Kucki, M./Rupper, P./Sarrieu, C./Melucci, M./Treossi, E./Schwarz, A./León, V./Kraegeloh, A./Flahaut, E./Vázquez, E./Palermo, V./Wick, P. Interaction of graphene-related materials with human intestinal cells: an in vitro approach. Nanoscale. 2016, 8, 16, 8749–8760 (joint paper) ✹
	Leal, A. A./Naeimirad, M./Gottardo, L./Schuetz, P./Zadhoush, A./Hufenus, R. Microfluidic behavior in melt-spun hollow and liquid core fibers. International Journal of Polymeric Materials and Polymeric Biomaterials. 2016, 65, 9, 451–456 (joint paper) ■
	Leal, A. A./Veeramachaneni, J. C./Reifler, F. A./Amberg, M./Stapf, D./Barandun, G. A./Hegemann, D./Hufenus, R. Novel approach for the development of ultra-light, fully-thermoplastic composites. Materials & Design. 2016, 93, 334–342 (joint paper) ■
	Leal, A./Veeramachaneni, J. C./Reifler, F. A./Amberg, M./Stapf, D./Barandun, G. A./Hegemann, D./Hufenus, R. Mechanical and structural characteristics of a high-performance, fully-thermoplastic, fiber-reinforced composite. The Fiber Society 2016 Spring Conference.Textile Innovations— Opportunities and Challenges. 2016, 115–116

Advanced Fibers	**Liu, X./Haoa, J./Gaan, S.** Recent studies on the decomposition and strategies of smoke and toxicity suppression for polyurethane based materials. RSC Advances. 2016, 6, 78, 74742–74756 ■
	Liu, X./Xu, D. -M/Wang, Y. -L/Zhou, Y./Hao, J. -W Smoke and toxicity suppression properties of ferrites on flame-retardant polyurethane–polyisocyanurate foams filled with phosphonate. Journal of Thermal Analysis and Calorimetry. 2016, 125, 1, 245–254 ✹
	Merk, V./Chanana, M./Gaan, S./Burgert, I. Mineralization of wood by calcium carbonate insertion for improved flame retardancy. Holzforschung. 2016, 70, 9, 867–876 ✹
	Naeimirad, M./Zadhoush, A./Abrishamkar, A./Pishevar, A./Leal, A. A. Melt-spun liquid core fibers: physical and morphological characteristics. Iranian Polymer Journal. 2016, 25, 5, 397–403 (joint paper) ■
	Niemczyk, E. Effect of natural deep eutectic solvents on PLA processing. 2016, 105 pp
	Nyström, G./Fernández-Ronco, M. P./Bolisetty, S./Mazzotti, M./Mezzenga, R. Amyloid templated gold aerogels. Advanced Materials. 2016, 28, 3, 472–478 ✹
	Petit, L. Preparation of plasma-based surface gradient. 2016, 38 pp
	Rao, J./Zhang, H./Gaan, S./Salentinig, S. Self-Assembly of Polystyrene-b-poly(2-vinylpyridine) Micelles: From Solutions to Silica Particles Surfaces. Macromolecules. 2016, 49, 16, 5978–5984 (joint paper) ✹
	Reifler, F.A./Hufenus, R. Structural response of melt-spun poly(3-hydroxybutyrate) fibers to heat and stress investigated by wide-angle X-ray diffraction (WAXD) and small-angle X-ray scattering (SAXS). 30th European Crystallographic Meeting, Acta Crystallographica Section A: Foundations and Advances. 2016, A72, S423–S424 (joint paper) ✹
	Salmeia, K. A./Gaan, S./Malucelli, G. Recent advances for flame retardancy of textiles based on phosphorus chemistry. Polymers. 2016, 8, 9, 319 (36 pp) ■
	Salmeia, K. A./Jovic, M./Ragaisiene, A./Rukuiziene, Z./Milasius, R./Mikucioniene, D./Gaan, S. Flammability of Cellulose-Based Fibers and the Effect of Structure of Phosphorus Compounds on Their Flame Retardancy. Polymers. 2016, 8, 8, 293 (15 pp) ■
	Schmidt-Emrich, S./Stiefel, P./Rupper, P./Katzenmeier, H./Amberg, C./Maniura-Weber, K./Ren, Q. Rapid Assay to Assess Bacterial Adhesion on Textiles. Materials. 2016, 9, 4, 249 (13 pp) (joint paper) ■
	Schöller, K./Toncelli, C./Experton, J./Widmer, S./Rentsch, D./Vetushka, A./Martin, C. J./Heuberger, M./Housecroft, C. E./Constable, E. C./Boesel, L. F./Scherera, L. J. 2, 2′:6′, 2″-Terpyridine-functionalized redox-responsive hydrogels as a platform for multi responsive amphiphilic polymer membranes. RSC Advances. 2016, 6, 100, 97921–97930 (joint paper) ■
	Sedighi Gilani, M./Zhao, S./Gaan, S./Koebel, M. M./Zimmermann, T. Design of a hierarchically structured hybrid material via in situ assembly of a silica aerogel into a wood cellular structure. RSC Advances. 2016, 6, 67, 62825–62832 (joint paper) ■
	Serbezeanu, D./Butnaru, I./Varganici, C. -D/Bruma, M./Fortunato, G./Gaan, S. Phosphorus-containing polyimide fibers and their thermal properties. RSC Advances. 2016, 6, 44, 38371–38379 (joint paper) ■
	Turalija, M./Bischof, S./Budimir, A./Sabyasachi Gaan, S. Antimicrobial PLA films from environment friendly additives. Composites Part B: Engineering. 2016, 102, 94–99 ✹
	Vandenbossche, M./Butron Garcia, M. -I/Schütz, U./Rupper, P./Amberg, M./Hegemann, D. Initial Growth of Functional Plasma Polymer Nanofilms. Plasma Chemistry and Plasma Processing. 2016, 36, 2, 667–677 ✹
	Vandenbossche, M./Casetta, M./Jimenez, M./Traisnel, M./Hegemann, D. Les non-tissés dépolluent les sédiments. Les acides aminés /biomolécules piègent les métaux lourds. Recyclage & Valorisation. 2016, 54, 46–49
	Woigk, W./Rion, J./Hegemann, D./C. Fuentes, C./Vuure, A. W./Masania, K./Dransfeld, C. Mechanical properties of tough plasma treated flax fibre thermoplastic composites. ECCM17 – 17th European Conference on Composite Materials. 2016, 9 pp
	Zachariah, Z./Espinosa-Marzal, R. M./Spencer, N. D./Heuberger, M. P. Stepwise collapse of highly overlapping electrical double layers. Physical Chemistry Chemical Physics. 2016, 11 pp ✹
	Zare-Eelanjegh, E./Bora, D. K./Rupper, P./Schrantz, K./Thöny-Meyer, L./Maniura-Weber, K./Richter, M./Faccio, G. Affinity-Driven Immobilization of Proteins to Hematite Nanoparticles. ACS Applied Materials & Interfaces. 2016, 8, 31, 20432–20439 (joint paper) ■
	Zhao, J./Bolisetty, S./Adamcik, J./Han, J./Fernández-Ronco, M. P./Mezzenga, R. Freeze–Thaw Cycling Induced Isotropic–Nematic Coexistence of Amyloid Fibrils Suspensions. Langmuir. 2016, 32, 10, 2492–2499 ✹

Biointerfaces	
	Bandera, D./Meyer, V. R./Prevost, D./Zimmermann, T./Boesel, L. F. Polylactide/Montmorillonite Hybrid Latex as a Barrier Coating for Paper applications. Polymers. 2016, 8, 3, 75– (joint paper) ■
	Belu, A./Maniura, K./McArthur, S. New developments at the biointerface. Biointerphases: a Journal of Biomaterials and Biological Interfaces. 2015, 10, 4, Art. . 040High Performance Ceramics (2 pp) ■
	Buhmann, M. T./Schulze, B./Förderer, A./Schleheck, D./Kroth, P. G. Bacteria may induce the secretion of mucin-like proteins by the diatom Phaeodactylum tricornutum. Journal of Phycology. 2016, 52, 3, 463–474 ✹
	Buhmann, M. T./Stiefel, P./Maniura-Weber, K./Ren, Q. In vitro biofilm models for device-related infections. Trends in Biotechnology. 2016, 34, 12, 945–948 ✹
	Chan, S. C. W./Tekari, A./Benneker, L. M./Heini, P. F./Gantenbein, B. Osteogenic differentiation of bone marrow stromal cells is hindered by the presence of intervertebral disc cells. Arthritis Research & Therapy. 2016, 18, 29, 10 pp ✹
	Chatzidaki, M. D./Papadimitriou, K./Alexandraki, V./Tsirvouli, E./Chakim, Z./Ghazal, A./Mortensen, K./Yaghmur, A./Salentinig, S./Papadimitriou, V./Tsakalidou, E./Xenakis, A. Microemulsions as Potential Carriers of Nisin: Effect of Composition on Structure and Efficacy. Langmuir. 2016, 32, 35, 8988–8998 ✹
	Cipolla, D./Wu, H./Salentinig, S./Boyd, B./Rades, T./Vanhecke, D./Petri-Fink, A./Rothin-Rutishauser, B./Eastman, S./Redelmeier, T./Gonda, I./Chan, H. K. Formation of drug nanocrystals under nanoconfinement afforded by liposomes. RSC Advances. 2016, 6, 8, 6223–6233 ■
	Eberhardt, C./Wurnig, M. C./Wirsching, A./Rossi, C./Rottmar, M./Özbay, P. S./Filli, L./Lesurtel, M./Boss, A. Intravoxel incoherent motion analysis of abdominal organs: computation of reference parameters in a large cohort of C57Bl/6 mice and correlation to microvessel density. Magnetic Resonance Materials in Physics, Biology and Medicine. 2016, 29, 5, 751–763 ■
	Faccio, G./Bannwarth, M. B./Schulenburg, C./Steffen, V./Jankowska, D./Pohl, M./Rossi, R. M./Maniura-Weber, K./Boesel, L. F./Richter, M. Encapsulation of FRET-based glucose and maltose biosensors to develop functionalized silica nanoparticles. Analyst. 2016, 141, 15, 3982–5984 (joint paper) ✹
	Ghazaryan, G./Schaller, R./Feldman, K./Tervoort, T. A. Rejuvenation of PLLA: Effect of plastic deformation and orientation on physical ageing in poly(l-lactic acid) films. Journal of Polymer Science Part B: Polymer Physics. 2016, 54, 21, 2233–2244 ✹
	Gontsarik, M./Buhmann, M. T./Yaghmur, A./Ren, Q./Maniura-Weber, K./Salentinig, S. Antimicrobial Peptide-Driven Colloidal Transformations in Liquid-Crystalline Nanocarriers. The Journal of physical chemistry. Letters. 2016, 7, 17, 3482–3486 ✹
	Guimond-Lischer, S./Ren, Q./Braissant, O./Gruner, P./Wampfler, B./Maniura-Weber, K. Vacuum plasma sprayed coatings using ionic silver doped hydroxyapatite powder to prevent bacterial infection of bone implants. Biointerphases: a Journal of Biomaterials and Biological Interfaces. 2016, 11, 1, Art. . 011012 (8 pp) ■
	Gutt, B./Kehl, K./Ren, Q./Boesel, L. F. Using ANOVA models to compare and optimize extraction protocols of P3HBHV from Cupriavidus necator. Industrial & Engineering Chemistry Research. 2016, 55, 39, 10355–10365 (joint paper) ✹
	Idaszek, J./Bruinink, A./Święszkowski, W. Delayed degradation of poly(lactide-co-glycolide) accelerates hydrolysis of poly(ε-caprolactone) in ternary composite scaffolds. Polymer Degradation and Stability. 2016, 124, 119–127 ✹
	Kołbuk, D./Guimond-Lischer, S./Sajkiewicz, P./Maniura-Weber, K./Fortunato, G. Morphology and surface chemistry of bicomponent scaffolds in terms of mesenchymal stromal cell viability. Journal of Bioactive and Compatible Polymers: Biomedical applications. 2016, 31, 4, 423–436 (joint paper) ✹
	Lattuada, M./Ren, Q./Zuber, F./Galli, M./Bohmer, N./Matter, M. T./Wichser, A./Bertazzo, S./Piere, G. B./Herrmann, I. K. Theranostic body fluid cleansing: rationally designed magnetic particles enable capturing and detection of bacterial pathogens. Journal of Materials Chemistry B: Materials for biology and medicine. 2016, 4, 44, 7080–7086 (joint paper) ✹
	Malheiro, V./Lehner, F./Dinca, V./Hoffmann, P./Maniura-Weber, K. Convex and concave micro-structured silicone controls the shape, but not the polarization state of human macrophages. Biomaterials Science. 2016, 4, 11, 1562–1573 (joint paper) ■
	Müller, E./Wang, W./Qiao, W./Bornhäuser, M./Zandstra, P. W./Werner, C./Pompe, T. Distinguishing autocrine and paracrine signals in hematopoietic stem cell culture using a biofunctional microcavity platform. Scientific s. 2016, 6, 12 pp (Art. . 31951) ✹
	Muoth, C./Rottmar, M./Schipanski, A./Gmuender, C./Maniura-Weber, K./Wicka, P./Buerki-Thurnherr, T. A micropatterning approach to study the influence of actin cytoskeletal organization on polystyrene nanoparticle uptake by BeWo cells. RSC Advances. 2016, 6, 76, 72827–72835 (joint paper) ■
	Obarzanek-Fojt, M./Curdy, C./Loggia, N./Di Lena, F./Grieder, K./Bitar, M./Wick, P. Tracking immune-related cell responses to drug delivery microparticles in 3D dense collagen matrix. European Journal of Pharmaceutics and Biopharmaceutics. 2016, 107, 180–190 (joint paper) ✹

Biointerfaces	**Pellis, A./Gamerith, C./Ghazaryan, G./Ortner, A./Acero, E. H./Guebitz, G. M.** Ultrasound-enhanced enzymatic hydrolysis of poly(ethylene terephthalate). Bioresource Technology. 2016, 218, 1298–1302 ✹
	Pellis, A./Haernvall, K./Pichler, C. M./Ghazaryan, G./Breinbauer, R./Guebitz, G. M. Enzymatic hydrolysis of poly(ethylene furanoate). Journal of Biotechnology. 2016, 235, 47–53 ✹
	Pusnik, M./Imeri, M./Deppierraz, G./Bruinink, A./Zinn, M. The agar diffusion scratch assay – A novel method to assess the bioactive and cytotoxic potential of new materials and compounds. Scientific s. 2016, 6, 10 pp (Art. . 20854) ■
	Rao, J./Zhang, H./Gaan, S./Salentinig, S. Self-Assembly of Polystyrene-b-poly(2-vinylpyridine) Micelles: From Solutions to Silica Particles Surfaces. Macromolecules. 2016, 49, 16, 5978–5984 (joint paper) ✹
	Rottmar, M./Haralampieva, D./Salemi, S./Eberhardt, C./Wurnig, M. C./Boss, A./Eberli, D. Magnetization transfer MR imaging to monitor muscle tissue formation during myogenic in vivo differentiation of muscle precursor cells. Radiology. 2016, 281, 2, 436–443 ✹
	Schmidt-Emrich, S./Stiefel, P./Rupper, P./Katzenmeier, H./Amberg, C./Maniura-Weber, K./Ren, Q. Rapid Assay to Assess Bacterial Adhesion on Textiles. Materials. 2016, 9, 4, 249 (13 pp) (joint paper) ■
	Schoenenberger, A. D./Schipanski, A./Malheiro, V./Kucki, M./Snedeker, J. G./Wick, P./Katharina Maniura-Weber, K. Macrophage Polarization by Titanium Dioxide (TiO2) Particles: Size Matters. ACS Biomaterials Science & Engineering. 2016, 2, 6, 908–919 (joint paper) ■
	Schubert, M./Fey, A./Ihssen, J./Safer, M. Statistical approach for modeling the laccase-mediated synthesis of the biocidal compound iodine. Journal of Biotechnology. High Performance Ceramics4, online ✹
	Schulenburg, C./Faccio, G./D. Jankowska, D./Maniura-Weber, K./Richter, M. A FRET-based biosensor for the detection of neutrophil elastase. Analyst. 2016, 141, 5, 1645–1648 ✹
	Sobral, J. M./Malheiro, V. N./Clyne, T. W./Harris, J./Rezk, R./O'Neill, W./Markaki, A. E. An accelerated buoyancy adhesion assay combined with 3-D morphometric analysis for assessing osteoblast adhesion on microgrooved substrata. Journal of the Mechanical Behavior of Biomedical Materials. 2016, 60, 22–37 ■
	Stiefel, P./Mauerhofer, S./Schneider, J./Maniura-Weber, K./Rosenberg, U./Ren, Q. Enzymes Enhance Biofilm Removal Efficiency of Cleaners. Antimicrobial Agents and Chemotherapy. 2016, 60, 6, 3647–3652 ✹
	Stiefel, P./Rosenberg, U./Schneider, J./Mauerhofer, S./Maniura-Weber, K./Ren, Q. Is biofilm removal properly assessed? Comparison of different quantification methods in a 96-well plate system. Applied Microbiology and Biotechnology. 2016, 100, 9, 4135–4145 ✹
	Wu, S./Zuber, F./Brugger, J./Maniura-Weber, K./Ren, Q. Antibacterial Au nanostructured surfaces. Nanoscale. 2016, 8, 5, 2620–2625 ■
	Zare-Eelanjegh, E./Bora, D. K./Rupper, P./Schrantz, K./Thöny-Meyer, L./Maniura-Weber, K./Richter, M./Faccio, G. Affinity-Driven Immobilization of Proteins to Hematite Nanoparticles. ACS Applied Materials & Interfaces. 2016, 8, 31, 20432–20439 (joint paper) ■
Center for X-ray Analytics	**Albani, D./Vilé, G./Beltran Toro, M. A./Kaufmann, R./Mitchella, S./Pérez-Ramírez, J.** Structuring hybrid palladium nanoparticles in metallic monolithic reactors for continuous-flow three-phase alkyne hydrogenation. Reaction Chemistry & Engineering. 2016, 1, 4, 454–462 ✹
	Albertin, F./Patera, A./Jerjen, I./Hartmann, S./Peccenini, E./Kaplan, F./Stampanoni, M./Kaufmann, R./Margaritondo, G. Virtual reading of a large ancient handwritten science . Microchemical Journal. 2016, 125, 185–189 ✹
	Beltran, M. A./Petersen, T. C./Kitchen, M. J./Paganin, D. M. Extraction of depth moments by exploiting the partial coherence of radiation. Journal of Optics. 2016, 18, 7, Article number 07LT02 (6 pp) ✹
	Caspari, P./Nueesch, F./Neels, A./Opris, D. M. Mild synthesis of mercaptonitriles from vinyl nitriles and their cyclization reactions. RSC Advances. 2016, 6, 100, 98059–98065 (joint paper) ■
	Cavalli, M. C./Griffa, M./Bressi, S./Partl, M. N./Tebaldi, G./Poulikakos, L. D. Multiscale imaging and characterization of the effect of mixing temperature on asphalt concrete containing recycled components. Journal of Microscopy. 2016, 264, 1, 22–33 (joint paper) ✹
	Di Bella, C./Griffa, M./Ulrich, T. J./Lura, P. Early-age elastic properties of cement-based materials as a function of decreasing moisture content. Cement and Concrete Research. 2016, 89, 87–96 (joint paper) ✹
	Flisch, A./Lüthi, T./Plamondon, M./Hartmann, S./Visser, W./Schwaninger, A./Hardmeier, D./Costin, M./Vienne, C./Sukowski, F./Haßler, U./Dorion, I./Canonica, A./Rochat, E./Koomen, G./Slegt, M. ACXIS – Automated comparison of X-ray images for cargo scanning. Future Security 2016. Special Session: Airport Security. 2016, 435–442
	Hufenus, R./Gottardo, L./Leal, A. A./Zemp, A./Heutschi, K./Schuetz, P./Meyer, V. R./Heuberger, M. Melt-spun polymer fibers with liquid core exhibit enhanced mechanical damping. Materials & Design. 2016, 110, 685–692 (joint paper) ■

Center for X-ray Analytics	
	Ibrahim, M./Balogh-Michels, Z./Stender, P./Baither, D./Schmitz, G. Nucleation controlled reaction of Cu3Si in the field of sharp concentration gradient. Acta materialia. 2016, 112, 315–325 ✹
	Isa, F./Jung, A./Salvalaglio, M./Arroyo Rojas Dasilva, Y./Meduňa, M./Barget, M./Kreiliger, T./Isella, G./Erni, R./Pezzoli, F./Bonera, E./Niedermann, P./Zweiacker, K./Neels, A./Dommann, A./Gröning, P./Montalenti, F./von Känel, H. Elastic and Plastic Stress Relaxation in Highly Mismatched SiGe/Si Crystals. Materials Research Society Advances. 2016, 1, 50, 3403–3408 (joint paper)
	Kiunke, M./Stritt, C./Schielein, R./Sukowski, F./Hölzing, A./Zabler, S./Hofmann, J./Flisch, A./Kasperl, S./Sennhauser, U./Hanke, R. ROSI and GEANT4 – A comparison in the context of high energy X-ray physics. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms. 2016, 377, 50–58 (joint paper) ✹
	Kolokytha, S./Flisch, A./Lüthi, T./Plamondon, M./Hartmann, S./Visser, W./Schwaninger, A./Hardmeier, D./Costin, M./Vienne, C./Sukowski, F./Hassler, U./Dorion, I./Canonica, A./Rochat, E./Koomen, G./Slegt, M. Creating a reference database of cargo inspection X-ray images using high energy CT of cargo mock-ups. 2016 IEEE International Conference on Imaging Systems and Techniques (IST 2016). 2016, 6 pp
	Leal, A. A./Naeimirad, M./Gottardo, L./Schuetz, P./Zadhoush, A./Hufenus, R. Microfluidic behavior in melt-spun hollow and liquid core fibers. International Journal of Polymeric Materials and Polymeric Biomaterials. 2016, 65, 9, 451–456 (joint paper) ■
	Leal, A. A./Veeramachaneni, J. C./Reifler, F. A./Amberg, M./Stapf, D./Barandun, G. A./Hegemann, D./Hufenus, R. Novel approach for the development of ultra-light, fully-thermoplastic composites. Materials & Design. 2016, 93, 334–342 (joint paper) ■
	Liu, Y./Beyer, A./Hofmann, J./Flisch, A./Sennhauser, U. Reducing volumetric artifacts in computed tomography by cooperative data fusion. International Conference on Combined Digital Optical & Imaging Methods Applied to Mechanical Engineering. 2016, 149–152 (joint paper)
	Liu, Y./Beyer, A./Schuetz, P./Hofmann, J./Flisch, A./Sennhauser, U. Cooperative data fusion of transmission and surface scan for improving limited-angle computed tomography reconstruction. NDT&E International. 2016, 83, 4, 24–31 (joint paper) ✹
	Lüthi, T./Flisch, A./Plamondon, M./Hardmeier, D./Visser, W. Digital radiography for cargo inspection – data acquisition and evaluation. 19th World Conference on Non-Destructive Testing 2016. 2016, 7 pp
	Neels, A./Kaufmann, R./Bauer, M./Dalle Vacche, S./Leterrier, Y./Dommann, A. X-ray studies on polymers and composites: the combination of 2D WAXS, SAXS and X-ray imaging techniques. 30th European Crystallographic Meeting, Acta Crystallographica Section A: Foundations and Advances. 2016, A72, S139 (joint paper) ✹
	Reifler, F.A./Hufenus, R. Structural response of melt-spun poly(3-hydroxybutyrate) fibers to heat and stress investigated by wide-angle X-ray diffraction (WAXD) and small-angle X-ray scattering (SAXS). 30th European Crystallographic Meeting, Acta Crystallographica Section A: Foundations and Advances. 2016, A72, S423–S424 (joint paper) ✹
	Schifferle, A./Bandi, T./Neels, A./Dommann, A. Where is the limit? Yield strength improvement in silicon micro-structures by surface treatments. Physica Status Solidi A. 2016, 213 (1), 102–107 (joint paper) ✹
	Scopece, D./Döbeli, M./Passerone, D./Maeder, X./Neels, A./Widrig, B./Dommann, A./Müller, U./Ramm, J. Silicon etch with chromium ions generated by a filtered or non-filtered cathodic arc discharge. Science and Technology of Advanced Materials. 2016, 17, 1, 20–28 (joint paper) ✹
	Sedighi Gilani, M./Pflaum, J./Hartmann, S./Kaufmann, R./Baumgartner, M./Schwarze, F. W. M. R. Relationship of vibro-mechanical properties and microstructure of wood and varnish interface in string instruments. Applied Physics A: Materials Science and Processing. 2016, 122, 4, Art. . 260 (11 pp) (joint paper) ✹
	Stelzner, J./Gauß, F./Schuetz, P. X-ray computed tomography for non-destructive analysis of early Medieval swords. Studies in Conservation. 2016, 61, 2, 86–101 ■
	Stritt, C./Schuetz, P./Plamondon, M./Flisch, A./Hofmann, J./Sennhauser, U. Quantitative Untersuchung der Streubeiträge in Hochenergie-Röntgencomputertomografie. Materials Testing. 2016, 58, 2, 122–126 (joint paper) ■
	Visser, W./Schwaninger, A./Flisch, A./Costin, M./Vienne, C./Sukowski, F./Hassler, U./Dorion, I./Marciano, A./Koomen, G./Slegt, M./Canonica, A. C. Automated comparison of X-ray images for cargo scanning. The 50th Anniversary of the International Carnahan Conference on Security Technology. 2016, 8 pp
	von Allmen, K.D./Linden, A./Patzke, G.R. From 0D to 3D – The structural diversity of polyoxometalate catalysts. 30th European Crystallographic Meeting, Acta Crystallographica Section A: Foundations and Advances. 2016, A72, S365–S366 ✹
	Yang, F./Griffa, M./Bonnin, A./Mokso, R./Di Bella, C./Münch, B./Kaufmann, R./Lura, P. Visualization of water drying in porous materials by X-ray phase contrast imaging. Journal of Microscopy. 2016, 261, 1, 88–104 (joint paper) ✹

Center for X-ray Analytics	**Yang, F./Griffa, M./Hipp, A./Derluyn, H./Moonen, P./Kaufmann, R./Boone, M. N./Beckmann, F./Lura, P.** Advancing the visualization of pure water transport in porous materials by fast, talbot interferometry-based multi-contrast x-ray micro-tomography. Proceedings of SPIE. 2016, 9967, Article number 99670L (18 pp) (joint paper)
	Zoltán, B.M./Zweiacker, K./Zhang, Y./Jung, A./Flötgen, C./Chahine, G./Dommann, A./Erni, R./von Känel, H./Neels, A. HRXRD analysis of bonded Si /Si interface. 30th European Crystallographic Meeting, Acta Crystallographica Section A: Foundations and Advances. 2016, A72, S299–S300 (joint paper) ✹
	Zweiacker, K./McKeown, J. T./Liu, C./LaGrange, T./Reed, B. W./Campbell, G. H./Wiezorek, J. M. K. Determination of crystal growth rates during rapid solidification of polycrystalline aluminum by nano-scale spatio-temporal resolution in situ transmission electron microscopy. Journal of Applied Physics. 2016, 120, 5, Article number 055106 (12pp) ✹
Particles-Biology Interactions	**Buerki-Thurnherr, R./Muoth, C./Aengenheister, L./Kucki, M./Manser, P./Diener, L./Wichser, A./Schönenberger, R./Jochum, W./Wick, P.** Establishment of novel advanced in vitro models of the human placental barrier for nanoparticle translocation and effect studies: Reproductive Toxicology. 2016, 64, 25 (1 pp.) (joint paper) ✹
	Civardi, C./Schlagenhauf, L./Kaiser, J. P./Hirsch, C./Mucchino, C./Wichser, A./Wick, P./Schwarze, F. W. M. R. Release of copper-amended particles from micronized copper-pressure-treated wood during mechanical abrasion: Journal of Biotechnology. 2016, 14, 77 (10 pp.)–53 (joint paper) ✹
	Civardi, C./Schlagenhauf, L./Kaiser, J.P./Hirsch, C./Mucchino, C./Wichser, A./Wick, P./Schwarze, F.W.M.R. Release of copper-amended particles from micronized copper-pressure-treated wood during mechanical abrasion. Journal of Nanobiotechnology. 2016, 14, 77 (10 pp.) (joint paper) ■
	Civardi, C./Van den Bulcke, J./Schubert, M./Michel, E./Butron, M. I./Boone, M. N./Dierick, M./Van Acker, J./Wick, P./Schwarze, F. W. M. R. Penetration and effectiveness of micronized copper in refractory wood species. Plos One. 2016, 11, 9, e0163124 (14 pp) (joint paper) ■
	Flamant, Q./Caravaca, C./Meille, S./Gremillard, L./Chevalier, J./Biotteau-Deheuvels, K./Kuntz, M./Chandrawati, R./Herrmanne, I. K./Spicer, C. D./Stevens, M. M./Anglada, M. Selective etching of injection molded zirconia-toughened alumina: Towards osseointegrated and antibacterial ceramic implants. Acta Biomaterialia. 2016, 46, 308–322 ✹
	Herrmann, I. K./Beck-Schimmer, B./Schumacher, C. M./Gschwind, S./Kaech, A./Ziegler, U./Clavien, P. -A/Günther, D./Stark, W. J./Graf, R./Schlegel, A. A. In vivo risk evaluation of carbon-coated iron carbide nanoparticles based on short- and long-term exposure scenarios. Nanomedicine. 2016, 11, 7, 783–796 ■
	Herrmann, I. K./Rösslein, M. Personalized medicine: the enabling role of nanotechnology. Nanomedicine. 2016, 11, 1, 3 pp ■
	Jacobson, M./Roth Z'graggen, B./Graber, S. M./Schumacher, C. M./Stark, W. J./Dumrese, C./Mateos, J. M./Aemisegger, C./Ziegler, U./Urner, M./Herrmann, I. K./Beck-Schimmer, B. Uptake of ferromagnetic carbon-encapsulated metal nanoparticles in endothelial cells: influence of shear stress and endothelial activation. Nanomedicine. 2015, 10, 24, 3537–3546 ■
	Kucki, M./Rupper, P./Sarrieu, C./Melucci, M./Treossi, E./Schwarz, A./León, V./Kraegeloh, A./Flahaut, E./Vázquez, E./Palermo, V./Wick, P. Interaction of graphene-related materials with human intestinal cells: an in vitro approach. Nanoscale. 2016, 8, 16, 8749–8760 (joint paper) ✹
	Lattuada, M./Ren, Q./Zuber, F./Galli, M./Bohmer, N./Matter, M. T./Wichser, A./Bertazzo, S./Piere, G. B./Herrmann, I. K. Theranostic body fluid cleansing: rationally designed magnetic particles enable capturing and detection of bacterial pathogens. Journal of Materials Chemistry B: Materials for biology and medicine. 2016, 4, 44, 7080–7086 (joint paper) ✹
	Mukherjee, S.P./Lozano, N./Kucki, M./Del Rio-Castillo, A.E./Newman, L./Vázquez, E./Kostarelos, K./Wick, P./Fadeel, B. Detection of endotoxin contamination of graphene based materials using the TNF-α expression test and guidelines for endotoxin-free graphene oxide production. Plos One. 2016, 11, 11, e0166816 (17 pp.) ■
	Muoth, C./Aengenheister, L./Kucki, M./Wick, P./Buerki-Thurnherr, T. Nanoparticle transport across the placental barrier: pushing the field forward!. Nanomedicine. 2016, 11, 8, 941–957 ■
	Muoth, C./Rottmar, M./Schipanski, A./Gmuender, C./Maniura-Weber, K./Wicka, P./Buerki-Thurnherr, T. A micropatterning approach to study the influence of actin cytoskeletal organization on polystyrene nanoparticle uptake by BeWo cells. RSC Advances. 2016, 6, 76, 72827–72835 (joint paper) ■
	Muoth, C./Wichser, A./Monopoli, M./Correia, M./Ehrlich, N./Loeschner, K./Gallud, A./Kucki, M./Diener, L./Manser, P./Jochum, W./Wick, P./Buerki-Thurnherr, T. A 3D co-culture microtissue model of the human placenta for nanotoxicity assessment. Nanoscale. 2016, 8, 39, 17322–17332 (joint paper) ✹

Particles-Biology Interactions	**Nau, K./Bohmer, N./Kühnel, D./Marquardt, C./Paul, F./Steinbach, C./Krug, H. F.** The Dana 2.0 Knowledge base on nanomaterials – communicating current nanosafety research based on evaluated literature data. Journal of Materials Education. 2016, 38, 3–4, 93–108 (joint paper) ■
	Obarzanek-Fojt, M./Curdy, C./Loggia, N./Di Lena, F./Grieder, K./Bitar, M./Wick, P. Tracking immune-related cell responses to drug delivery microparticles in 3D dense collagen matrix. European Journal of Pharmaceutics and Biopharmaceutics. 2016, 107, 180–190 (joint paper) ✹
	Schoenenberger, A. D./Schipanski, A./Malheiro, V./Kucki, M./Snedeker, J. G./Wick, P./Katharina Maniura-Weber, K. Macrophage Polarization by Titanium Dioxide (TiO2) Particles: Size Matters. ACS Biomaterials Science & Engineering. 2016, 2, 6, 908–919 (joint paper) ■
	Spyrogianni, A./Herrmann, I. K./Lucas, M. S./Leroux, J. G./Sotiriou, G. A. Quantitative analysis of the deposited nanoparticle dose on cell cultures by optical absorption spectroscopy. Nanomedicine. 2016, 11, 19, 2483–2496 ■
	Toman, B./Rösslein, M./Elliott, J. T./Petersen, E. J. Estimation and uncertainty analysis of dose response in an inter-laboratory experiment. Metrologia. 2016, 53, 1, S40–S45 ✹
	Ulrich, S./Hirsch, C./Diener, L./Wick, P./Rossi, R. M./Bannwarth, M. B./Boesel, L. F. Preparation of ellipsoid-shaped supraparticles with modular compositions and investigation of shape-dependent cell-uptake. RSC Advances. 2016, 6, 92, 89028–89039 (joint paper) ■
Protection and Physiology	**Abrishamkar, A./Paradinas, M./Bailo, E./Rodriguez-Trujillo, R./Pfattner, R./Rossi, R. M./Ocal, C./deMello, A. J./Amabilino, D. B./Puigmartí-Luis, J.** Microfluidic Pneumatic Cages: A Novel approach for In-chip Crystal Trapping, Manipulation and Controlled Chemical Treatment. Journal of Visualized Experiments. 2016, 113, 7 pp (e54193) ■
	Ade, N./Stämpfli, R./Schmitt, K. U. Evaluating airbag safety vests for equestrian sports. Journal of Testing and Evaluation. 2016, 44, 6, 9 pp ✹
	Annaheim, S./Jacob, M./Krafft, A./Breymann, C./Rehm, M./Boutellier, U. RhEPO improves time to exhaustion by non-hematopoietic factors in humans. European Journal of Applied Physiology. 2016, 116, 3, 623–633 ✹
	Bandera, D./Meyer, V. R./Prevost, D./Zimmermann, T./Boesel, L. F. Polylactide/Montmorillonite Hybrid Latex as a Barrier Coating for Paper applications. Polymers. 2016, 8, 3, 75– (joint paper) ■
	Best, J. P./Zechner, J./Shorubalko, I./Oboňa, J. V./Wehrs, J./Morstein, M./Michler, J. A comparison of three different notching ions for small-scale fracture toughness measurement. Scripta Materialia. 2016, 112, 71–74 ■
	Dąbrowska, A. K./Adlhart, C./Spano, F./Rotaru, G. M./Derler, S./Zhai, L./Spencer, N. D./Rossi, R. M. In vivo confirmation of hydration-induced changes in human-skin thickness, roughness and interaction with the environment. Biointerphases: a Journal of Biomaterials and Biological Interfaces. 2016, 11, 3, Art. . 031015 (10 pp) ■
	Dąbrowska, A. K./Rotaru, G. -M/Derler, S./Spano, F./Camenzind, M./Annaheim, S./Stämpfli, R./Schmid, M./Rossi, R. M. Materials used to simulate physical properties of human skin. Skin Research and Technology. 2016 online ✹
	Faccio, G./Bannwarth, M. B./Schulenburg, C./Steffen, V./Jankowska, D./Pohl, M./Rossi, R. M./Maniura-Weber, K./Boesel, L. F./Richter, M. Encapsulation of FRET-based glucose and maltose biosensors to develop functionalized silica nanoparticles. Analyst. 2016, 141, 15, 3982–5984 (joint paper) ✹
	Fontana, P./Rossi, R./Annaheim, S. Die Regulation der Körpertemperatur. Teil 1: Die Untersuchung des thermo-physiologischen Einflusses von Feuerwehrbekleidung im Labor. Schweizerische Feuerwehr-Zeitung: 118 swissfire.ch. 2015, 11, 44–47
	Fontana, P./Rossi, R./Annaheim, S. Gesundheit und Leistungsfähigkeit des AdF. Teil 3: Implikationen – Minimierung des thermischen Stresses. Schweizerische Feuerwehr-Zeitung: 118 swissfire.ch. 2016, 3, 45–47
	Fontana, P./Rossi, R./Annaheim, S. Umgebungsbedingungen von Feuerwehrleuten. Teil 2: (Thermo-)Physiologische Untersuchung der Feuerwehrbekleidung im Brandcontainer. Schweizerische Feuerwehr-Zeitung: 118 swissfire.ch. 2016, 1, 43–45
	Gutt, B./Kehl, K./Ren, Q./Boesel, L. F. Using ANOVA models to compare and optimize extraction protocols of P3HBHV from Cupriavidus necator. Industrial & Engineering Chemistry Research. 2016, 55, 39, 10355–10365 (joint paper) ✹
	Hendrickx, R./Desmarais, G./Weder, M./Ferreira, E. S. B./Derome, D. Moisture uptake and permeability of canvas paintings and their components. Journal of Cultural Heritage. 2016, 19, 445–453 (joint paper) ■
	Hu, Y./Boudoire, F./Herrmann-Geppert, I./Bogdanoff, P./Tsekouras, G./Mun, B. S./Fortunato, G./Grätzel, M./Braun, A. Molecular Origin and Electrochemical Influence of Capacitive Surface States on Iron Oxide Photoanodes. Journal of Physical Chemistry C. 2016, 120, 6, 3250–6258 (joint paper) ✹
	Kakvan, A./Shaikhzadeh Najar, S./Psikuta, A. Analysis of the Thermal Comfort Properties and Heat Protection Performance of Cotton/Nylon-Kermel Fabrics. Journal of Textiles and Polymers. 2016, 4, 1, 37–44

Protection and Physiology	**Kołbuk, D./Guimond-Lischer, S./Sajkiewicz, P./Maniura-Weber, K./Fortunato, G.** Morphology and surface chemistry of bicomponent scaffolds in terms of mesenchymal stromal cell viability. Journal of Bioactive and Compatible Polymers: Biomedical applications. 2016, 31, 4, 423–436 (joint paper) ✹
	Lay-Ekuakille, A./Griffo, G./Conversano, F./Casciaro, S./Massaro, A./Bhateja, V./Spano, F. EEG signal processing and acquisition for detecting abnormalities via bio-implantable devices. 2016 IEEE International Conference on Medical Measurements and applications (MeMeA). 2016, 5 pp
	Lay-Ekuakille, A./Griffo, G./Massaro, A./Spano, F./Gigli, G. Experimental characterization of an implantable neuro-packaging for EEG signal recording and measurement. Measurement. 2016, 79, 321–330 ■
	MacRae, B. A./Laing, R. M./Partsch, H. General considerations for compression garments in sports: Applied pressures and body coverag. Compression garments in sports: athletic performance and recovery. 2016, 32 pp
	Martínez, N./Psikuta, A./Kuklane, K./Priego Quesada, J.I./Cibrián Ortiz de Anda, R.M./Soriano, P.P./Palmer, R.S./Corberán, J.M./Rossi, R.M./Annaheim, S. Validation of the thermophysiological model by Fiala for prediction of local skin temperatures. International Journal of Biometeorology. 2016, 60, 12, 1969–1982 ✹
	Martínez, N./Psikuta, A./Rossi, R. M./Corberán, J. M./Annaheim, S. Global and local heat transfer analysis for bicycle helmets using thermal head manikins. International Journal of Industrial Ergonomics. 2016, 53, 157–166 ✹
	Mert, E./Böhnisch, S./Psikuta, A./Bueno, M.A./Rossi, R.M. Contribution of garment fit and style to thermal comfort at the lower body. International Journal of Biometeorology. 2016, 60, 12, 1995–2004 ✹
	Meyer, V.R. High Pressure Liquid Chromatography and Ultra-high Pressure Liquid Chromatography of Plants: Basic Concepts. Encyclopedia of Analytical Chemistry. High Performance Ceramics4, 1–20
	Naeimirad, M./Zadhoush, A./Abrishamkar, A./Pishevar, A./Leal, A. A. Melt-spun liquid core fibers: physical and morphological characteristics. Iranian Polymer Journal. 2016, 25, 5, 397–403 (joint paper) ■
	Priego Quesada, J. I./Martínez, N./Salvador Palmer, R./Psikuta, A./Annaheim, S./Rossi, R. M./Corberán, J. M./Cibrián Ortiz de Anda, R. M./Pérez-Soriano, P. Effects of the cycling workload on core and local skin temperatures. Experimental Thermal and Fluid Science. 2016, 77, 91–99 ■
	Psikuta, A./Kuklane, K./Bogdan, A./Havenith, G./Annaheim, S./Rossi, R. M. Opportunities and constraints of presently used thermal manikins for thermo-physiological simulation of the human body. International Journal of Biometeorology. 2016, 60, 3, 435–446 ✹
	Rao, J./Zhang, H./Gaan, S./Salentinig, S. Self-Assembly of Polystyrene-b-poly(2-vinylpyridine) Micelles: From Solutions to Silica Particles Surfaces. Macromolecules. 2016, 49, 16, 5978–5984 (joint paper) ✹
	Riba-Moliner, M./Gómez-Rodríguez, A./Amabilino, D. B./Puigmartí-Luis, J./González-Campo, A. Functional supramolecular tetrathiafulvalene-based films with mixed valences states. Polymer. 2016, 103, 251–260 ✹
	Rodríguez-San-Miguel, D./Abrishamkar, A./Navarro, A. R./Rodriguez-Trujillo, R./Amabilino, D. B./Mas-Ballesté, R./Zamora, F./Puigmartí-Luis, J. Crystalline fibres of a covalent organic framework through bottom-up microfluidic synthesis. Chemical Communications. 2016, 52, 59, 9212–9215 ✹
	Rubio-Martinez, M./Imaz, I./Domingo, N./Abrishamkar, A./Mayor, T. S./Rossi, R. M./Carbonell, C./deMello, A. J./Amabilino, D. B./Maspoch, D./Puigmartí-Luis, J. Freezing the nonclassical crystal growth of a coordination polymer using controlled dynamic gradients. Advanced Materials. 2016, 28, 37, 8150–8155 ✹
	Schmid, M./Annaheim, S./Camenzind, M./Rossi, R. M. Determination of critical heat transfer for the prediction of materials damages during a flame engulfment test. Fire and Materials. 2016, 40, 8, 1036–1046 ■
	Schöller, K./Toncelli, C./Experton, J./Widmer, S./Rentsch, D./Vetushka, A./Martin, C. J./Heuberger, M./Housecroft, C. E./Constable, E. C./Boesel, L. F./Scherera, L. J. 2, 2′:6′, 2″-Terpyridine-functionalized redox-responsive hydrogels as a platform for multi responsive amphiphilic polymer membranes. RSC Advances. 2016, 6, 100, 97921–97930 (joint paper) ■
	Serbezeanu, D./Butnaru, I./Varganici, C. -D/Bruma, M./Fortunato, G./Gaan, S. Phosphorus-containing polyimide fibers and their thermal properties. RSC Advances. 2016, 6, 44, 38371–38379 (joint paper) ■
	Serbezeanu, D./Carja, I. -D/Sava, I./Rossi, R. M./Fortunato, G. Development of imide-type polymer fibers containing metal nanoparticles. Multiphase Polymer Systems: Micro- to Nanostructural Evolution in Advanced Technologies. 2016, 297–314
	Sorrenti, A./Rodriguez-Trujillo, R./Amabilino, D. B./Puigmartí-Luis, J. Milliseconds Make the Difference in the Far-from-Equilibrium Self-Assembly of Supramolecular Chiral Nanostructures. Journal of the American Ceramic Society. 2016, 138, 22, 6920–6923 ✹

Protection and Physiology	**Spano, F./Quarta, A./Martelli, C./Ottobrini, L./Rossi, R. M./Gigli, G./Blasi, L.** Fibrous scaffolds fabricated by emulsion electrospinning: from hosting capacity to in vivo biocompatibility. Nanoscale. 2016, 8, 17, 9293–9303 ✹
	Toncelli, C./Mylona, K./Tsapakis, M./Pergantis, S. A. Flow injection with on-line dilution and single particle inductively coupled plasma – mass spectrometry for monitoring silver nanoparticles in seawater and in marine microorganisms. Journal of Analytical Atomic Spectrometry. 2016, 31, 1430–1439 ✹
	Toncelli, C./Schoonhoven, M. J./Broekhuis, A. A./Picchioni, F. Paal-Knorr kinetics in waterborne polyketone-based formulations as modulating cross-linking tool in electrodeposition coatings. Materials & Design. 2016, 108, 718–724 ■
	Tóth, R./Walliser, R. M./Murray, N. S./Bora, D. K./Braun, A./Fortunato, G./Housecroft, C. E./Constable, E. C. A self-assembled, multicomponent water oxidation device. Chemical Communications. 2016, 52, 14, 2940–2943 (joint paper) ✹
	Ulrich, S./Hirsch, C./Diener, L./Wick, P./Rossi, R. M./Bannwarth, M. B./Boesel, L. F. Preparation of ellipsoid-shaped supraparticles with modular compositions and investigation of shape-dependent cell-uptake. RSC Advances. 2016, 6, 92, 89028–89039 (joint paper) ■
	Wang, F./Shi, W./Lu, Y./Song, G./Rossi, R. M./Anaheim, S. Effects of moisture content and clothing fit on clothing apparent 'wet' thermal insulation: A thermal manikin study. Textile Research Journal. 2016, 86, 1, 57–63 ✹
Reliability Science and Technology	**Adams, D. J.** Quantum mechanical theory diffusion in solids. An application to H in silicon and Li in LiFePO4. Solid State Ionics. 2016, 290, 116–120 ✹
	Adams, D. J./Passerone, D. Insight into structural phase transitions from the decoupled anharmonic mode approximation. Journal of Physics Condensed Matter. 2016, 28, 30, Article number 305401 (10 pp) (joint paper) ✹
	Bissig, B./Guerra-Nurez, C./Carron, R./Nishiwaki, S./La Mattina, F./Pianezzi, F./Losio, P. A./Avancini, E./Reinhard, P./Haass, S. G./Lingg, M./Feurer, T./Utke, I./Buecheler, S./Tiwari, A. N. Surface passivation for reliable measurement of bulk electronic properties of heterojunction devices. Small. 2016, 12, 38, 5339–5346 (joint paper) ✹
	Buchheim, J./Wyss, R. M./Shorubalko, I./Park, H. G. Understanding the interaction between energetic ions and freestanding graphene towards practical 2D perforation. Nanoscale. 2016, 8, 15, 8345–8354 ✹
	Cuervo-Reyes, E. Why the dipolar response in dielectrics and spin-glasses is unavoidably universal. Scientific s. 2016, 6, 9 pp (Art. . 29021) ✹
	Hack, E./Rastogi, P. K. International Conference on Processes in Combined Digital Optical and Imaging Methods. 2016–
	Hack, E. An inter-laboratory study of the calibration of optical full-field systems for measuring deformation. Journal of strain analysis for engineering design. 2016, 51, 1, 90–98 ✹
	Hack, E./Lampeas, G./Patterson, E. A. An evaluation of a protocol for the validation of computational solid mechanics models. Journal of strain analysis for engineering design. 2016, 51, 1, 5–13 ✹
	Hack, E./Valzania, L./Gäumann, G./Shalaby, M./Hauri, C. P./Zolliker, P. Comparison of Thermal Detector Arrays for Off-Axis THz Holography and Real-Time THz Imaging. Sensors. 2016, 16, 2, 221 (12 pp) ■
	Hack, E./Valzania, L./Zolliker, P. Terahertz imaging of biomechanical interfaces. SPIE Newsroom: Biomedical Optics & Medical Imaging. 2016, 3 pp
	Held, M./Brönnimann, R. Safe cell, safe battery? Battery fire investigation using FMEA, FTA and practical experiments. Microelectronics Reliability. 2016, 64, 705–710 ✹
	Held, M./Sennhauser, U. Stress-induced Ageing of Lithium-Ion Batteries. Chimia. 2015, 69, 12, 737–740 ✹
	Jacob, P. Capacitors-The Helpers of Active Devices: A Failure Analyst's (Re)view. Electronic Device Failure Analysis. 2015, 17, 4, 22–28
	Jacob, P. Early life field failures in modern automotive electronics – an overview; root causes and precautions. Microelectronics Reliability. 2016, 64, 79–83 ✹
	Jacob, P. Failure mechanisms and precautions in plug connectors and relays. Microelectronics Reliability. 2016, 64, 693–698 ✹

Reliability Science and Technology	**Jacob, P./Pecnik, C./Nicoletti, G./Broennimann, R.** Recovering contacting interfaces in packaging and in semiconductor devices: mechanisms and how to handle them in analysis. 23rd International Symposium on the Physical and Failure Analysis of Integrated Circuits (IPFA 2016). 2016, 6 pp
	Kiunke, M./Stritt, C./Schielein, R./Sukowski, F./Hölzing, A./Zabler, S./Hofmann, J./Flisch, A./Kasperl, S./Sennhauser, U./Hanke, R. ROSI and GEANT4 – A comparison in the context of high energy X-ray physics. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms. 2016, 377, 50–58 (joint paper) ✹
	Ko, Y. S./Cuervo-Reyes, E./Nüesch, F. A./Opris, D. M. Temperature Dependent Impedance Spectroscopy and Thermally Stimulated Depolarization Current (TSDC) Analysis of Disperse Red 1-co-Poly(methyl methacrylate) Copolymers. Proceedings of SPIE. 2016, 9798, Article number 97981I (9 pp) (joint paper)
	Liu, Y./Beyer, A./Hofmann, J./Flisch, A./Sennhauser, U. Reducing volumetric artifacts in computed tomography by cooperative data fusion. International Conference on Combined Digital Optical & Imaging Methods Applied to Mechanical Engineering. 2016, 149–152 (joint paper)
	Liu, Y./Beyer, A./Schuetz, P./Hofmann, J./Flisch, A./Sennhauser, U. Cooperative data fusion of transmission and surface scan for improving limited-angle computed tomography reconstruction. NDT&E International. 2016, 83, 4, 24–31 (joint paper) ✹
	Meier, U./Brönnimann, R./Anderegg, P. Two examples of post-tensioned CFRP cables in bridge construction: one in rehabilitation, one in new construction: Proceedings of the Eighth International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016). 2016, 1069–1074 (joint paper)
	Meier, U./Brönnimann, R./Anderegg, P./Terrasi, G. P./Motavalli, M./Czaderski, C. Carbon fiber reinforced composites proved to be very successful in construction during a quarter of a century. ECCM17 – 17th European Conference on Composite Materials. 2016, 8pp– (joint paper)
	Neuenschwander, J./Furrer, R./Roemmeler, A. Application of air-coupled ultrasonics for the characterization of polymer and polymer-matrix composite samples. Polymer Testing. 2016, 56, 379–386 ✹
	Osowiecki, G. D./Madi, M./Shorubalko, I./Philipoussis, I./Alberti, E./Scharf, T./Herzig, H. P. Standing wave integrated Fourier transform spectrometer for imaging spectrometry in the near infrared. Proceedings of SPIE – The International Society for Optical Engineering. 2015, 9611, Article number 96110P (7 pp)
	Pilet, N./Lisunova, Y./Lamattina, F./Stevenson, S. E./Pigozzi, G./Paruch, P./Fink, R. H./Hug, H. J./Quitmann, C./Raabe, J. A single probe for imaging photons, electrons and physical forces. Nanotechnology. 2016, 27, Article number 235705 (9 pp) ✹
	Sangeetha, N. S./Cuervo-Reyes, E./Pandey, A./Johnston, D. C. EuCo2P2: A model molecular-field helical Heisenberg antiferromagnet. Physical Review B – Condensed Matter and Materials Physics. 2016, 94, 1, Article number 014422 (18 pp) ✹
	Sedighi Gilani, M./Neuenschwander, J./Heeb, M./Furrer, R./Sanabria, S. J./Stoel, B. C./Schwarze, F. W. M. R. Influence of incubation time on the vibration and mechanics of Mycowood. Holzforschung. 2016, 70, 6, 557–565 (joint paper) ✹
	Shorubalko, I./Pillatsch, L./Utke, I. Direct–write milling and deposition with noble gases. Helium ion microscopy. 2016, 355–393 (joint paper)
	Stritt, C./Schuetz, P./Plamondon, M./Flisch, A./Hofmann, J./Sennhauser, U. Quantitative Untersuchung der Streubeiträge in Hochenergie-Röntgencomputertomografie. Materials Testing. 2016, 58, 2, 122–126 (joint paper) ■
	Thodkar, K./El Abbassi, M./Lüönd, F./Overney, F./Schönenberger, C./Jeanneret, B./Calame, M. Comparative study of single and multi domain CVD graphene using large-area Raman mapping and electrical transport characterization. Physica Status Solidi (RRL) – Rapid Research Letters. 2016, 10, 11, 807–811 ✹
	Valzania, L./Zolliker, P./Hack, E. Topography of a fingertip through combined THZ holography and optical fringe projection. International Conference on Processes in Combined Digital Optical and Imaging Methods Applied to Mechanical Engineering. 2016, 145–148
	Zhang, H./Niesen, B./Hack, E./Jenatsch, S./Wang, L./Véron, A. C./Makha, M./Schneider, R./Arroyo, Y./Hany, R./Nüesch, F. Cyanine tandem and triple-junction solar cells. Organic Electronics. 2016, 30, 11, 191–199 (joint paper) ✹
	Zolliker, P./Rueggeberg, M./Hack, E. THz birefringence in wood: polarization dependent frequency gaps in THz spectra. IRMMW-THz 2016 41st International Conference on Infrared, Millimeter and Terahertz Waves. 2016, 2 pp (joint paper)
	Zolliker, P./Valzania, L./Hack, E. THz Holography with Micro-Bolometers. EMN Meeting on Terahertz Energy Materials Nanotechnology. 2016, 78–79
	Zweifel, L. P./Shorubalko, I./Lim, R. Y. H. Helium Scanning Transmission Ion Microscopy and Electrical Characterization of Glass Nanocapillaries with Reproducible Tip Geometries. ACS Nano. 2016, 10, 2, 1918–1925 ✹

	Mobility, Energy and Environment
Acoustics / Noise Control	**Amman, C./Heutschi, K./Rüttener, S.** Potenzial von Temporeduktionen innerorts als Lärmschutzmassnahme. Lärmbekämpfung. 2016, 11, 2, 43–49
	Brink, M./PIERENPieren, R./Foraster, M./Vienneau, D./Eze, I./Schaffner, E./Heritier, H./Cajochen, C./Probst-Hensch, N./Roosli, M./Wunderli, J. M. Do short-term temporal variations of noise exposure explain variance of noise annoyance?. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 11 pp
	Brink, M./Schreckenberg, D./Vienneau, D./Cajochen, C./Wunderli, J. M./Probst-Hensch, N./Röösli, M. Effects of scale, question location, order of response alternatives, and season on self-ed noise annoyance using icben scales: a field experiment. International Journal of Environmental Research and Public Health. 2016, 13, 11, 1163 (19 pp) ■
	Churchill, C./Hopkins, C. Prediction of airborne sound transmission across a timber–concrete composite floor using Statistical Energy Analysis. Applied Acoustics. 2016, 110, 145–149 ■
	Delpero, T./Schoenwald, S./Zemp, A./Bergamini, A. Structural engineering of three-dimensional phononic crystals. Journal of Sound and Vibration. 2016, 363, 156–165 (joint paper) ✹
	Dorodnitsyn, V./Van Damme, B. Analytical analysis of slow and fast pressure waves in a two-dimensional cellular solid with fluid-filled cell. Journal of Acoustical Society of America. 2016, 139, 6, 3332–3340 ✹
	Dorodnitsyn, V./Van Damme, B. Two-dimensional fluid-filled closed-cell cellular solid as an acoustic metamaterial with negative index. Physical Review B. 2016, 93, 13, Article number 134302 (5 pp) ✹
	Eggenschwiler, K. Textilien als Schallabsorber: Trockenbau Akustik. 2016, 36–39
	Eggenschwiler, K./Heutschi, K./Schäffer, B./Pieren, R./Bögli, H./Bärlocher, M. Wirkung und Beurteilung des Lärms von Windenergieanlagen. Lärmbekämpfung. 2016, 11, 5, 159–167
	Foraster, M./Eze, I. C./Vienneau, D./Brink, M./Cajochen, C./Caviezel, S./Héritier, H./Schaffner, E./Schindler, C./Wanner, M./Wunderli, J. -M/Röösli, M./Probst-Hensch, N. Long-term transportation noise annoyance is associated with subsequent lower levels of physical activity. Environment international. 2016, 91, 341–349 ■
	Genescà, M. Directional monitoring terminal for aircraft noise. Journal of Sound and Vibration. 2016, 374, 77–91 ✹
	Georgiou, F./Muñoz, R.P./Rietdijk, F./Zachos, G.
	Heritier, H./Vienneau, D./Foraster, M./Eze, I. C./Brink, M./Cajochen, C./Wunderli, J. M./Probst-Hensch, N./Röösli, M. Source-specific transportation noise mortality from heart failure and myocardial infarction in Switzerland. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 3 pp
	Heutschi, K./Bühlmann, E./Oertli, J. Options for reducing noise from roads and railway lines. Transportation Research Part A. 2016, 94, 308–322 ✹
	Hufenus, R./Gottardo, L./Leal, A. A./Zemp, A./Heutschi, K./Schuetz, P./Meyer, V. R./Heuberger, M. Melt-spun polymer fibers with liquid core exhibit enhanced mechanical damping. Materials & Design. 2016, 110, 685–692 (joint paper) ■
	Lee, A./Wunderli, J. M./Heutschi, K. Sound field estimation in courtyards. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 10 pp
	Manyoky, M./Hayek, U. W./Pieren, R./Heutschi, K./Grêt-Regamey, A. Evaluating a visual-acoustic simulation for wind park assessment. Landscape and Urban Planning. 2016, 153, 180–197 ■
	Pieren, R./Bütler, T./Heutschi, K. Auralization of Accelerating Passenger Cars Using Spectral Modeling Synthesis. Applied Sciences. 2016, 6, 1, Article . 5 (27 pp) (joint paper) ■
	Pieren, R./Wunderli, J. M./Zemp, A./Sohr, S./Heutschi, K. Auralisation of Railway Noise: A Concept for the Emission Synthesis of Rolling and Impact Noise. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 7 pp
	Poulikakos, L. D./Mayer, R. M./Heutschi, K./Soltic, P./Lees, A./Van Loo, H. Defining road and rail vehicles with a low environmental footprint. Proceedings of 6th Transport Research Arena. 2016, 10 pp (joint paper)
	Rudzik, F./Thiesse, L./Pieren, R./Wunderli, J. M./Brink, M./Probst-Hensch, N./Röösli, M./Cajochen, C. Effects of continuous and intermittent transportation noise on sleep fragmentation. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 11 pp
	Santoni, A./Bonfiglio, P./Fausti, P./Schoenwald, S./Tröbs, H. M. Sound radiation efficiency measurements on cross-laminated timber plates. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 11 pp

Acoustics / Noise Control	**Santoni, A./Schoenwald, S./Van Damme, B./Tröbs, H. M./Fausti, P.** Average sound radiation model for orthotropic cross laminated timber plates. EuroRegio2016. 2016, 10 pp
	Schäffer, B./Schlittmeier, S. J./Pieren, R./Heutschi, K./Brink, M./Graf, R./Hellbrück, J. Short-term annoyance reactions to stationary and time-varying wind turbine and road traffic noise: A laboratory study. Journal of the Acoustical Society of America. 2016, 139, 5, 2949–2963 ✹
	Schoenwald, S./Zemp, A./Pedersoli, S. applicability of measurement method according to ISO 16283 in small rooms at low frequencies. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 12 pp
	Szakos, J./Glavitsch, U. Autonomes Lernen mit authentischen Materialien und SpeechIndexer. IDT High Performance Ceramics3 Medien in Kommunikation und Unterricht. 2016, 6, 205–216
	Thiesse, L./Rudzik, F./Pieren, R./Wunderli, J. M./Spiegel, K./Brink, M./Probst-Hensch, N./Röösli, M./Cajochen, C. Short-term effects of nocturnal transportation noise on glucose metabolism. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 11 pp
	Tröbs, H. M./Schoenwald, S./Zemp, A. Energy distribution and sound radiation caused by the segmentation of a glulam timber floor. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 12 pp
	Wunderli, J. M./Pieren, R./Vienneau, D./Cajochen, C./Probst-Hensch, N./Röörsli, M./Brink, M. Parameter study on IR, a metric reflecting short-term temporal variations of transportation noise exposure. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 10 pp
	Zellmann, C./Wunderli, J. M./Paschereit, C. O. The sonAIR sound source model: spectral three-dimensional directivity patterns in dependency of the flight condition. 45th International Congress and Exposition on Noise Control Engineering INTER-NOISE 2016. 2016, 9 pp
Advanced Analytical Technologies	**Abegglen, M./Brem, B. T./Elleieder, M./Durdina, L./Rindlisbacher, T./Wang, J./Lohmann, U./Sierau, B.** Chemical characterization of freshly emitted particulate matter from aircraft exhaust using single particle mass spectrometry. Atmospheric Environment. 2016, 134, 181–197 ✹
	Bachler, G./Losert, S./Umehara, Y./von Goetz, N./Rodriguez-Lorenzo, L./Petri-Fink, A./Rothen-Rutishauser, B./Hungerbuehler, K. Translocation of gold nanoparticles across the lung epithelial tissue barrier: Combining in vitro and in silico methods to substitute in vivo experiments. Particle and fibre toxicology. 2015, 12, 18 pp ■
	Biliškov, N./Vojta, D./Kótai, L./Szilágyi, I. M./Hunyadi, D./Pasinszki, T./Grgac, S. F./Borgschulte, A./Züttel, A. High influence of potassium bromide on thermal decomposition of ammonia borane. Journal of Physical Chemistry C. 2016, 120, 44, 25276–25288 ✹
	Bisig, C./Roth, M./Müller, L./Comte, P./Heeb, N./Mayer, A./Czerwinski, J./Petri-Fink, A./Rothen-Rutishauser, B. Hazard identification of exhausts from gasoline-ethanol fuel blends using a multi-cellular human lung model. Environmental Research. 2016, 151, 789–796 ✹
	Borgschulte, A. The hydrogen grand challenge. Frontiers in Energy Research. 2016, 4, Art. . 11 (8 pp) ■
	Borgschulte, A./Delmelle, R./Duarte, R. B./Heel, A./Boillat, P./Lehmann, E. Water distribution in a sorption enhanced methanation reactor by time resolved neutron imaging. Physical Chemistry Chemical Physics. 2016, 18, 26, 17217–17223 ✹
	Brem, B./Jacob, D./Lye, R. M./Rindlishbacher, T./Sturm, I. S./Synylo, K. Local air quality. 2016, 72–95
	Buerki-Thurnherr, R./Muoth, C./Aengenheister, L./Kucki, M./Manser, P./Diener, L./Wichser, A./Schönenberger, R./Jochum, W./Wick, P. Establishment of novel advanced in vitro models of the human placental barrier for nanoparticle translocation and effect studies: Reproductive Toxicology. 2016, 64, 25 (1 pp.) (joint paper) ✹
	Callini, E./Szilágyi, P. Á./Paskevicius, M./Stadie, N. P./Réhault, J./Buckley, C. E./Borgschulte, A./Züttel, A. Stabilization of volatile Ti(BH4)3 by nano-confinement in a metal–organic framework. Chemical Science. 2016, 1, 7, 666–672 (joint paper) ✹
	Chen, S. C./Hu, Y./Pui, D. Y. H./Wang, J. Explicit expressions for the minimum efficiency and most penetrating particle size of Nuclepore filters. Journal of Aerosol Science. 2016, 100, 108–117 ✹
	Civardi, C./Schlagenhauf, L./Kaiser, J. P./Hirsch, C./Mucchino, C./Wichser, A./Wick, P./Schwarze, F. W. M. R. Release of copper-amended particles from micronized copper-pressure-treated wood during mechanical abrasion: Journal of Biotechnology. 2016, 14, 77 (10 pp.)–53 (joint paper) ✹
	Civardi, C./Schlagenhauf, L./Kaiser, J.P./Hirsch, C./Mucchino, C./Wichser, A./Wick, P./Schwarze, F.W.M.R. Release of copper-amended particles from micronized copper-pressure-treated wood during mechanical abrasion. Journal of Nanobiotechnology. 2016, 14, 77 (10 pp.) (joint paper) ■

Advanced Analytical Technologies	**Delmelle, R./Duarte, R. B./Franken, T./Burnat, D./Holzer, L./Borgschulte, A./Heel, A.** Development of improved nickel catalysts for sorption enhanced CO2 methanation. International Journal of Hydrogen Energy. 2016, 41, 44, High Performance Ceramics85–High Performance Ceramics91 ✹
	Delmelle, R./Ngene, P./Dam, B./Bleiner, D./Borgschulte, A. Promotion of hydrogen desorption from palladium surfaces by fluoropolymer coating. ChemCatChem. 2016, 8, 9, 1646–1650 ■
	Diefenbacher, P. S./Gerecke, A. C./Bogdal, C./Hungerbühler, K. Spatial Distribution of Atmospheric PCBs in Zurich, Switzerland: Do Joint Sealants Still Matter?. Environmental Science and Technology. 2016, 50, 1, 232–239 ✹
	Dilger, S./Landsmann, S./Trottmann, M./Pokrant, S. Carbon containing conductive networks in composite particle-based photoanodes for solar water splitting. Journal of Materials Chemistry A: Materials for Energy and Sustainability. 2016, 4, 43, 17087–17095 (joint paper) ✹
	Đorđević, D./Buha, J./Stortini, A. M./Mihajlidi-Zelić, A./Relić, D./Barbante, C./Gambaro, A. Mass distributions and morphological and chemical characterization of urban aerosols in the continental Balkan area (Belgrade). Environmental Science and Pollution Research. 2016, 23, 1, 851–859 ✹
	Durdina, L./Lobo, P./Trueblood, M. B./Black, E. A./Achterberg, S./Hagen, D. E./Brem, B. T./Wang, J. Response of real-time black carbon mass instruments to mini-CAST soot. Aerosol Science and Technology. 2016, 50, 9, 906–918 ✹
	Fernández, A. :Arzac, G.M./Vogt, U. F./Hosoglu, F./Borgschulte, A./deHaro, M. C. J./Montes, O./Züttel, A. Investigation of a Pt containing washcoat on SiC foam for hydrogen combustion applications. Applied Catalysis, B: Environmental. 2016, 180, 336–343 (joint paper) ✹
	He, X./Brem, B. T./Bahk, Y. K./Kuo, Y. Y./Wang, J. Effects of relative humidity and particle type on the performance and service life of automobile cabin air filters. Aerosol Science and Technology. 2016, 50, 6, 542–554 ✹
	Hess, A./Tarik, M./Losert, S./Ilari, G./Ludwig, C. Measuring air borne nanoparticles for characterizing hyphenated RDD-SMPS-IMS instrumentation. Journal of Aerosol Science. 2016, 92, 130–141 ✹
	Kühnel, R. S./Reber, D./Remhof, A./Rigi, R./Bleiner, D./Battaglia, C. «Water-in-salt» electrolytes enable the use of cost-effective aluminum current collectors for aqueous high-voltage batteries. Chemical Communications. 2016, 52, 68, 10435–10438 (joint paper) ✹
	Landsmann, S./Surace, Y./Trottmann, M./Dilger, S./Weidenkaff, A./Pokrant, S. Controlled design of functional nano-coatings: reduction of loss mechanisms in photoelectrochemical water splitting. ACS Applied Materials & Interfaces. 2016, 8, 19, 12149–12157 (joint paper) ✹
	Lattuada, M./Ren, Q./Zuber, F./Galli, M./Bohmer, N./Matter, M. T./Wichser, A./Bertazzo, S./Piere, G. B./Herrmann, I. K. Theranostic body fluid cleansing: rationally designed magnetic particles enable capturing and detection of bacterial pathogens. Journal of Materials Chemistry B: Materials for biology and medicine. 2016, 4, 44, 7080–7086 (joint paper) ✹
	Lin, F./Delmelle, R./Vinodkumar, T./Reddy, B. M./Wokaun, A./Alxneit, I. Correlation between the structural characteristics, oxygen storage capacities and catalytic activities of dual-phase Zn-modified ceria nanocrystals. Catalysis Science & Technology. 2015, 5, 7, 3556–3567 ■
	Masoudnia, L./Ruiz-Lopez, M./Bleiner, D. Table-top two-color soft X-ray laser by means of Ni-like plasmas. Physics of Plasmas. 2016, 23, 4, 043108 (12 pp)16 ✹
	Muñoz, M./Heeb, N. V./Haag, R./Honegger, P./Zeyer, K./Mohn, J./Comte, P./Czerwinski, J. Bioethanol blending reduces nanoparticle, PAH, and Alkyl- and Nitro-PAH emissions and the genotoxic potential of exhaust from a gasoline direct injection flex-fuel vehicle. Environmental Science & Technology. 2016, 50, 21, 11853–11861 (joint paper) ✹
	Muoth, C./Wichser, A./Monopoli, M./Correia, M./Ehrlich, N./Loeschner, K./Gallud, A./Kucki, M./Diener, L./Manser, P./Jochum, W./Wick, P./Buerki-Thurnherr, T. A 3D co-culture microtissue model of the human placenta for nanotoxicity assessment. Nanoscale. 2016, 8, 39, 17322–17332 (joint paper) ✹
	Och, L. M./Müller, B./März, C./Wichser, A./Vologina, E. G./Sturm, M. Elevated uranium concentrations in Lake Baikal sediments: Burial and early diagenesis. Chemical Geology. 2016, 441, 11, 92–105 ✹
	Pavlova, P. A./Zennegg, M./Anselmetti, F. S./Schmid, P./Bogdal, C./Steinlin, C./Jäggi, M./Schwikowski, M. Release of PCBs from Silvretta glacier (Switzerland) investigated in lake sediments and meltwater. Environmental Science and Pollution Research. 2016, 23, 11, 10308–10316 ✹
	Pui, D. Y. H./Cao, J./Madnell, J./Lo, C./Zhou, G./Kuehn, T. T./Lee, S. C./Wang, J./Chen, Y. 2nd UMN–CAS Bilateral Seminar on PM2.5 Science, Health Effects and Control Technologies, October 7–8, 2015, at 3M Innovation Center, Maplewood, MN, USA. Particuology. 2016, 27, 141–143 ■

Advanced Analytical Technologies	**Senn, M./Leber, H. J./Tuchschmid, M./Rizvic, N.** Blechblasinstrumentenbau in Frankreich im 19. Jh.: Analysen von Legierung und Struktur des Messings zugunsten eines historisch informierten Instrumentenbaus. Romantic Brass. Französische Hornpraxis und historisch informierter Blechblasinstrumentenbau. Symposium 2. 2016, 398–419 (joint paper)
	Strobel, A./Schmid, P./Segner, H./Burkhardt-Holm, P./Markus Zennegg, M. Persistent organic pollutants in tissues of the white-blooded Antarctic fish Champsocephalus gunnari and Chaenocephalus aceratus. Chemosphere. 2016, 161, 555–562 ✹
	Werner, I./Aldrich, A./Becker, B./Becker, D./Brinkmann, M./Burkhardt, M./Caspers, N./Campiche, S./Chèvre, N./Düring, R. A./Escher, B. I./Fischer, F./Giebner, S./Heye, K./Hollert, H./Junghans, M./Kienle, C./Knauer, K./Korkaric, M./Märkl, V./Muncke, J./Oehlmann, J./Reifferscheid, G./Rensch, D./Schäffer, A./Schiwy, S./Schwarz, S./Segner, H./Simon, E./Triebskorn, R./Vermeirssen, E. L. M./Wintgens, T./Zennegg, M. The 2015 Annual Meeting of SETAC German Language Branch in Zurich (7–10 September, 2015): Ecotoxicology and environmental chemistry—from research to application. Environmental Sciences Europe. 2016, 28, 1, 12 pp
Air Pollution / Environmental Technology	**Alastuey, A./Querol, X./Aas, W./Lucarelli, F./Pérez, N./Moreno, T./Cavalli, F./Areskoug, H./Balan, V./Catrambone, M./Ceburnis, D./Cerro, J. C./Conil, S./Gevorgyan, L./Hueglin, C./Imre, K./Jaffrezo, J. -L/Leeson, S. R./Mihalopoulos, N./Mitosinkova, M./O'Dowd, C. D./Pey, J./Putaud, J. -P/Riffault, V./Ripoll, A./Sciare, J./Sellegri, K./Spindler, G./Espen, K./Yttri, K. E.** Geochemistry of PM10 over Europe during the EMEP intensive measurement periods in summer High Performance Ceramics2 and winter High Performance Ceramics3. Atmospheric Chemistry and Physics. 2016, 16, 10, 6167–6129 ✹
	Berhanu, T. A./Satar, E./Schanda, R./Nyfeler, P./Moret, H./Brunner, D./Oney, B./Leuenberger, M. Measurements of greenhouse gases at Beromünster tall-tower station in Switzerland. Atmospheric Measurement Techniques. 2016, 9, 6, 2603–2614 ■
	Berkes, F./Hoor, P./Bozem, H./Kunkel, D./Sprenger, M./Henne, S. Airborne observation of mixing across the entrainment zone during PARADE High Performance Ceramics1. Atmospheric Chemistry and Physics. 2016, 16, 10, 6011–6025 ✹
	Bianchi, F./Tröstl, J./Junninen, H./Frege, C./Henne, S./Hoyle, C. R./Molteni, U./Herrmann, E./Adamov, A./Bukowiecki, N./Chen, X./Duplissy, J./Gysel, M./Hutterli, M./Kangasluoma, J./Kontkanen, J./Kürten, A./Manninen, H. E./Münch, S./Peräkylä, O./Petäjä, T./Rondo, L./Williamson, C./Weingartner, E./Curtius, J./Worsnop, D. R./Kulmala, M./Dommen, J./Baltensperger, U. New particle formation in the free troposphere: A question of chemistry and timing. Science. 2016, 352, 6289, 1109–1112 ✹
	Boose, Y./Kanji, Z. A./Kohn, M./Sierau, B./Zipori, A./Crawford, I./Lloyd, G./Bukowiecki, N./Herrmann, E./Kupiszewski, P./Steinbacher, M./Lohmann, U. Ice Nucleating Particle Measurements at 241 K during Winter Months at 3580 m MSL in the Swiss Alps. Journal of the Atmospheric Sciences. 2016, 73, 2203–2228 ✹
	Bozzetti, C./Daellenbach, K. R./Hueglin, C./Fermo, P./Sciare, J./Kasper-Giebl, A./Mazar, Y./Abbaszade, G./El Kazzi, M./Gonzalez, R./Shuster-Meiseles, T./Flasch, M./Wolf, R./Křepelová, A./Canonaco, F./Schnelle-Kreis, J./Slowik, J. G./Zimmermann, R./Rudich, Y./Baltensperger, U./El Haddad, I./Prévôt, A. S. H. Size-Resolved Identification, Characterization, and Quantification of Primary Biological Organic Aerosol at a European Rural Site. Environmental Science & Technology. 2016, 50, 7, 3425–3434 ✹
	Bukowiecki, N./Weingartner, E./Gysel, M./Collaud Coen, M./Zieger, P./Herrmann, E./Steinbacher, M./Gäggeler, H. W./Baltensperger, U. A Review of More than 20 Years of Aerosol Observation at the High Altitude Research Station Jungfraujoch, Switzerland (3580 m asl). Aerosol and Air Quality Research. 2016, 16, 3, 764–788 ■
	Chambers, S. D./Williams, A. G./Conen, F./Griffiths, A. D./Reimann, S./Steinbacher, M./Krummel, P. B./Steele, L. P./van der Schoot, M. V./Galbally, I. E./Molloy, S. B./Barnes, J. E. Towards a Universal «Baseline» Characterisation of Air Masses for High- and Low-Altitude Observing Stations Using Radon-222. Aerosol and Air Quality Research. 2016, 16, 3, 885–899 ■
	Chirkov, M./Stiller, G. P./Laeng, A./Kellmann, S./von Clarmann, T./Boone, C. D./Elkins, J. W./Engel, A./Glatthor, N./Grabowski, U./Harth, C. M./Kiefer, M./Kolonjari, F./Krummel, P. B./Linden, A./Lunder, C. R./Miller, B. R./Montzka, S. A./Mühle, J./O'Doherty, S./Orphal, J./Prinn, R. G./Toon, G./Vollmer, M. K./Walker, K. A./Weiss, R. F./Wiegele, A./Young, D. Global HCFC-22 measurements with MIPAS: retrieval, validation, global distribution and its evolution over 2005–High Performance Ceramics2. Atmospheric Chemistry and Physics. 2016, 16, 5, 3345–3368 ✹
	Colette, A./Aas, W./Banin, L./Braban, C. F./Ferm, M./González Ortiz, A./Ilyin, I./Mar, K./Pandolfi, M./Putaud, J. -P/Shatalov, V./Solberg, S./Spindler, G./Tarasova, O./Vana, M./Adani, M./Almodovar, P. Air pollution trends in the EMEP region between 1990 and High Performance Ceramics2: EMEP Co-operative programme for monitoring and evaluation of the long-range transmission of air pollutants in Europe. 2016, EMEP: CCC- 1/2016, 104 S.
	Eyer, S./Tuzson, B./Popa, M. E./van der Veen, C./Röckmann, T./Rothe, M./Brand, W. A./Fisher, R./Lowry, D./Nisbet, E. G./Brennwald, M. S./Harris, E./Zellweger, C./Emmenegger, L./Fischer, H./Mohn, J. Real-time analysis of δ13C- and δD-CH4 in ambient air with laser spectroscopy: method development and first intercomparison results. Atmospheric Measurement Techniques. 2016, 9, 1, 263–280 ■

Air Pollution / Environmental Technology	**Fang, S./Tans, P. P./Steinbacher, M./Zhou, L./Luan, T./Li, Z.** Observation of atmospheric CO2 and CO at Shangri-La station: results from the only regional station located at southwestern China. Tellus, Series B, Chemical and physical meteorology. 2016, 68, 28506 (13 pp) ✹
	Forkel, R./Brunner, D./Baklanov, A./Balzarini, A./Hirtl, M./Honzak, L./Jiménez-Guerrero, P./Jorba, O./Pérez, J.L./San José, R./Schröder, W./Tsegas, G./Werhahn, J./Wolke, R./Žabkar, R. A multi-model case study on aerosol feedbacks in online coupled chemistry-meteorology models within the cost action ES1004 eumetchem. Air Pollution Modeling and its application XXIV, Springer Proceedings in Complexity. 2016, 23–28
	Graziosi, F./Arduini, J./Bonasoni, P./Furlani, F./Giostra, U./Manning, A. J./McCulloch, A./O'Doherty, S./Simmonds, P. G./Reimann, S., Vollmer, M.K./Maione, M. Emissions of carbon tetrachloride from Europe. Atmospheric Chemistry and Physics. 2016, 16, 20, 12849–12859 ✹
	Helmig, D./Rossabi, S./Hueber, J./Tans, P./Montzka, S. A./Masarie, K./Thoning, K./Plass-Duelmer, C./Claude, A./Carpenter, L. J./Lewis, A. C./Punjabi, S./Reimann, S./Vollmer, M. K./Steinbrecher, R./Hannigan, J. W./Emmons, L. K./Mahieu, E./Franco, B./Smale, D./Pozzer, A. Reversal of global atmospheric ethane and propane trends largely due to US oil and natural gas production. Nature Geoscience. 2016 ✹
	Henne, S./Brunner, D./Oney, B./Leuenberger, M./Eugster, W./Bamberger, I./Meinhardt, F./Steinbacher, M./Emmenegger, L. Validation of the Swiss methane emission inventory by atmospheric observations and inverse modelling. Atmospheric Chemistry and Physics. 2016, 16, 6, 3683–3710 ✹
	Hoyle, C. R./Webster, C. S./Rieder, H. E./Nenes, A./Hammer, E./Herrmann, E./Gysel, M./Bukowiecki, N./Weingartner, E./Steinbacher, M./Baltensperger, U. Chemical and physical influences on aerosol activation in liquid clouds: a study based on observations from the Jungfraujoch, Switzerland. Atmospheric Chemistry and Physics. 2016, 16, 6, 4043–4061 ✹
	Kuhlmann, G./Hueni, A./Damm, A./Brunner, D. An algorithm for in-flight spectral calibration of imaging spectrometers: Remote Sensing. 2016, 8, 12, 24 pp. ■
	Liang, Q./Newman, P. A./Reimann, S. SPARC on the mystery of carbon tetrachloride. SPARC . 2016, 7, 67 pp
	Liu, C./Xu, L./Cao, Z./Li, F./Lin, Y. Reconstruction of temperature distribution for swirling flames using one-dimensional TDLAS tomography: 2016 IEEE International Conference on Imaging Systems and Techniques (IST 2016) . 2016, 4 pp.
	Mangold, M./Emmenegger, L./Tuzson, B./Looser, H. Cylindrical multipass reflection cells for optical trace gas sensing. CLEO: Science and Innovations 2015. 2015, 2 pp
	Mangold, M./Tuzson, B./Hundt, M./Jágerská, J./Looser, H./Emmenegger, L. Circular paraboloid reflection cell for laser spectroscopic trace gas analysis. Journal of the Optical Society of America A. 2016, 33, 5, 913–919 ✹
	Mohn, J./Gutjahr, W./Toyoda, S./Harris, E./Ibraim, E./Geilmann, H./Schleppi, P./Kuhn, T./Lehmann, M. F./Decock, C./Werner, R. A./Yoshida, N./Brand, W. A. Reassessment of the NH4NO3 thermal decomposition technique for calibration of the N2O isotopic composition. Rapid Communications in Mass Spectrometry. 2016, 30, 23, 2487–2496 ✹
	Mueller, M. D./Hasenfratz, D./Saukh, O./Fierz, M./Hueglin, C. Statistical modelling of particle number concentration in Zurich at high spatio-temporal resolution utilizing data from a mobile sensor network. Atmospheric Environment. 2016, 126, 171–181 ✹
	Muñoz, M./Heeb, N. V./Haag, R./Honegger, P./Zeyer, K./Mohn, J./Comte, P./Czerwinski, J. Bioethanol blending reduces nanoparticle, PAH, and Alkyl- and Nitro-PAH emissions and the genotoxic potential of exhaust from a gasoline direct injection flex-fuel vehicle. Environmental Science & Technology. 2016, 50, 21, 11853–11861 (joint paper) ✹
	Röckmann, T./Eyer, S./van der Veen, C./Popa, M. E./Tuzson, B./Monteil, G./Houweling, S./Harris, E./Brunner, D./Fischer, H./Zazzeri, G./Lowry, D./Nisbet, E. G./Brand, W. A./Necki, J. M./Emmenegger, L./Mohn, J. In situ observations of the isotopic composition of methane at the Cabauw tall tower site. Atmospheric Chemistry and Physics. 2016, 16, 16, 10469–10487 ✹
	Satar, E./Berhanu, T. A./Brunner, D./Henne, S./Leuenberger, M. Continuous CO2/CH4/CO measurements (High Performance Ceramics2–High Performance Ceramics4) at Beromünster tall tower station in Switzerland. Biogeosciences. 2016, 13, 18, 2623–2635 ■
	Schibig, M. F./Mahieu, E./Henne, S./Lejeune, B./Leuenberger, M. C. Intercomparison of in situ NDIR and column FTIR measurements of CO2 at Jungfraujoch. Atmospheric Chemistry and Physics. 2016, 16, 15, 9935–9949 ✹
	Simmonds, P. G./Rigby, M./Manning, A. J./Lunt, M. F./O'Doherty, S./McCulloch, A./Fraser, P. J./Henne, S./Vollmer, M. K./Mühle, J./Weiss, R. F./Salameh, P. K./Young, D./Reimann, S./Wenger, A./Arnold, T./Harth, C. M./Krummel, P. B./Steele, L. P./Dunse, B. L./Miller, B. R./Lunder, C. R./Hermansen, O./Schmidbauer, N./Saito, T./Yokouchi, Y./Park, S./Li, S./Yao, B./Zhou, L. X./Arduini, J./Maione, M./Wang, R. H. J./Ivy, D./Prinn, R. G. Global and regional emissions estimates of 1, 1-difluoroethane (HFC-152a, CH3CHF2) from in situ and air archive observations. Atmospheric Chemistry and Physics. 2016, 16, 1, 365–382 ✹

Air Pollution / Environmental Technology	**Steinbacher, M.** Environmental State and Trends. UNEP/UNECE 2016. GEO-6 Assessment for the pan-European region. 2016, 2, 47–147
	Stopelli, E./Conen, F./Morris, C. E./Herrmann, E./Henne, S./Steinbacher, M./Alewell, C. Predicting abundance and variability of ice nucleating particles in precipitation at the high-altitude observatory Jungfraujoc. Atmospheric Chemistry and Physics. 2016, 16, 13, 8341–8351 ✸
	Süess, M. J./Morten Hundt, P./Tuzson, B./Riedi, S./Wolf, J. M./Peretti, R./Beck, M./Looser, H./Emmenegger, L./Faist, J. Dual-Section DFB-QCLs for Multi-Species Trace Gas Analysis. Photonics. 2016, 3, 2, 24– ✸
	Tans, P./Zellweger, C. 18th WMO/IAEA Meeting on Carbon Dioxide, Other Greenhouse Gases and Related Tracers Measurement Techniques (GGMT-2015). 2015, GAW No. 229, 152 pp
	Tröstl, J./Herrmann, E./Frege, C./Bianchi, F./Molteni, U./Bukowiecki, N./Hoyle, C.R./Steinbacher, M./Weingartner, E./Dommen, J./Gysel, M./Baltensperger, U. Contribution of new particle formation to the total aerosol concentration at the high-altitude site Jungfraujoch (3580 m asl, Switzerland). Journal of Geophysical Research: Atmospheres. 2016, 121, 19, 11, 692–11, 711 ✸
	Trudinger, C. M./Fraser, P. J./Etheridge, D. M./Sturges, W. T./Vollmer, M. K./Rigby, M./Martinerie, P./Mühle, J./Worton, D. R./Krummel, P. B./Steele, L. P./Miller, B. R./Laube, J./Mani, F. S./Rayner, P. J./Harth, C. M./Witrant, E./Blunier, T./Schwander, J./O'Doherty, S./Battle, M. Atmospheric abundance and global emissions of perfluorocarbons CF4, C2F6 and C3F8 since 1800 inferred from ice core, firn, air archive and in situ measurement. Atmospheric Chemistry and Physics. 2016, 16, 18, 11733–11754 ✸
	Vollmer, M. K./Mühle, J./Trudinger, C. M./Rigby, M./Montzka, S. A./Harth, C. M./Miller, B. R./Henne, S./Krummel, P. B./Hall, B. D./Young, D./Kim, J./Arduini, J./Wenger, A./Yao, B./Reimann, S./O'Doherty, S./Maione, M./Etheridge, D. M./Li, S./Verdonik, D. P./Park, S./Dutton, G./Steele, L. P./Lunder, C. R./Rhee, T. S./Hermansen, O./Schmidbauer, N./Wang, R. H. J./Hill, M./Salameh, P. K./Langenfelds, R. L./Zhou, L./Blunier, T./Schwander, J./Elkins, J. W./Butler, J. H./Simmonds, P. G./Weiss, R. F./Prinn, R. G./Fraser, P. J. Atmospheric histories and global emissions of halons H-1211 (CBrClF2), H-1301 (CBrF3), and H-2402 (CBrF2CBrF2). Journal of Geophysical Research: Atmospheres. 2016, 121, 7, 3663–3686 ✸
	Vollmer, M. K./Reimann, S./Hill, M./Buchmann, B./Emmenegger, L. Tracking New Halogenated Alkenes in the Atmosphere. Chimia. 2016, 70, 5, 365 (1 pp) ✸
	Williams, A. G./Chambers, S. D./Conen, F./Reimann, S./Hill, M./Griffiths, A. D./Crawford, J. Radon as a tracer of atmospheric influences on traffic-related air pollution in a small inland city. Tellus, Series B: Chemical and Physical Meteorology. 2016, 68, Article number: 30967 (21 pp) ✸
	Zellweger, C./Emmenegger, L./Firdaus, M./Hatakka, J./Heimann, M./Kozlova, E./Spain, T. G./Steinbacher, M./van der Schoot, M. V./Buchmann, B. Assessment of recent advances in measurement techniques for atmospheric carbon dioxide and methane observations. Atmospheric Measurement Techniques. 2016, 9, 9, 4737–4757 (joint paper) ■
Automotive Powertrain Technologies	**Della Torre, A./Lucci, F./Montenegro, G./Onorati, A./Dimopoulos Eggenschwiler, P./Tronconi, E./Groppi, G.** CFD modeling of catalytic reactions in open-cell foam substrates. Computers and Chemical Engineering. 2016, 92, 55–63 ✸
	Gambarotta, A./Esposito Industrial, M. C./Dimopoulos Eggenschwiler, P./Lucci, F. Real-time simulation of the effects of catalyst on automotive engines performance. 16th Stuttgart International Symposium: Automotive and Engine Technology. 2016, 1, 737–753
	Liao, Y./Dimopoulos Eggenschwiler, P. Experimental investigation of heat transfer characteristics of UWS spray impingement in diesel SCR. 16th Stuttgart International Symposium: Automotive and Engine Technology. 2016, 1, 49–58
	Liati, A./Schreiber, D./Dimopoulos Eggenschwiler, E./Arroyo Rojas Dasilva, Y./Spiteri, A. C. Electron microscopic characterization of soot particulate matter emitted by modern direct injection gasoline engines. Combustion and Flame. 2016, 166, 3, 307–315 (joint paper) ✸
	Liati, A./Theye, T./Fanning, C. M./Gebauer, D./Rayner, N. Multiple subduction cycles in the Alpine orogeny, as recorded in single zircon crystals (Rhodope zone, Greece). Gondwana Research. 2016, 29, 1, 199–207 ✸
	Pieren, R./Bütler, T./Heutschi, K. Auralization of Accelerating Passenger Cars Using Spectral Modeling Synthesis. Applied Sciences. 2016, 6, 1, Article . 5 (27 pp) (joint paper) ■
	Poulikakos, L. D./Mayer, R. M./Heutschi, K./Soltic, P./Lees, A./Van Loo, H. Defining road and rail vehicles with a low environmental footprint. Proceedings of 6th Transport Research Arena. 2016, 10 pp (joint paper)
	Soltic, P./Biffiger, H./Prêtre, P./Kempe, A. Micro-thermal CMOS-based gas quality sensing for control of spark ignition engines. Measurement. 2016, 91, 661–679 ■

Materials for Energy Conversion	**Battaglia, C./Cuevas, A./De Wolf, S.** High-efficiency crystalline silicon solar cells: status and perspectives. Energy & Environmental Science. 2016, 9, 5, 1552–1576 ✹
	Bierwagen, J./Yoon, S./Gartmann, N./Walfort, B./Hagemann, H. Thermal and concentration dependent energy transfer of Eu2+ in SrAl2O4. Optical Materials Express. 2016, 6, 3, 793–803 ■
	Bonk, A./Maier, A. C./Burnat, D./Vogt, U. F./Züttel, A. Investigations on the redox performance of pure and doped CeO 2 by comparing solid state reaction and pechini synthesis. Materials for Energy Infrastructure. 2016, 11–20
	Bonk, A./Remhof, A./Maier, A. C./Trottmann, M./Schlupp, M. V. F./Battaglia, C./Vogt, U. F. Low-Temperature Reducibility of MxCe1-xO2 (M = Zr, Hf) under Hydrogen Atmosphere . Journal of Physical Chemistry C. 2016, 120, 1, 118–125 ✹
	Dilger, S./Landsmann, S./Trottmann, M./Pokrant, S. Carbon containing conductive networks in composite particle-based photoanodes for solar water splitting. Journal of Materials Chemistry A: Materials for Energy and Sustainability. 2016, 4, 43, 17087–17095 (joint paper) ✹
	Felbeck, T./Bonk, A./Kaup, G./Mundinger, S./Grethe, T./Rabe, M./Vogt, U./Kynast, U. Porous nanoclay polysulfone composites: A backbone with high pore accessibility for functional modifications. Microporous and Mesoporous Materials. 2016, 234, 107–112 ✹
	Fernández, A. :Arzac, G.M./Vogt, U. F./Hosoglu, F./Borgschulte, A./deHaro, M. C. J./Montes, O./Züttel, A. Investigation of a Pt containing washcoat on SiC foam for hydrogen combustion applications. Applied Catalysis, B: Environmental. 2016, 180, 336–343 (joint paper) ✹
	Fu, F./Kranz, L./Yoon, S./Löckinger, J./Jäger, T./Perrenoud, J./Feurer, T./Gretener, C./Bücheler, S./Tiwari, A. N. Controlled growth of PbI2 nanoplates for rapid preparation of CH3NH3PbI3 in planar perovskite solar cells. Physica Status Solidi A. 2015, 212, 12, 2708–2717 (joint paper) ✹
	Fumey, B./Stoller, S./Fricker, R./Weber, R./Dorer, V./Vogt, U. F. Development of a novel cooking stove based on catalytic hydrogen combustion. International Journal of Hydrogen Energy. 2016, 41, 18, 7494–7499 (joint paper) ✹
	Hagedorn, K./Li, W./Liang, Q./Dilger, S./Noebels, M./Wagner, M. R./Reparaz, J. S./Dollinger, A./auf der Günne, J. S. Dekorsy, T./Schmidt-Mende, L./Polarz, S. Catalytically Doped Semiconductors for Chemical Gas Sensing: Aerogel-Like Aluminum-Containing Zinc Oxide Materials Prepared in the Gas Phase. Advanced Functional Materials. 2016, 26, 20, 3424–3437 ✹
	Hagemann, H./Lovy, D./Yoon, S./Pokrant, S./Gartmann, N./Walfort, B./Bierwagen, J. Wavelength dependent loading of traps in the persistent phosphor SrAl2O4:Eu2+, Dy3+. Journal of Luminescence. 2016, 170, Part 1, 299–304 (joint paper) ✹
	Hoesch, M./Garbarino, G./Battaglia, C./Aebi, P./Berger, H. Evolution of the charge density wave superstructure in ZrTe3 under pressure . Physical Review B – Condensed Matter and Materials Physics. 2016, 93, 12, Article number 125102 (9 pp) ✹
	Huang, J./Yan, Y./Remhof, A./Zhang, Y./Rentsch, D./Au, Y. S./de Jongh, P./Cuevas, F./Ouyang, L./Zhu, M./Züttel, A. A novel method for the synthesis of solvent-free Mg(B3H8)2. Dalton Transactions. 2016, 45, 9, 3687–3690 (joint paper) ✹
	Huber, L./Ruch, P./Hauert, R./Matam, S. K./Saucke, G./Yoon, S./Zhang, Y./Koebel, M. M. Water sorption behavior of physically and chemically activated monolithic nitrogen doped carbon for adsorption cooling. RSC Advances. 2016, 6, 84, 80729–80738 (joint paper) ■
	Huber, L./Ruch, P./Hauert, R./Saucke, G./Matam, S. K./Michel, B./Koebel, M. M. Monolithic nitrogen-doped carbon as a water sorbent for high-performance adsorption cooling. RSC Advances. 2016, 6, 30, 25267–25278 (joint paper) ■
	Ikeda, M./Tomeš, P./Prochaska, L./Eilertsen, J./Populoh, S./Löffler, S./Svagera, R./Waas, M./Sassik, H./Weidenkaff, A./Paschen, S. Multiband Transport in CoSb3 Prepared by Rapid Solidification. Zeitschrift fur Anorganische und Allgemeine Chemie. 2015, 641, 11, 2020–2028 ✹
	Jeoffroy, E./Koulialias, D./Yoon, S./Partl, M. N./Studart, A. R. Iron oxide nanoparticles for magnetically-triggered healing of bituminous materials. Construction and Building Materials. 2016, 112, 497–505 (joint paper) ■
	Kato, S./Matam, S. K./Kerger, P./Bernard, L./Battaglia, C./Vogel, D./Rohwerder, M./Züttel, A. The Origin of the Catalytic Activity of a Metal Hydride in CO2 Reduction. Angewandte Chemie. 2016, 55, 30, 6028–6032 (joint paper) ✹
	Klaiber, A./Landsmann, S./Löffler, T./Polarz, S. Fourfold action of surfactants with superacid head groups: polyoxometalate–silicone nanocomposites as promising candidates for proton-conducting materials. New Journal of Chemistry. 2016, 40, 2, 919–922 ✹
	Kuc, J./Neumann, M./Armbrüster, M./Yoon, S./Zhang, Y./Erni, R./Weidenkaff, A./Matam, S. K. Methanol steam reforming catalysts derived by reduction of perovskite-type oxides LaCo1−x−yPdxZnyO3±δ. Catal. Sci. Technol. 2016, 6, 1455–1468 (joint paper) ✹

Materials for Energy Conversion	**Kühnel, R. S./Reber, D./Remhof, A./Rigi, R./Bleiner, D./Battaglia, C.** «Water-in-salt» electrolytes enable the use of cost-effective aluminum current collectors for aqueous high-voltage batteries. Chemical Communications. 2016, 52, 68, 10435–10438 (joint paper) ✹
	Landsmann, S./Surace, Y./Trottmann, M./Dilger, S./Weidenkaff, A./Pokrant, S. Controlled design of functional nano-coatings: reduction of loss mechanisms in photoelectrochemical water splitting. ACS Applied Materials & Interfaces. 2016, 8, 19, 12149–12157 (joint paper) ✹
	Liu, Y./Kirchesch, P./Remhof, A./Graule, T./Liersch, A./Clemens, F. Development of oxygen carriers for chemical looping combustion: effects of support microstructure on the performance of oxygen carriers. Microporous and Mesoporous Materials. 2016, 232, 264–272 ✹
	Michalow-Mauke, K. A./Lu, Y./Kowalski, K./Graule, T./Nachtegaal, T./Kröcher, O./Ferri, D. Flame-Made WO3/CeOx-TiO2Catalysts for Selective Catalytic Reduction of NOxby NH3. ACS Catalysis. 2015, 5, 10, 5657–5672 (joint paper) ■
	Mohtadi, R./Remhof, A./Jena, P. Complex metal borohydrides: multifunctional materials for energy storage and conversion. Journal of Physics Condensed Matter. 2016, 28, 35, Article number 353001 (19 pp) ✹
	Pichler, M./Pergolesi, D./Landsmann, S./Chawla, V./Michler, J./Döbeli, M./Wokaun, A./Lippert, T. TiN-buffered substrates for photoelectrochemical measurements of oxynitride thin films. Applied Surface Science. 2016, 369, 67–75 (joint paper) ✹
	Pokrant, S./Dilger, S./Landsmann, S. Morphology and mesopores in photoelectrochemically active LaTiO2N single crystals. Journal of Materials Research. 2016, 31, 11, 1574–1579 ✹
	Sahle, C. J./Kujawski, S./Remhof, A./Yan, Y./Stadie, N. P./Al-Zein, A./Tolan, M./Huotari, S./Krischa, M./Sternemann, C. In situ characterization of the decomposition behavior of Mg(BH4)2 by X-ray Raman scattering spectroscopy. Physical Chemistry Chemical Physics. 2016, 18, 7, 5397–5403 (joint paper) ✹
	Sahle, C. J./Sternemann, C./Giacobbe, C./Yan, Y./Weis, C./Harder, M./Forov, Y./Spiekermann, G./Tolan, M./Krisch, M./Remhof, A. Formation of CaB6 in the thermal decomposition of the hydrogen storage material Ca(BH4)2. Physical Chemistry Chemical Physics. 2016, 18, 29, 19866–19872 ✹
	Schlupp, M. V. F./Wehrle, M. M./Kunze, K./Remhof, A./Vogt, U. F. Intermetallic Layer Growth Kinetics in Sn-Ag-Cu System using Diffusion Multiple and Reflow Techniques. Advanced Engineering Materials. 2016, 18, 7, 1200–1207 ■
	Surace, Y./Simões, M./Pokrant, S./Weidenkaff, A. Capacity fading in Li3MnO4: A post-mortem analysis. Journal of Electroanalytical Chemistry. 2016, 766, 44–51 ✹
	Tomeš, P./Yan, X./Kastner, R./Paschen, S./Waas, M./Eilertsen, J./Weidenkaff, A./Paschen, S. Thermoelectric properties of meltspun Ba8Cu5(Si, Ge, Sn)41 clathrates. Journal of Alloys and Compounds. 2016, 654, 300–307 ✹
	Yan, X./Populoh, S./Weidenkaff, A./Rogl, P./Paschen, S. Chemical and Thermoelectric Properties of Hot Pressed and Spark Plasma Sintered Type-I Clathrate Ba8Cu4.8Si41.2. Journal of Electronic Materials. 2016, 45, 3, 1840–1845 ✹
	Callini, E./Szilágyi, P. Á./Paskevicius, M./Stadie, N. P./Réhault, J./Buckley, C. E./Borgschulte, A./Züttel, A. Stabilization of volatile Ti(BH4)3 by nano-confinement in a metal–organic framework. Chemical Science. 2016, 1, 7, 666–672 (joint paper) ✹
	Fernández, A. :Arzac, G.M./Vogt, U. F./Hosoglu, F./Borgschulte, A./deHaro, M. C. J./Montes, O./Züttel, A. Investigation of a Pt containing washcoat on SiC foam for hydrogen combustion applications. Applied Catalysis, B: Environmental. 2016, 180, 336–343 (joint paper) ✹
	Huang, J./Yan, Y./Remhof, A./Zhang, Y./Rentsch, D./Au, Y. S./de Jongh, P./Cuevas, F./Ouyang, L./Zhu, M./Züttel, A. A novel method for the synthesis of solvent-free Mg(B3H8)2. Dalton Transactions. 2016, 45, 9, 3687–3690 (joint paper) ✹
	Kato, S./Matam, S. K./Kerger, P./Bernard, L./Battaglia, C./Vogel, D./Rohwerder, M./Züttel, A. The Origin of the Catalytic Activity of a Metal Hydride in CO2 Reduction. Angewandte Chemie. 2016, 55, 30, 6028–6032 (joint paper) ✹
Technology and Society	**Bauer, C./Hofer, J./Althaus, H. -J/Del Duce, A./Simons, A.** The environmental performance of current and future passenger vehicles: Life Cycle Assessment based on a novel scenario analysis framework. Applied Energy. 2015, 157, 871–883 ✹
	Bornhöft, N. A./Sun, T. Y./Hilty, L. M./Nowack, B. A dynamic probabilistic material flow modeling method. Environmental Modelling & Software. 2016, 76, 69–80 ■
	Brechbühler Pešková, M./Grösser, S./Böni, H./Wäger, P. A. Rückgewinnung von Indium aus Bildschirmen: Ist das sinnvoll?. Die Volkswirtschaft. 2016, 1–2, 61–64
	Caballero-Guzman, A./Nowack, B. A critical review of engineered nanomaterial release data: Are current data useful for material flow modeling?. Environmental Pollution. 2016, 213, 502–517 ✹

Coll, C./Notter, D./Gottschalk, F./Sun, T./Som, C./Nowack, B.
Probabilistic environmental risk assessment of five nanomaterials (nano-TiO2, nano-Ag, nano-ZnO, CNT, and fullerenes). Nanotoxicology. 2016, 10, 4, 436–444 ■

Del Duce, A./Gauch, M./Althaus, H. -J
Electric passenger car transport and passenger car life cycle inventories in ecoinvent version 3. International Journal of Life Cycle Assessment. 2016, 21 (9), 1314–1326 ■

Demokritou, P./Jiang, G./Lead, J./Nowack, B.
NanoImpact – A new journal is born that focuses on all aspects of nanosafety research. NanoImpact. 2016, 1, A1–A2

Holm, S./Lemm, R./Thees, O./Hilty, L. M.
Enhancing Agent-Based Models with Discrete Choice Experiments. Journal of Artificial Societies and Social Simulation. 2016, 19, 3– ▲

Hristozov, D./Gottardo, S./Semenzin, E./Oomen, A./Bos, P./Peijnenburg, W./van Tongeren, M./Nowack, B./Hunt, N./Brunelli, A./Scott-Fordsmand, J.J./Tran, L./Marcomini, A.
Frameworks and tools for risk assessment of manufactured nanomaterials: Environment International. 2016, 95, 36–53 ■

Løvik, A. N./Restrepo, E./Müller, D. B.
Byproduct Metal Availability Constrained by Dynamics of Carrier Metal Cycle: The Gallium–Aluminum Example. Environmental Science and Technology. 2016, 50, 16, 8453–8461 ✹

Mahapatra, I./Sun, T. Y./Clark, J. R. A./Dobson, P. J./Hungerbuehler, K./Owen, R./Nowack, B./Lead, J.
Probabilistic modelling of prospective environmental concentrations of gold nanoparticles from medical applications as a basis for risk assessment. Journal of Nanobiotechnology. 2015, 13, Article number 93 (14 pp) ■

Mitrano, D. M./Limpiteeprakan, P./Babel, S./Nowack, B.
Durability of nano-enhanced textiles through the life cycle: releases from landfilling after washing. Environmental Science Nano. 2016, 3, 2, 375–387 ■

Mitrano, D. M./Lombi, E./Arroyo Rojas Dasilva, Y./Nowack, B.
Uaveling the Complexity in the Aging of Nanoenhanced Textiles: A Comprehensive Sequential Study on the Effects of Sunlight and Washing on Silver Nanoparticles. Environmental Science and Technology. 2016, 50, 11, 5790–5799 (joint paper) ✹

Nassar, N. T./Du, X./Graedel, T. E.
Criticality of the Rare Earth Elements. Journal of Industrial Ecology. 2015, 19, 6, 1044–1054 ■

Nemecek, T./Schetzer, J./Reinhard, J.
Updated and harmonised greenhouse gas emissions for crop inventories. International Journal of Life Cycle Assessment. 2016, 21 (9), 1361–1378 ■

Nowack, B./Boldrin, A./Caballero, A./Hansen, S. F./Gottschalk, F./Heggelund, L./Hennig, M./Mackevica, A./Maes, H./Jana Navratilova, J./Neubauer, N./Peters, R./Rose, J./Andreas Schäffer, A./Scifo, L./van Leeuwen, S./von der Kammer, F./Wohlleben, W./Wyrwoll‖, A./Hristozov, D.
Meeting the Needs for Released Nanomaterials Required for Further Testing—The SUN approach. Environmental Science and Technology. 2016, 50, 6, 2747–2753 ✹

Nowack, B./Bornhöft, N./Ding, Y./Riediker, M./Sánchez Jiménez, A./Sun, T./van Tongeren, M./Wohlleben, W.
The Flows of Engineered Nanomaterials from Production, Use, and Disposal to the Environment. Indoor and Outdoor Nanoparticles. 2016, 48, 209–231

Piccinno, F./Hischier, R./Saba, A./Mitrano, D./Seeger, S./Som, C.
Multi-perspective application selection: a method to identify sustainable applications for new materials using the example of cellulose nanofiber reinforced composites. Journal of Cleaner Production. 2016, 112 (1), 1199–1210 ■

Pini, M./Salieri, B./Ferrari, A. M./Nowack, B./Hischier, R.
Human health characterization factors of nano-TiO2 for indoor and outdoor environments. The international journal of life cycle assessment. 2016, 11 pp ■

Reinhard, J./Mutel, C. L./Wernet, G./Zah, R./Hilty, L. M.
Contribution-based prioritization of LCI database improvements: method design, demonstration, and evaluation. Environmental Modelling & Software. 2016, 86, 204–218 ■

Robledo-Abad, C./Althaus, H. J./Berndes, G./Bolwig, S./Corbera, E./Creutzig, F./Garcia-Ullo, J./Geddes, A./Gregg, J. S./Haberl, H. Hanger, S./Harper, R. J./Hunsberger, C./Larsen, R. K./Lauk, C./Leitner, S./Liliestam, J./Lotze-Campen, H./Muys, B./Nordborg, M./Ölund, M./Orlowsky, B./Popp, A./Portugal-Pereira, J./Reinhard, U./Scheiffle, L./Smith, P.
Bioenergy production and sustainable development: science base for policymaking remains limited. GCB Bioenergy. 2016, 16 pp ■

Turner, D. A./Williams, I. D./Kemp, S.
Combined material flow analysis and life cycle assessment as a support tool for solid waste management decision making. Journal of Cleaner Production. 2016, 129, 234–248 ■

van Harmelen, T./Zondervan-van den Beuken, E. K./Brouwer, D. H./Kuijpers, E./Fransman, W./Buist, H. B./Ligthart, T. N./Hincapié, I./Hischier, R./Linkov, I./Nowack, B./Studer, J./Hilty, L./Som, C.
LICARA nanoSCAN – A tool for the self-assessment of benefits and risks of nanoproducts. Environment international. 2016, 91, 150–160 ■

Technology and Society	**Wagener, S./Dommershausen, N./Jungnickel, H./Laux, P./Mitrano, D./Nowack, B./Schneider, G./Luch, A.** Textile functionalization and its effects on the release of silver nanoparticles into artificial sweat. Environmental Science and Technology. 2016, 50, 11, 5927–5934 ✹
	Wang, Y./Deng, L./Caballero-Guzman, A./Nowack, B. Are engineered nano iron oxide particles safe? an environmental risk assessment by probabilistic exposure, effects and risk modeling: Nanotoxicology. 2015, 10, 10, 1545–1554 ■
	Wang, Y./Kalinina, A./Sun, T./Nowack, B. Probabilistic modeling of the flows and environmental risks of nano-silica. Science of the Total Environment. 2016, 545–546, 67–76 ✹
	Yin Sun, T./Bornhöft, N. A./Hungerbühler, K./Nowack, B. Dynamic Probabilistic Modeling of Environmental Emissions of Engineered Nanomaterials. Environmental Science and Technology. 2016, 50, 9, 4701–4711 ✹

Empa Activities 2016
Conferences

General Management

Buchmann Brigitte
Empa – Sustainable Innovation, Gaia Conference, Dübendorf, 08-04 ♣ ○

Dommann Alex
Materials Sciences and MCS, 3rd European Training Symposium (ETS) for Heart Failure Cardiologists and CV Surgeons, Berne, 06-24 to 06-25 ♣ ○

Dommann Alex
Materials meet Life, KSSG Abschiedssymposium Dr. MaurusPfister, St.Gallen, 07-08 ♣ ○

Dommann Alex
New X-Ray developments to charactrize ceramic materials, 2nd International Conference and Expo on Ceramics and Composite Materials, Berlin, DE, 07-25 to 07-27 ♣ ○

Dommann Alex
Phase contrast and X-Ray dark field imgaging: New possibilities for analazing tooth reconstruction, 2nd International Conference and Expo on Ceramics and Composite Materials, Berlin, DE, 07-25 to 07-27 ♣ ○

Dommann Alex
New x-ray Imaging developments to characterize ceramic materials for dental applications, International Conference on Radiology and Imaging, Las Vegas, US, 09-19 to 09-20 ♣ ○

Dommann Alex
Medical Imaging Radiology Trends and Technology Ultrasound, International Conference on Radiology and Imaging, Las Vegas, US, 09-19 to 09-20 ▲ ○

Dommann Alex
New directions in X-ray imaging, International Conference on Radiology and Imaging, Las Vegas, US, 09-19 to 09-20 ♣

Dommann Alex
Das T-Shirt fühlt mit, Science City ETHZ Hönggerberg, Zürich, 10-30 ♣ ○

Advanced Materials and Surfaces

Advanced Materials Processing

Arabi-Hashemi Ariyan, Lee Wookjin, Weber Benedikt, Lis Adrian, Leinenbach Christian
Low-temperature creep and stress relaxation behavior of FeMnSi based shape memory alloys for prestressing applications, Materials Science and Engineering – MSE 2016, Darmstadt, DE, 09-27 to 09-29 ♣

Arabi-Hashemi Ariyan, Leinenbach Christian, Lis Adrian, Weber Benedikt, Wookjin Lee
Low-temperature creep and stress relaxation behavior of FeMnSi based shape memory alloys for prestressing applications, Materials Science and Engineering 2016, Darmstadt, DE, 09-29 ♣

Farah John, Mesarovic Sinisa, Wasmer Kilian, Jimenez Juan, Torres Alfredo, Dudley Michael, Raghothamachar Balaji, Kovaliuk Taras
Rapid Thinning and Wafering of Wide Bandgap Substrates, International Workshop on Nitride Semiconductors (IWN2016), Orlando, US, 10-02 to 10-07 ◆

Hoffmann Patrik
Lasers in materials processing, MEET THE EXPERT Implants Innovation – from Idea to Patient Benefit , Interlaken, 04-26 ♣ ○

Hoffmann Patrik
Photonics 4 Precision Manufacturing, Geneva Palexpo, 06-15 ▲

Hoffmann Patrik
Lasers in Microprocessing, La nouvelle dimension des applications LASER, EPMT – Palexpo Geneva, 06-16 ♣ ○

Hoffmann Patrik
Physikalische Grenzen von Additive Manufacuring, Additive Update, Innocampus Biel, 08-18 ♣ ○

Hoffmann Patrik
Additive manufacturing -3D printing Advanced industrial additive manufacturing: 3D products from metals and ceramics, Spiez CONVERGENCE, Spiez Hotel Eden, 09-05 to 09-08 ♣ ○

Hoffmann Patrik
Lasers in Materials Processing, 3rd International Conference on Nanojoining and Microjoining (NMJ2016), Niagara Falls, Ontario, CA, 09-25 to 09-28 ♣ ○

Hoffmann Patrik
table ronde: Technologies plasma pour l'ALD, RAFALD – Le workshop Reseau des Acteurs Francais de l'ALD 2ième edition; , Chatou, Paris, FR, 11-14 to 11-16 ■ ○

Kenel Christoph, Dawson Karl, Dasargyri Georgia, Bauer Thomas, Colella Alberto, Spierings Adriaan, Tatlock Gordon, Leinenbach Christian
Design of an ODS-TiAl Alloy for Additive Manufacturing Technologies, Materials Science and Technology – MS&T2016, Salt Lake City, US, 10-23 to 10-27 ♣

Kenel Christoph, Grolimund Daniel, Fife Julie L., Samson Valerie A., van Petegem Steven, van Swygenhoven Helena, Leinenbach Christian
In situ X-ray diffraction studies on rapidly solidified alloys under additive manufacturing conditions, THERMEC 2016, Graz, AT, 05-29 to 06-03 ♣

Kuzminykh Yury, Vahdati Seyedpayam, Richmann Annika, Richerzhagen Bernold, Hoffmann Patrik
Sapphire Ablation by Water Jet Guided 532nm ns-Pulsed Laser, SPIE Photonics West, San Francisco, US, 01-28 to 02-02 ♣

Kwon Hansang, Park J, Kim K, Cho S, Joo S, Hong S, Leparoux Marc, Kawasaki Akira
Spark Plasma Sintered Dual-Nanoparticles Functionally Graded Metal Matrix Composite Materials, 9th Pacific Rim International Conference on Advanced Materials and Processing (PRICM9), Kyoto, JP, 08-01 to 08-05 ♣

Le Dantec Marie, Güniat Lucas, Leistner Matthias, Leparoux Marc, Figi Renato, Hoffmann Patrik
Micron-sized silicon powder for selective laser melting – The influence of oxygen content, EMRS Spring Meeting, Lille, FR, 05-02 to 05-06 ♣

Leinenbach Christian
Material Aspects in Metal Additive Manufacturing – Challenges and Opportunities, Seminar on joining and processing technology, Osaka University, JP, 05-24 ♣ ○

Leinenbach Christian
Laser additive manufacturing of nanostructured materials – challenges and opportunities, Advanced Manufacturing Seminar, Korean Institute of Industrial Technology, Busan, KR, 05-26 ♣ ○

Leinenbach Christian
Empa Topical Day "Additive Manufacturing", Empa Akademie, Dübendorf, 09-09 ▲

Leinenbach Christian
Alloy Design for Laser Additive Manufacturing – Challenges and Opportunities, EPFL-IMX Seminar Series, Lausanne, 11-21 ♣ ○

Leinenbach Christian
Laser additive manufacturing of nanostructured materials – challenges and opportunities, Swiss Nano Convention 2016, Basel, 06-30 to 07-01 ♣ ○

Leinenbach Christian
Studying the phase and microstructure formation in alloys during rapid solidification – towards alloy design for additive manufacturing, Alloys for Additive Manufacturing Workshop, Max-Planck-Institute for Iron Research, Düsseldor, DE, 07-04 to 07-05 ♣ ○

Leinenbach Christian
Studying the phase and microstructure formation in alloys during rapid solidification by in situ synchrotron micro X-ray diffraction– towards alloy design for additive manufacturing, Workshop “Opportunities for In-Situ Characterization During Advanced Manufacture”, Argonne National Laboratories, Chicago, US, 08-29 to 08-30 ♣ ○

Leinenbach Christian, Kenel Christoph, Li Xiaoshuang
Application of CALPHAD for rapid solidification and metal additive manufacturing of Ti-Al-based alloys, CALPHAD XLV, Awaji Island, JP, 05-29 to 06-03 ♣

Leinenbach Christian, Li Xiaoshuang, Spiering Adriaan B., Kenel Christoph, Wegener Konrad
CALPHAD assisted design of metal-diamond composites for selective laser melting, CALPHAD XLV, Awaji Island, JP, 05-29 to 06-03 ◆

Leistner Matthias, Favre Sébastian, Leparoux Marc, Hoffmann Patrik
Laser-plume-material Interaction and its Influence on Laser Welding, 3rd International Conference on Nanojoining and Microjoining (NMJ2016), Niagara Falls, Ontario, CA, 09-25 to 09-28 ♣ ○

Leparoux Marc
14th High-Tech Plasma Processes – HTPP14, Munich, DE, 07-03 to 07-07 ▲

Li Xiaoshuang, Spierings Adriaan B., Kenel Christoph, Wegener Konrad, Leinenbach Christian
Metal-diamond composites processed by selective laser melting, THERMEC 2016, Graz, AT, 05-29 to 06-03 ◆

Lis Adrian, Kicin Slavo, Brem Franziska, Hirose Akio, Leinenbach Christian
Quantitative assessment of thermally induced stresses for assemblies with TLP bonded Si chips, 10th International Conference on Trends in Welding Research, Tokyo, JP, 10-11 to 10-14 ♣

Lungershausen Jörn, Vakili-Farahani Farzad, Wasmer Kilia
Erweiterte Spaltüberbrückung beim Laserrührschweissen mittels Hochgeschwindigkeits-Bearbeitungskopf, DVS Congress 2016, Leipzig, DE, 09-19 to 09-20 ♣

Mohanta Antaryami, Lanfant Briac, Asfaha Mehari, Leparoux Marc
Optical emission spectroscopic study of CH4 plasma during the production of graphene by induction plasma synthesis, The 14th High-Tech Plasma Processes Conference (HTPP 14), München, DE, 07-03 to 07-07 ◆

Mohanta Antaryami, Lanfant Briac, Asfaha Mehari, Leparoux Marc
Optical emission spectroscopic study of CH4 plasma during the production of graphene by induction plasma synthesis, 14th High-Tech Plasma Processes – HTPP14, Munich, DE, 07-03 to 07-07 ◆

Nagumothu Kishore Babu, Kallip Kaspar, Leparoux Marc, AlOgab Khaled A., Reddy G.M., Talari M.K.
Microstructure Evolution and Mechanical Properties Investigation of Friction Stir Welded AlMg5-Al2O3 Nanocomposites, TMS 2016, 145th Annual Meeting, Nashville, US, 02-14 to 02-18 ♣

Nagumothu Kishore Babu, Kallip Kaspar, Leparoux Marc, AlOgab2 Khaled A., Mahesh Kumar Talari
Influence of calcium process control agent (PCA) on Ti-6Al-4V alloy fabricated by high energy ball milling and spark plasma sintering, Material Science and Engineering Conference, Darmstadt, DE, 09-27 to 09-29 ◆

Advanced Materials Processing

Reinke Michael, Kuzminykh Yury, Hoffmann Patrik,
Continuous Chemical Vapor Deposition in the ALD window – Analysis of Surface Kinetics of the Titanium Dioxide Formation, AVS 63trd International Symposium & Exhibition, Nashville, US, 11-06 to 11-11 ♣ ○

Rowthu Sriharitha, Hoffmann Patrik
Self-Replenishing, Wear-Resistant and Anti-Sticking Surfaces Based on Liquid Impregnation of Microstructured Mesoporous a-AI2O3 Matrices, Company invitation, Rolex, Geneva, 09-13 ♣ ○

Vakili Farahani Farzad, Lungershausen Jörn, Wasmer Kilian
Wavelet Analysis of Light Emission Signals in Laser Beam Welding, International Congress on Applications of Lasers & Electro–Optics (ICALEO 2016), San Diego, US, 10-16 to 10-20 ♣

Wasmer Kilian, Saeidi Fatemeh, Meylan Bastian, Hoffmann Patrik
Scuffing Prevention by Surface Texturing, Materials Science and Engineering 2016 (MSE 2016), Darmstadt, DE, 09-27 to 09-29 ♣ ○

Wasmer Kilian, Shevchik Sergey, Melyan Bastian
Acoustic Of Solid Materials Pre-weakening Investigation During Electric Discharge, Workshop on the Selfrag process, Kerzers, 08-24 ♣ ○

Wasmer Kilian, Shevchik Sergey, Meylan Bastian, Saeidi Fatemeh, Vakili Farahani Farzad, Violakis Georgios, Mader Arnaud
In situ and real time monitoring of AM and complex processes, Topical Day at Empa: Additive Manufacturing, Dübendorf, 09-09 ♣ ○

Wasmer Kilian, Vakili-Farahani Farzad, Lungershausen Jörn
Process parameter optimization for wobbling laser spot welding of Ti6Al4V alloy, 9th International Conference on Photonic Technologies – LANE 2016, Fürth, DE, 09-19 to 09-22 ♣

Electron Microscopy Center

Agrawal Piyush, Marta D. Rossell, Cécile Hébert, Daniele Passerone and Rolf Erni
Dislocation Modelling: Calculating EELS Spectra for Edge Dislocation in Bismuth Ferrite, EMC 2016, Lyon, FR, 08-28 to 09-02 ♣

Arroyo Rojas Dasilva Yadira, Rossell D. Marta, Erni Rolf, Isa Favio, Isella Giovani, von Känel Hans and Gröning Pierangelo.
Strain relaxation defects in Ge crystals grown on Si pillars, EMC2016, Lyon, FR, 08-28 to 09-02 ♣

Erni Rolf
Transmissionselektronenmikroskopie: das Grundgerüst der Materialien unter der Lupe, Seminar Physikalische Gesellschaft Zürich, ETH Zürich, 09-29 ♣ ○

Erni Rolf
Essentials of TEM and STEM investigations, CCMX Advanced Course 'Combining Structural & Analytical Investigations of Matter at the Micro-, Nano and Atomic Scale', ETH Zurich, 11-14 to 11-17 ♣ ○

Erni Rolf
Spannungsrelaxationsmechanismen an epitaktischen Heterostrukturen, 50 Jahre JEOL in Dresden, Fraunhofer Institut, Dresden, DE, 11-28 to 11-29 ♣ ○

Erni Rolf, Arroyo Yadira, Agrawal Piyush, Passerone Daniele, Rossell Marta
Strain relaxation mechanisms in epitaxially grown semiconductor heterostructures, International Workshop on Interfaces, Max Planck Society Stuttgart, Schloss Ringberg, Tegernsee, DE, 06-22 to 06-24 ♣ ○

Erni Rolf, Arroyo Yadira, Agrawal Piyush, Rossell Marta
Transmission electron microscopy of advanced functional materials for energy and electronic applications, Spring MRS (Materials Research Symposium), Phoenix, US, 03-28 to 04-01 ♣ ○

Henninen Trond, Erni Rolf
Identifying the 3D structure of sub-nanometer atomic clusters and nanoparticles by scanning transmission electron microscopy, EMPA PhD Symposium, Empa Academy, 11-14 ◆

Keller Debora, Buecheler Stephan, Reinhard Patrick, Pianezzi Fabian, Bissig Benjamin, Hage Fredrik, Ramasse Quentin, Erni Rolf, Tiwari Ayodhya N.
Nanoscale electronic properties in CIGS thin film solar cells studied by VEELS, E-MRS Spring Meeting, Lille, FR, 05-01 to 05-06 ♣

Keller Debora, Buecheler Stephan, Reinhard Patrick, Pianezzi Fabian, Rossell Marta D., Pohl Darius, Surrey Alexander, Rellinghaus Bernd, Hage Fredrik, Ramasse Quentin, Erni Rolf, Tiwari Ayodhya N.
Analysis of Nanoscale Band Gap Fluctuations in Cu(In,Ga)Se Solar Cells by VEELS, 16th European Microscopy Congress, Lyon, FR, 08-28 to 09-02 ◆

Kozak Roksolana, Prieto Ivan, Rossell Marta D., Erni Rolf, Skibitzki Oliver, Schröder Thomas, von Känel Hans
STEM investigation of GaAs, Si nanostructures, EMPA PhD-Symposium, EMPA, Dübendorf, 2015-12-07 ♣

Kozak Roksolana, Prieto Ivan, Skibitzki Oliver, Arroyo-Rojas Dasilva Yadira, Rossell Marta D., Erni Rolf, Schröder Thomas, Hans von Känel
Defects and strain analysis of GaAs, Si; nanostructures from high-resolution HAADF-STEM images, EMPA PhD-Symposium, EMPA, Dübendorf, 11-14 ◆

Kozak Roksolana, Prieto Ivan, Skibitzki Oliver, Arroyo-Rojas Dasilva Yadira, Rossell Marta D., Erni Rolf, Schroeder Thomas, von Känel Hans
Defects and strain analysis of GaAs, Si nanostructures from high-resolution HAADF-STEM images, 16th Microscopy Congress, Lyon, FR, 08-28 to 09-02 ◆

Electron Microscopy Center

Rossell Marta D, Agrawal Piyush, Hébert Cécile, Passerone Daniele, Erni Rolf
Strain-driven oxygen deficiency in multiferroic SrMnO3 thin films, 10ème edition des Journées de l'EELS, Tarragona, ES, 06-28 to 06-30 ♣

Rossell Marta D, Agrawal Piyush, Hébert Cécile, Passerone Daniele, Erni Rolf
Strain-driven oxygen deficiency in multiferroic SrMnO3 thin films, 16th European Microscopy Congress, Lyon, FR, 08-28 to 09-02 ♣ ○

Zhang Yucheng, Carlos Guerra-Nuñez, Johann Michler, Meng Li, Hyung Gyu Park3, Marta D. Rossell, Rolf Erni, Ivo Utke
Understanding and Controlling Atomic Layer Deposited TiO2 on Carbon-based Nanomaterials: Synthesis, Structure and Interface, 2016 Energy Material Nanotechnology Prague Meeting , Prague, CZ, 06-21 to 06-24 ♣ ○

Functional Polymers

Anantharaman Surendra, F. Nüesch, J. Heier
Self-Assembled Monolayer (SAM) of Cyanine Dye J-Aggregates on Surfaces for Mesoscopic Solar Cells, SAOG 2016 – Swiss Working Group for Surface and Interface Science, Fribourg, 01-22 ◆

Anantharaman Surendra, F. Nüesch, J. Heier
Self-Assembled Monolayer (SAM) of Cyanine Dye J-Aggregates on Surfaces for Mesoscopic Solar Cells, SCS – Fall Meeting – Swiss Chemical Society, Zürich, 09-15 ◆

Braun Artur, Florent Boudoire, Jakob Heier, Rita Toth, Edwin Constable
Tuning the Light Absorption of Photoelectrodes at the Mesoscale with a Bio-Mimetic Moth Eye Structure, 2016 MRS Spring Meeting, Phoenix, US, 03-28 to 04-01 ♣

Caspari Philip, Frank Nüesch, Dorina Opris
High permittivity polar siloxanes in the application of dielectric elastomer generators, SCS – Fall Meeting – Swiss Chemical Society, Zürich, 09-15 ◆

Dünki Simon, Frank A. Nüesch, Dorina Opris
Polar Silicones for Dielectric Elastomer Actuators, SCS – Fall Meeting – Swiss Chemical Society, Zürich, 09-15 ◆

Heier Jakob, Rene Schneider
Präzissionsdurck und Nassbeschichtungen, MATFLEXEND Workshop, Wien, AT, 09-19 ◆

Ko Yee Song, Frank A. Nüesch, Dorina Opris
Piezoelectric Elastomer Composites, SCS – Fall Meeting – Swiss Chemical Society, Zürich, 09-15 ◆

Nüesch Frank
High dielectric constant elastomers for electromechanical applications, Materials Valley Workshop, Heraeus, Hanau, DE, 02-04 ♣

Nüesch Frank
Transparent organic photovoltaic cells and related devices, Seminar at Tianjin University, Tianjin, CN, 09-23 ◆

Dünki Simon, Frank A. Nüesch, Dorina Opris
High Permittivity Silicones for Dielectric Elastomer Actuators, SPIE Smart Structures, NDE 2016, Las Vegas, US, 03-20 to 03-24 ♣

Gesevicius Donatas, A. Neels, J. Heier, F. Nüesch
The Anion Influence in Cyanine Dyes on Organic Photovoltaic Parameters, Organic Semiconductors, Cavtat, HR, 09-22 to 09-25 ◆

Hany Roland
Spektroskopiekurs, Spektroskopiekurs für Absolventen, innen der Höheren Fachprüfung, Empa, Dübendorf, 04-11 to 04-14 ■

Hany Roland, Lei Wang, Sandra Jenatsch, Frank Nüesch
Ready available cyanine dyes for light-emitting electrochemical cells, EMRS 2016, Lille, FR, 05-02 to 05-06 ♣

Heier Jakob, Nicolas Leclaire, Frank Nüesch
Enhancement of Scattering by Strongly Absorbing Dyes, Ed Kramer Memorial Conference, Santa Barbara, US, 01-06 to 01-08 ◆

Heier Jakob, Nicolas Leclaire, Frank Nüesch
Light scattering properties of dewetting droplets of organic dyes, ENM Meeting on Droplets, San Sebastian, ES, 05-10 to 05-13 ♣

Jenatsch Sandra, Frank Nüesch, Roland Hany
Doping evolution and junction formation in stacked cyanine dye light-emitting electrochemical cells, SimOEP, Winterthur, 09-14 to 09-16 ♣

Ko Yee Song, Frank A. Nüesch, Dorina Opris
DR1-co-PMMA in PDMS as poled elastomer composites, SPIE Smart Structures, NDE 2016, Las Vegas, US, 03-20 to 03-24 ♣

Leclaire Nicolas, Jakob Heier, Frank Nüesch
Emergent Optical Properties of Cyanine Dye Droplets, FEMS-Junior Euromat 2016, Lausanne, 07-11 to 07-13 ♣

Makha Mohammed, Jean-Nicolas Tisserant, Anna C. Véron, Roland Steim, Ton Offermans, Frank Nüesch, Roland Hany
Semi-transparent ternary blend organic solar cell with enhanced NIR absorption, The 24th international conference on science and technology of synthetic metals – ICSM16, Guangzhou, CN, 06-26 to 07-01 ◆

Opris Dorina, S. Dünki, E. Perju, F. A. Nüesch
"High Dielectric Permittivity Elastomers for Artificial Muscles", CIMTEC 2016, Perugia, IT, 06-05 to 06-09 ♣

Functional Polymers

Verma Anand
xxxxx, Swiss Nanoconvention, Basel, 06-30 to 07-01 ◆

Wang Lei, Christian Hinderling, Frank Nüesch, Roland Hany
cyanine dye polyelectrolytes for organic homojunction photovoltaics, ICPS 2016, Beijing, CN, 07-31 to 08-05 ◆

High Performance Ceramics

Blugan Gurdial
Bending test and fractography on ceramics, Shear Strength Tests on Dissimilar Materials, Workshop, Empa HLK, Dübendorf , 02-25 ■ ○

Blugan Gurdial
Aluminium protected with wear resistant ceramic plates for lightweight brakes: Joining dissimilar materials, 2nd Interant. Conf. lightweight Chassis and Body Design, Berlin, DE, 02-16 to 02-17 ☘ ○

Blugan Gurdial
Carbon-ceramic Micro Electrodes for Pace Makers and Similar Biomedical Applications, CIMTEC, Perguia, IT, 06-05 to 06-10 ☘

Blugan Gurdial, B. Jiang,, J. Kübler,, P. Sturzenegger,, U. Gonzenbach,, M. Misson,, D. Cartlidge, et al
Development of Ceramic Sphere Buoyancy Modules for Deep Sea Oil Exploration, ICOGP 2016, Dubai, AE, 11-13 to 11-19 ☘ ○

Bora Debajeet K., Boudoire Florent, Braun Artur, Constable Edwin C., Fortunato Giuseppino, Housecroft Catherine E., Hu Yelin, Mayer Marcel, Murray Niamh S., Toth Rita, Walliser Roche M.
Electrocatalysts for hydrogen production, NanoTera Closing Event, EPFL Lausanne, 04-25 to 04-26 ◆

Bora Debajeet K., Modestino Miguel, Moser Christophe, Braun Artur
Ni electrocataylsts functionalized membrane electrode assembly for hydrogen generation, 18th Topical Meeting of the International Society of Electrochemistry, Gwangju, KR, 03-08 to 03-11 ◆

Bora Debajeet K., Toth Rita, Modestino Miguel, Moser Christophe, Braun Artur
Ni – Electrocatalysts Functionalized Membrane Electrode Assembly for Electrocatalytic Water Splitting, NanoTera Closing Event, EPFL Lausanne, 04-25 to 04-26 ◆ ○

Bozza Francesco, Graule Thomas
Proton Conducting Fuel Cells based on Yttrium-droped Barium Zirconate, 91. DKG Jahrestagung 2016, Freiberg, D, DE, 03-06 to 03-09 ☘ ○

Braun Artur
Arbeitsmittagessen zum Thema Sicherheit von Kernreaktoren, Diplomatisches Kolloquium, Arbeitsmittagessen zum Thema Sicherheit von Kernreaktoren, Bern (undisclosed), 03-11 ☘ ○

Braun Artur
Materials Science on electrochemistry with X-rays, neutrons and electrons – and some light, MRS Chapter at University of Cologne, Cologne, DE, 04-06 ☘ ○

Braun Artur
Chemistry and dynamics of the proton phonon coupling in proton conducting ceramic electrolytes, COST CM1104 Final Meeting, Osnabrück, DE, 04-07 ☘

Braun Artur
On the metafunction of protons in ceramic electrolytes, Paul Scherrer Institut Materials Seminar, Villigen PSI, 04-18 ☘ ○

Braun Artur
X-ray spectroscopy and electrochemistry concepts for metrology of energy storage and conversion, EMPR Partnering Meeting at LNE, Laboratoire national de métrologie et d'essais, Paris, FR, 06-27 ☘ ○

Braun Artur
Controlling Magnetic Anisotropy in Ultrathin Metal Films by Epitaxial Strain: Model and Experiment, University of Pretoria Physics "Jan van der Merwe – Seminar", University of Pretoria, ZA, 10-05 ☘ ○

Braun Artur
Tailoring the Proton-Phonon Coupling in Ceramic Electrolytes by Strain Engineering, MRS Spring Meeting, Phönix, AZ, US, 03-28 to 04-01 ☘

Braun Artur
Controlling the Magnetic Anisotropy in Ultrathin Metal Films by Epitaxial Strain, MRS Spring Meeting, Phönix, AZ, US, 03-28 to 04-01 ☘

Braun Artur
Correlations between Electronic Structure and Charge Transport in Metal Oxid Electrodes Determined with Valence Band Spectroscopy and Electroanalytical Methods, MRS Spring Meeting, Phönix, AZ, US, 03-28 to 04-01 ☘

Braun Artur
Keynote Speaker: "Water oxidation with holes:What we learn from operando "synchrotron" studies", SPIE Conference, San Diego, US, 08-28 to 09-02 ☘ ○

Braun Artur
"X-rays And Neutrons: The Pick & Shovel For The Materials Scientist", Solar Fuel and Energy Storage Summary workshop of the Swiss-South African Joint Research Project, University of Pretoria, ZA, 10-06 to 10-07 ☘ ○

Braun Artur
X-ray Studies on Electrochemical Systems: Synchrotron Methods for Energy Materials: Batteries – Fuel Cells – PEC – Capacitors, BESSY II Foresight Workshop on Energy Materials Research, Berlin, DE, 10-10 to 10-11 ◆

Braun Artur
Intermediates in PEC water oxidation – how they come and how they go, PEC Reaktor Meeting, EPFL Lausanne, 11-10 to 08-10 ♣ ○

Braun Artur, Beckhoff Burkhard,, Boudoire Florent,, Braun Artur,, Burzan Niels,, Diale Mmantsae M.,, Housecroft Catherine E.,, Hu Yelin,, Kaser Hendrik,, Kolbe Michael,, Kroll Alexandra,, Mun Bongjin S.,
Putting life on iron oxide photoelectrodes: proteins, microbes, films, PS17 Biohybrid Solarcells, Slenaken, The Netherlands, NL, 08-04 to 08-07 ♣ ○

Braun Artur, Boudoire Florent, Heier Jakob, Toth Rita, Constable Edwin
Turning the Light Absorption of Photoclectrodes at the Mesoscale with a Bio-Mimetic Moth Eye Structure, MRS Spring Meeting, Phönix, AZ, US, 03-28 to 04-01 ♣ ○

Braun Artur, Burzan Niels
Artificial Photosynthesis – Investigation of the Bio-Inorganic Interface, NanoTera Closing Event, EPFL Lausanne, 04-25 to 04-26 ◆ ○

Braun Artur, Chen Qianli
On the metafunction of protons in ceramic electrolytes, QENS 2016 – 14th International conference on Applications of Quasielastic Neutron Scattering, Potsdam, DE, 09-05 to 09-09 ♣

Braun Artur, De Yoreo Jim, PDSC Members
PDSC Initial Review of 2017 MRS Spring Meeting Technical Program, Materials Research Society Program Development Sub-Committee PDSC Initial Review of 2017 MRS Spring Technical Program, Warrendale PA, US, 01-28 ■ ○

Braun Artur, De Yoreo Jim, PDSC Members
Program Development Sub-Committee Meeting, PDSC Review Call, , Materials Research Society MRS Fall Meeting 2017, Warrendale PA, US, 09-23 ■ ○

Braun Artur, Debajeet Bora, Yelin Hu, Florent Boudoire
Water oxidation with holes: what we learn from operando studies, COST CM 1104 Final Meeting, Osnabrück, Germany, DE, 03-27 to 03-30 ◆

Braun Artur, Gaillard Nicolas, Wang Heli, Miller Eric L.
MRS Spring Meeting 2016. Symposium EE2—Advancements in Solar Fuels Generation—Materials, Devices and Systems , Phoenix AZ, US, 03-28 to 04-01 ■

Braun Artur, Molenda Janina
Correlation of Charge Transfer and Electronic Structure in Lithium Battery Cathodes: How Can We Access and Assess It, MRS Spring Meeting, Phönix, AZ, US, 03-28 to 04-01 ◆

Braun Artur, Molenda Janina
X-rays And Neutrons: Pick & Shovel For The Materials Scientist, Polish-Swiss Battery Workshop LiBeV , Sils im Engadin, 06-01 to 06-05 ■ ○

Braun Artur, Rothkopf David, Barber Benjamin, Babbitt Bruce, Ismail Gulalai, Slat Boyan
Panel speakers "Putting the brakes on global warming", Foreign Policy Transformational Trends Forum 2015 in Washington D.C., Washington D.C., US, 2015-12-01 ♣ ○

Braun Artur, Y. Hu,, M. Graetzel,, D. Bora,, E. Constable,, F. Boudoire,, J. Guo
Water Oxidation with Holes – what we learn from Operando Studies, MRS Fall Meeting, Boston, Mas, US, 11-28 to 12-04 ♣

Clemens Frank
Keramische Verbundwerkstoffe, Hightech-Keramiken Workshop, Empa Akademie, Dübendorf, 11-21 ♣ ○

Clemens Frank
3D printing of ferroelectric devices using standard fused deposition modelling method, DKG Jahrestagung 2016, Freiberg, D, DE, 03-06 to 03-09 ♣

Clemens Frank
Soft Condensed Matter Sensors for Shape Sensing of Adaptive Structures, 4SMART Tagung, Darmstadt, DE, 04-05 to 04-08 ♣

Clemens Frank
Soft Condensed matter Hybrid Fiber Sensors for Motion Detection and Vital Funtions, CIMTEC, Perguia, IT, 06-05 to 06-10 ♣

Clemens Frank
Soft Condensed Matter Hybrid Fibre Sensors Vital Function Monitoring, Europ. Advanced Materials Congress, Stockholm, SE, 08-22 to 08-26 ♣ ○

Clemens Frank
3D printing of porous ferroelectric ceramics using fused deposition modelling and flexible thermoplastic ceramic filaments, CellMAT 2016, Dresden, DE, 12-06 to 12-09 ♣

Clemens Frank, Mark Melnykowycz
Feedstock development for sensor structures, using FDM technology, Topical Day: Additive Manufacturing, Empa Akademie, Dübendorf, 09-09 ■ ○

Gorjan Lovro
Smart processing analysis to overcome debinding problems in thermoplastic ceramic processing, 6th Int. Conf. on Shaping, Montpellier, FR, 07-18 to 07-20 ♣

High Performance Ceramics

Graule Thomas
Ceramics and Nanocomposite Research at Empa's Laboratory for High Performance Ceramics, Universität Bern, Workshop, Bern, 05-26 ▲ ○

Graule Thomas
Grundlagen der Herstellung technischer, High-Tech-Keramik; Pulversynthese und Pulveraufbereitung; Formgebungsverfahren; Sinterprozesse, Hightech-Keramiken Workshop, Empa Akademie, Dübendorf, 11-21 ▲ ○

Graule Thomas
Additive manufacturing technolgies – status at Empa's HLK, DKG: 6th international congress, Dresden, DE, 08-20 to 08-25 ♣ ○

Graule Thomas, F. Clemens
Application of fibers in filtration, fuel cell research, catalysis and photocatalysis – with a special focus on electrospinning technologies, SFB 799 summer school, , Eibenstock, DE, 09-14 ♣ ○

Graule Thomas, Franziska Knies,, Krisztina Schrantz, Christos Aneziris
Superhydrophilic and photocatalytic active ceramic glazes for sanitary ware, CIMTEC, Perugia, IT, 06-05 to 06-10 ♣

Graule Thomas, M. Wozniak,, D. Kata
Electrostatic and steric stabilization of oxides, carbides and borides in aqueous media, Borid-Workshop Keramika, Krakau, PL, 09-11 to 09-12 ♣ ○

Graule Thomas, V. Klimkevicius,, R. Makuska
A review on the steric stabilization of aqueous ceramic based dispersions, Polish Ceramic Conference , Krakau, PL, 09-13 ♣ ○

Graule Thomas, V. Klimkevicius,, Y. de Hazan,, R. Makuska
A review on the steric stabilization of aqueous dispersions by anion and cation type comb copolymers, ISHA 2016, Tainan, TW, 01-17 to 01-20 ♣ ○

Graule Thomas, V. Klimkevicius,, Y. de Hazan,, R. Makuska
Fundamental aspects of the steric stabilization of aqueous dispersions by anion and cation type comb copolymers, ICCAC Daytona 2016, Daytona, US, 01-24 to 01-25 ♣ ○

Graule Thomas, V. Klimkevicius,, Y. de Hazan,, R. Makuska
A review on the steric stabilization of aqueous dispersions by anion and cation type comb copolymers, 91. DKG Jahrestagung 2016, Freiberg, D, DE, 03-07 to 03-09 ♣ ○

Kübler Jakob
Mechanical characterization of joints, Shear Strength Tests on Dissimilar Materials, Workshop, Empa HLK, Dübendorf , 02-25 ■ ○

Kübler Jakob
Mechanical Properties of Ceramics, Hightech-Keramiken Workshop, Empa Akademie, Dübendorf, 11-21 ■ ○

Kübler Jakob
Application of Ceramics: Examples from HPC group Ceramic based Composites, Hightech-Keramiken Workshop, Empa Akademie, Dübendorf, 11-21 ■ ○

Kübler Jakob
Time dependent mechanical properties of Ultra High Temperature ZrB2 based cceramic composites, EMN Ceramics Meeting 2016, Honkong, HK, 01-22 to 01-31 ♣ ○

Kübler Jakob
Preparation of thermal protection systems via tape casting process, 6th Int. Conf. on Shaping, Montpellier, FR, 07-18 to 07-20 ♣

Kübler Jakob
EU-Project: CeraSphere, DKG: 6th international congress, Dresden, DE, 08-20 to 08-25 ♣ ○

Kübler Jakob
Mechanical characterization of joined dissimilar materials, ADMACOM Workshop, Bruxelles, BE, 09-14 to 09-15 ■ ○

Kübler Jakob
Ceramic spheres for buoyancy modules in deep-sea oil and gas exploration, 5th Int. Conf. : "Fractography of Advanced Ceramics", Smolenice, SK, 10-09 to 10-14 ♣ ○

Kübler Jakob
Ceramic spheres for buoyancy modules in deep-sea oil and gas exploration, World Conf. & Expo on Petrochemistry & Natural Resources, Dubai, AE, 10-24 to 10-26 ♣ ○

Kübler Jakob, F. Dalcanale,
Polymer Derived Ceramics for Biomedical Application: Pacemaker Electrode, 40. Sitzung SVMT-Fachgruppe Stukturintegrität, RMS Foundation , Bettlach, 04-06 ♣ ○

Lusiola Tony
The Impact of Microstructure in (K,Na)NbO3-based Lead-Free Piezoelectric Fibers: From Processing to Device Production for Structural Health Monitoring, International Scientifc Events, Materials, Methods & Technologies Conference, Elenite, BG, 06-26 to 06-30 ◆

Lusiola Tony
Design and characterization of polymer ceramic fibre interphase in hybrid materials for ultrasonic application, COST review workshop & meeting, Aveiro, PT, 10-09 to 10-12 ◆ ○

High Performance Ceramics

Madiba Itani G., Braun Artur, Maaza Malik
Vanadium Dioxide Coatings Smart Windows & Thermal Shielding in Outer Space, EPFL Swiss delegation visit to iThemba LABS (via Videoconference from Empa Dübendorf), Somerset West, South Africa, ZA, 07-16 ♣ ○

Madiba Itani, Madiba Itani G, Braun Artur, Maaza Malik
Vanadium dioxide thin films for energy efficient smart windows and thermal shielding in space applications, Empa Phd symposiun, Empa Akademie, Dübendorf, 2015-12-07 ♣

Mata-Osoro Gustavo
Shear Strength Tests, Shear Strength Tests on Dissimilar Materials, Workshop, Empa HLK, Dübendorf , 02-25 ▲ ○

Mata-Osoro Gustavo
Torsional shear strength on dissimilar materials, 21st Europ. Conference on Fracture, Catania, IT, 06-20 to 06-24 ♣

Melnykowycz Mark
Piezoresistive carbon-based hybrid sensor for body-mounted biomedical applications, 4th Int. conf. on vompetitive materials and technology processes, Miskolc, HU, 08-02 to 08-07 ♣

Melnykowycz Mark
Hybrid structure designs for biomedical applications with a focus on the use of conductive particle composite sensors materials, Biointerfaces Conference 2016, Zürich, 08-23 to 08-25 ◆

Melnykowycz Mark
soft condensed matter senor fibres based on nanocarbon composites, COST review & MultiComp 2016 Meeting, Kreta, GR, 10-18 to 10-21 ♣ ○

Moore Gareth-John, Braun Artur, Diale Mmantsae M.
Charge carrier dynamics in surface electrolyte interface in Hematite PEC cell, PS17 Biohybrid Solarcells, Slenaken, NL, 08-04 to 08-07 ◆

Naikade Manoj
Study of wettability of carbon and silicon carbide (SiC) by molten silicon and silicon-zirconium alloy using sessile drop technique, PhD symposium , Empa Akademie, Dübendorf, 11-14 ◆ ○

Ozog Paulina
Shaping of nanoporous alumina structure using aqueous UV curable latex based resins, 91. DKG Jahrestagung 2016, Freiberg, D, DE, 02-07 to 02-09 ♣

Sebastian Tutu
FLEXIBLE FERROELECTRIC HYBRID FIBERS FOR SOFT BODY SHAPE SENSING, XXII Polish-Czech Seminar on Structural and Ferroelectric Phase Transitions , Hucisko, PL, 05-16 to 05-20 ♣

Sebastian Tutu
FLEXIBLE FERROELECTRIC HYBRID FIBERS, ISAF Conference, Darmstadt, DE, 08-21 to 08-25 ◆

Sebastian Tutu
FLEXIBLE FERROELECTRIC HYBRID FIBERS FOR SOFT BODY SHAPE SENSING, COST review workshop & meeting, Aveiro, PT, 10-09 to 10-12 ♣ ○

Top Jens, Rita Toth, Bongjin S. Mun, Alexander Stephens, Catherine Housecroft, Artur Braun
In situ photoelectron spectroscopyona ruthenium complex for electrochemicalwater oxidation, Biohybrid Solarcells Satellite Meeting of the 17th International Congress on Photosynthesis Research , Slenaken, NL, 08-04 to 08-07 ◆

Toth Rita
Invited Speaker, Workshop on chemical computing, Tokyo, JP, 01-17 to 01-22 ♣ ○

Toth Rita, Braun Artur, Diale Mmantsae M., Maabong Kelebogile
Safe And Decentralised Home Fuel Production And Storage For Domestic Building And Mobility Applications, Global Risk Forum GRF Davos, Davos, 08-28 to 08-31 ◆

Toth Rita, Braun Artur, Walliser Roche M., Bora Debajeet K., Murray Niamh S., Fortunato G., Housecroft Catherine E., Constable Edwin C.
A self-assembled, multicomponent water oxidation device, 18th Topical Meeting of the International Society of Electrochemistry, Gwangju, KR, 03-08 to 03-11 ◆

Toth Rita, Fischer Thomas, Di Fonzo Fabio, Diale Mmantsae M.
MRS 2017 Fall Meeting Symposium "On the way to sustainable solar fuels – New concepts, materials and system integration", MRS 2017 Fall Meeting Symposium "On the way to sustainable solar fuels – New concepts, materials and system integration", Boston MA, US, 2017-11-26 to 2017-12-01 ■

Toth Rita, Walliser M. Roche, Lagzi Istvan, Mathys Daniel, Marot Laurent, Braun Artur, Housecroft E. Catherine and Constable C. Edwin
Understanding the formation of aligned, linear arrays of Ag nanoparticles, Swiss Nanoconvention 2016, Basel, 06-30 to 07-01 ◆

Joining Technologies and Corrosion

Bulthaupt Lars
Highly-energetic Al, CuO thermite coatings through nanoparticle composites, HETC Quarterly Meeting, Dübendorf, 08-17 ♣

Cancellieri Claudia, D. Scopece, A. Beni, D. Passerone, F. Evangelisti, D. Rentsch, P. Schmutz, L.P.H Jeurgens
Functional oxides on metals: growth, characterization and reactivity, Topical day of modelling (High-performance multiscale modelling II), Empa Akademie Dübendorf, 05-25 ♣ ○

Joining Technologies and Corrosion

Cancellieri Claudia, F. Evangelisti, L.P.H Jeurgens, P. Schmutz
Al-oxihydroxide growth and structural characterization, NAREP Meeting Empa, Dübendorf, 09-05 ♣

Cancellieri Claudia, F. Moszner, M. Chiodi, S. Yoon, D. Ariosa, J. Janczak-Rusch, L.P.H. Jeurgens
Effect of stress and nano-confinement on thermal stability of Cu, W multilayers, ICMTF-SVC Workshop, Chicago, US, 10-01 to 10-05 ♣

Cancellieri Claudia, F. Moszner, M. Chiodi, S. Yoon, J. Janczak-Rusch, L.P.H. Jeurgens
Investigation of thermal stability of Cu, W multilayers by in-situ x-ray diffraction, ECM-30 Basel, Basel, 08-28 to 09-01 ◆

Chiodi Mirco, A. Beni, N. Weyrich, M. Muñoz, S. Pascarelli, L. P. H. Jeurgens1
Chemical reactions at buried W, Ti, Al2O3 interfaces using high lateral-resolution XAS, ESRF User Meeting, Grenoble, FR, 02-05 to 02-11 ◆

Chiodi Mirco, C. Cancellieri, F. Moszner, M. Andrzejczuk, J. Janczak-Rusch, L.P.H. Jeurgens
Ag migration through metal, ceramic nano-multilayers: interplay between temperature, stress-relaxation and oxygen-enhanced mass transport, Nanotexnology 2016 , Thessaloniki, GR, 07-03 to 07-08 ♣

Chiodi Mirco, C. Cancellieri, F. Moszner, M. Andrzejczuk, J. Janczak-Rusch, L.P.H. Jeurgens
Ag migration through metal, ceramic nano-multilayers: interplay between temperature, stress-relaxation and oxygen-enhanced mass transport, International Workshop on Nanoscale Diffusion & Reactions at Empa Academy, Dübendorf, 08-31 to 09-02 ♣

Chiodi Mirco, C. Cancellieri, F. Moszner, M. Andrzejczuk, J. Janczak-Rusch, L.P.H. Jeurgens
Ag migration through metal, ceramic nano-multilayers: interplay between temperature, stress-relaxation and oxygen-enhanced mass transport, International Conference on Nanojoining and Microjoining, NMJ2016, Niagara Falls, CA, 09-25 to 09-28 ♣

Chiodi Mirco, F. Moszner, C. Cancellieri, J. Janczak-Rusch, L.P.H. Jeurgens
Nanostructured filler materials for advanced joining applications, International Conference on Nanojoining and Microjoining, NMJ2016, Niagara Falls, CA, 09-25 to 09-28 ◆

Chiodi Mirco, F. Moszner, C. Cancellieri, S. Yoon, D. Ariosa, J. Janczak-Rusch, L.P.H. Jeurgens
Thermal stability of Cu, W nano-multilayers, International Conference on Nanojoining and Microjoining, NMJ2016, Niagara Falls, CA, 09-25 to 09-28 ◆

Evangelisti Fabio, A. Beni, L. P. H. Jeurgens, P. Schmutz, C. Cancellieri
Structural and in-situ electrochemical characterization of oxide phase transformations at oxide, liquid interfaces, MARVEL PP7 Workshop in Villigen, Villigen, 03-03 ◆

Evangelisti Fabio, A. Beni, L. P. H. Jeurgens, P. Schmutz, C. Cancellieri
Structural and in-situ electrochemical characterization of oxide phase transformations at oxide, liquid interfaces, MARVEL site visite EPFL, Lausanne, 04-19 ◆

Evangelisti Fabio, A. Beni, L. P. H. Jeurgens, P. Schmutz, C. Cancellieri
Structural and in-situ electrochemical characterization of oxide phase transformations at oxide, liquid interfaces, Swiss Nanoconvention , Basel, 07-01 ◆

Faller Markus
Zustand von Befestigungselementen aus nicht rostenden Stählen und verzinktem Stahl im Hinterlüftungsspalt von vorgehängten Fassaden, GfKORR-Arbeitskreis "Korrosion im Bauwesen", Helgoland, DE, 05-23 ♣ ○

Faller Markus
GfKORR-Arbeitskreis "Korrosion im Bauwesen", Helgoland, DE, 05-23 ■ ○

Faller Markus
Untersuchungen eines gebrochenen Kandelabers aus Aluminium, 3-Länder-Korrosionstagung, Frankfurt, DE, 04-21 to 04-22 ♣ ○

Faller Markus, zusammen mit GfKORR, ASMET, TVFA und TU Wien
3-Länder-Korrosionstagung "Leichtbau – eine Notwendigkeit, Korrosion ein wichtiger Aspekt", Frankfurt, DE, 04-21 to 04-22 ■ ○

Hauert Roland, K. Thorwarth, C.V. Falub, U. Müller, G. Thorwarth,, M. Stiefel, B. Weisse, Ch. Affolter, M. Tobler, C. Voisard
State of the art and failure mechanisms of DLC coated articulating joint replacements, Les revêtements de carbone: état de l'art et principaux domaines d'application, Ecole des Mines de Saint-Etienne, Saint-Etienne, 04-07 ♣ ○

Hauert Roland, L. Bernard, T. Suter
Lokale Oberflächenanalytik im Nanometer Bereich, Technischen Fachtagung Oberflächentechnik in der Mikrotechnik, Biel, 05-19 ♣

Ilic Emilija
Predicting and Characterizing. Deterioration at Coating, Substrate Interfaces, Doctoral Program in Materials Science and Engineering (EDMX) Tribology and Interfacial Chemistry Group EPFL, Lausanne, 10-04 ♣

Ilic Emilija, R. Hauert, P. Schmutz, T. Suter, S. Mischler
Predicting Deterioration Phenomena at Coating, Substrate Interfaces, FEMS Junior Euromat 2016, Lausanne, 07-10 to 07-14 ◆

Janczak Jolanta, Jeurgens Lars
International Workshop on Nanoscale Diffusion & Reactions, Dübendorf, Empa Academy, 08-31 to 09-02 ■

Joining Technologies and Corrosion

Janczak-Rusch Jolanta
Session Chair at the11th International Conference on Brazing, High Temperature Brazing and Diffusion Bonding, Achen, DE, 06-07 to 06-09 ▲

Janczak-Rusch Jolanta
Structural Evolution of nanostructured Ag-based filler metals upon fast heating, 11th International Workshop on Subsecond Thermophysics, Krakau, PL, 06-21 to 06-24 ♣ ○

Janczak-Rusch Jolanta
Session Chair at the International Conference on Nanojoining & Microjoining (NMJ2016) for Interfacial Phenomena in Joining and Processing, Niagara Falls, CA, 09-25 to 09-28 ▲

Jeurgens Lars
Phase Stability of Oxide Overgrowths on Metals, Alloys and Metallic Coatings, International Conference on Metallurgical Coatings and Thin Films, San Diego, US, 04-25 to 04-29 ♣ ○

Jeurgens Lars P.H.
Co-Chair at the International Conference on Nanojoining & Microjoining (NMJ2016), International Conference on Nanojoining & Microjoining (NMJ2016), Niagara Falls, CA, 09-25 to 09-28 ▲

Jeurgens Lars P.H., M. Chiodi, F. Moszner, C. Cancellieri, G. Kaptay, J. Janczak-Rusch
Interface Design for Micro-, Nano-Joining, International Conference on Nanojoining & Microjoining (NMJ2016), Niagara Falls, CA, 09-25 to 09-28 ♣ ○

Jeurgens Lars, J. Lipecka, J. Janczak-Rusch, M. Lewandowska,, M. Andrzejczuk, G. Richter, L. P.H. Jeurgens,
The size-dependent melting behaviour of Al-12Si, AlN nanomultilayered System, 2017 Symposium on Functional Nanomaterials: Emerging Nanomaterials and Nanotechnology , San Diego, US, 02-26 to 03-02 ♣

Partovi-Nia Rachel, T. Suter, P. Schmutz
Scanning Electrochemical Nanocapillary (SEN) characterization of local electrochemical reactivity, NACE International Meeting, Vancouver, CA, 03-05 to 03-11 ♣

Pawelkiewicz-Köbel Magdalena, L. Leoty, Z. Balogh, P. Uggowitzer, P. Schmutz
Influence of dissolved Zn ions on bio-degradation of Mg-based implants material, Biointerfaces International 2016, University of Zurich, Zurich, 08-23 to 08-25 ◆

Mechanics of Materials and Nanostructures

Ast Johannes, Guo Yi, Michler Johann, Maeder Xavier
Insitu HR-EBSD characterization during micro-mechanical testing, MRS Fall Meeting, Boston, US, 11-27 to 12-02 ♣

Ast Johannes, Merle Benoit, Durst Karsten, Göken Mathias, Maeder Xavier, Michler Johann
Bruch-Experimente an Mikrobiegebalken aus NiAl, 37. Adelbodner Werkstoffseminar, Adelboden, 03-12 to 03-19 ♣

Ast Johannes, Merle Benoit, Durst Karsten, Göken Mathias, Mohanty Gaurav, Michler Johann, Maeder Xavier
In-situ EBSD measurements during micro-cantilever fracture experiments in W single crystals, Gordon Research Conference, Lewiston, US, 07-22 to 07-30 ♣

Ast Johannes, Mohanty Gaurav, Michler Johann, Maeder Xavier
In-situ EBSD measurements during micro-cantilever experiments in single crystalline tungsten, Gordon Research Conference, Lewiston, US, 07-22 to 07-30 ◆

Bertero Enrico, Hasegawa Madoka
Electrodeposition of Stainless Steel micro-components in UV-LIGA moulds, 3rd SELECTA Workshop – Happy Plating, Wiener Neustadt, AT, 08-29 to 08-31 ♣

Bertero Enrico, Hasegawa Madoka
Electrodeposited amorphous-like and austenitic stainless steel: synthesis, miniaturisation and physical properties, SELECTA Mid-term review meeting and Workshop, Göteborg, SE, 12-05 to 12-09 ♣

Bertero Enrico, Hasegawa Madoka, Michler Johann, Philippe Laetitia
Electrodeposition of Fe-Cr-Ni stainless steel: fabrication parameters and material properties, Empa PhD Symposium 2016, Dübendorf, 11-14 ◆

Best James P.
Raman spectroscopy as a technique to understand the mechanical behaviour of materials, Workshop: Raman Microscopy – A strong tool for chemical imaging, Zürich, 02-03 to 02-05 ♣ ○

Best James P., Gaylord Guillonneau, Grop Serge, Taylor Aidan A., Frey Damian, Longchamp Quentin, Breguet Jean-Marc, Michler Johann
In Situ High-Temperature Nano-Impact Testing of a Hard Coating System, International Conference on Metallurgical Coatings and Thin Films, San Diego, US, 04-25 to 04-29 ◆

Best James P., Redel Engelbert, Gliemann Hartmut, Wöll Christof, Michler Johann
Nanomechanical Investigation of a Thin-film Multi-layered Electroceramic, Metalorganic framework Optical Device, Deutsche Physikalische Gesellschaft Frühjahrstagung, Regensburg, DE, 03-06 to 03-11 ◆

Best James P., Zechner Johannes, Wheeler Jeffrey M., Wehrs Juri, Morstein Marcus, Michler Johann
High-temperature micro-mechanical testing of a thin-film CrN tooling system, Deutsche Physikalische Gesellschaft Frühjahrstagung, Regensburg, DE, 03-06 to 03-11 ♣

Frantz Cédric, Vicente Manzano Cristina, Lauria Alessandro, Michler Johann, Niederberger Markus, Philippe Laetitia
Electrophoretic deposition of TiO2 nanoparticles on anodized aluminium, 67th Annual Meeting of the International Society of Electrochemistry, Den Haag, NL, 08-21 to 08-26 ♣

Frantz Cédric, Vicente Manzano Cristina, Lauria Alessandro, Niederberger Markus, Storrer Cédric, Philippe Laetitia
Anodisation de l'aluminium et ses alliages pour l'industrie, Journée Technique et Assemblée Générale de la SGO-SST, Biel, 05-19 ♣

Frantz Cédric, Zhang Yucheng, Michler Johann, Philippe Laetitia
Electrodeposition of Lead telluride thin films and nanowires, 67th Annual Meeting of the International Society of Electrochemistry, Den Haag, NL, 08-21 to 08-26 ◆

Grop Serge, Schwiedrzik Johann Jakob, Best James P., Guillonneau Gaylord, Longchamp Quentin, Michler Johann, Breguet Jean-Marc
An in situ indentation system for high dynamics nanomechanical measurements, MARSS 2016, Paris, FR, 07-18 to 07-22 ♣

Guerra-Nuñez Carlos, Zhang Yucheng, Li Meng, Erni Rolf, Michler Johann, Park Hyung Gyu, Savu Raluca, Moshkalev Stanislav, Utke Ivo
Nucleation control of titanium oxide films by atomic layer deposition on multiwall carbon nanotubes: towards next generation solar cells, 9th Brazilian-German Workshop on Applied Surface Science, Maresias, BR, 04-10 to 04-14 ◆

Guerra-Nuñez Carlos, Zhang Yucheng, Li Meng, Erni Rolf, Park Hyung Gyu, Utke Ivo
Surface and interface studies of TiO2 thin films deposited on carbon nanotubes, Trends in Nanotechnology International Conference (TNT2016), Fribourg, 09-05 to 09-09 ◆

Guerra-Nuñez Carlos, Zhang Yucheng, Li Meng, Erni Rolf, Park Hyung Gyu, Uke Ivo
Surface and interface studies of TiO2 thin films deposited on carbon nanotubes, Atomic Layer Deposition Conference (ALD 2016), Dublin, IE , 07-24 to 07-27 ◆

Guo Yi, Ast Johannes, Michler Johann, Maeder Xavier
Insitu HR-EBSD characterization during micro-mechanical testing, RMS EBSD 2016, Manchester, GB, 03-22 to 03-23 ♣

Guo Yi, Schwiedrzik Johann Jakob, Michler Johann, Maeder Xavier
In-situ HR-EBSD investigation of twin growth in CP-titanium by micro-pillar compression testing, Gordon Research Conference, Lewiston, US, 07-22 to 07-30 ◆

Höflich Katja, Jurczyk Jakub, Kapusta Czeslaw, Zhang Yucheng, Christiansen Silke, Utke Ivo
Electron beam induced deposition of silver based nanostructures, CELINA Annual Meeting, Krakow, PL, 06-17 to 06-21 ♣

Maeder Xavier, Neels Antonia, Döbeli Max, Dommann Alex, Widrig Beno, Ramm Jürgen
Investigation of the oxidation of thin coatings comprising Ni alu-minides, ICMCTF, San Diego, US, 04-25 to 04-29 ♣

Maeder Xavier, Pillatsch Lex, Whitby James, Ast Johannes, Michler Johann
The Quadprobe FIB – the Swiss Knife of Microanalysis, CCMX Annual Meeting 2016, Bern, 05-13 ♣ ○

Michler Johann
International Conference on metallurgical coatings and thin films, San Diego, US, 04-25 to 04-29 ▲

Michler Johann
Recent Advances in Nanomechanical Testing -Variable Temperature, Ultra-High Strain Rates, In Situ EBSD Experiments, 17th International Congress on Experimental Mechanics (ICEM17) , Rhodos, GR, 07-03 to 07-07 ♣ ○

Michler Johann, Mohanty Gaurav, Schwiedrzik Jakob, Grop Serge, Wehrs Juri, Breguet Jean-Marc
In Situ, High Dynamic Testing at Micron Scale – Studying High Cycle Fatigue in Micropillars, MRS Fall Meeting Boston, Boston, US, 11-27 to 12-02 ♣

Michler Johann, MRS Fall Meeting Boston
Recent Advances in Nanomechanical Testing -Variable Temperature, Ultra-High Strain Rates, In Situ EBSD Experiments, MRS Fall Meeting Boston, Boston, US, 11-27 to 12-02 ♣ ○

Mieszala Maxime, Hasegawa Madoka, Guillonneau Gaylord, Bauer Jens, Kraft Oliver, Michler Johann, Philippe Laetitia
Micro-mechanics of amorphous NiB composites with 3D hierarchical cellular structure, CCMX Annual Meeting , Bern, 05-11 ◆

Mieszala Maxime, Hasegawa Madoka, Mischler Stefano, Michler Johann, Philippe Laetitia
Electrochemical Synthesis of High Strength Regular Metal Foams and 3D Micro-Lattices, 229th ECS Meeting, San Diego, US, 05-29 to 06-02 ♣ ○

Mieszala Maxime, Lozano Pablo, Axinte Dragos, Michler Johann, Mischler Stefano, Philippe Laetitia
A study of surface, subsurface modification observed in abrasive waterjet machining using a nickel model material, Eurocorr – European Corrosion Congress 2016, Montpellier, FR, 09-11 to 09-15 ♣

Mieszala Maxime, Lozano Torrubia Pablo, Mischler Stefano, Axinte Dragos, Michler Johann, Philippe Laetitia
Nickel Electrodeposits as a Model Material to Study Abrasive Waterjet Machining, 229th ECS Meeting, San Diego, US, 05-29 to 06-02 ♣

Mohanty Gaurav, Schwiedrzik Jakob, Grop Serge, Wehrs Juri, Breguet Jean-Marc, Michler Johann
In-situ, transient and high dynamic testing at the micron scale: studying time dependent plasticity and high cycle fatigue of nano-crystalline and single crystalline metals, Materials Science and Engineering Congress, Darmstadt, DE, 09-27 to 09-29 ♣

Pethö Laszlo
Additive manufacturing combining electrochemical processes with diverse lithography tools, Additive Manufacturing Workshop, Dübendorf, 09-09 ♣ ○

Pethö Laszlo, Mieszala Maxime, Hasegawa Madoka, Guillonneau Gaylord, Bauer Johann, Kraft Oliver, Mischler Stefano, Michler Johann, Philippe Laetitia
Micro-mechanics of LIGA structures and composites with 3D hierar-chical cellular structure, Swiss Nanoconvention, Basel, 06-30 to 07-01 ◆

Pethö Laszlo, Schoeppner Rachel, Taylor Aidan, Chawla Vipin, Zechner Johannes, Mohanty Gaurav, Guerra-Nuñez Carlos, Michler Johann
Structural metallic films for enhanced mechanical properties using nanoparticle and ALD strengthening, Swiss Nanoconvention, Basel, 06-30 to 07-01 ◆

Pethö Laszlo, Wehrs Juri, Niederberger Christoph, Michler Johann
SU-8 UV-LIGA molds for michromechanical test specimens, CMi Annual Review Meeting, Lausanne, 05-03 ◆

Philippe Laetitia
Mechanical properties of micro and nanostructures: in situ – testing methods and fundamentals, 2nd SELECTA Workshop, Dresden, DE, 03-06 to 03-10 ♣ ○

Philippe Laetitia
Pulse Plating, 3rd SELECTA Workshop – Happy Plating, Wiener Neustadt, AT, 08-29 to 08-31 ♣ ○

Philippe Laetitia
Electrochemistry in Corrosion, Workshop Metrohm, Zofingen, 11-14 to 11-16 ♣ ○

Philippe Laetitia, Stefano Mischler, Patrik Schmutz
Characterization of Anodic Film and coated system- Theory (DC and AC method). Electrochemical IMpedance Spectroscopy (EIS), Electrochemistry in Corrosion Research Workshop, Metrohm Zofingen, 11-14 to 11-16 ♣ ○

Puydinger Dos Santos Marcos, Velo Murilo, Domingos Renan Daniel, Béron Fanny, Kleber Roberto Pirota, Moshkalev Stanislav, Diniz José Alexandre, Utke Ivo
Electric and Magnetic transport characterization of post-growth annealing process of Co-C grown by focused-electron-beam-induced deposition, FEBIP Conference, Wien, AT, 07-05 to 07-09 ♣

Puydinger dos Santos Marcos, Velo Murilo, Domingos Renan Daniel, Zhang Yucheng, Maeder Xavier, Guerra-Nuñez Carlos, Béron Fanny, Pirota Kleber Roberto, Moshkalev Stanislav, Diniz José Alexandre, Utke Ivo
Electric and magnetic transport characterization of post-growth annealing process of Co-C grown by FEBID, 61st Annual Conference on Magnetism and Magnetic Materials, New Orleans, US, 10-31 to 11-04 ◆

Puydinger Dos Santos Marcos, Zhang Yucheng, Maeder Xavier, Guerra-Nuñez Carlos, Béron Fanny, Pirota Kleber Roberto, Moshkalev Stanislav, Diniz José Alexandre, Utke Ivo
Electrical transport improvements by post-growth annealing process of cobalt-carbon deposits grown by focused-electron-beam-induced deposition, Chemistry for ELectron-Induced NAnofabrication (CELINA) 2016, Krakow, PL, 05-18 to 05-20 ◆

Puydinger Dos Santos Marcos, Zhang Yucheng, Maeder Xavier, Guerra-Nuñez Carlos, Béron Fanny, Pirota Kleber Roberto, Moshkalev Stanislav, Diniz José Alexandre, Utke Ivo
Electric and Magnetic transport characterization of post-growth annealing process of Co-C grown by focused-electron-beam-induced deposition, FEBIP 2016, Wien, AT, 07-03 to 07-08 ◆

Puydinger dos Santos Marcos, Zhang Yucheng, Maeder Xavier, Guerra-Nuñez Carlos, Béron Fanny, Pirota Kleber Roberto, Moshkalev Stanislav, Diniz Jose Alexandre, Utke Ivo
Electric transport characterization of post-growth annealing process of Co-C grown by focused-electron-beam-induced deposition, XV Brazil MRS Meeting , Campinas, BR, 09-25 to 09-29 ♣

Schoeppner Rachel, Taylor Aidan, Chawla Vipin, Zechner Johannes, Mohanty Gaurav, Pethö Laszlo, Guerra-Nuñez Carlos, Michler Johann
Structured Metallic Films for Enhanced Mechanical Properties Using Nanoparticle and ALD Strengthening, International Conference on Metallurgical Coatings and Thin Films, San Diego, US, 04-25 to 04-29 ◆

Schoeppner Rachel, Taylor Aidan, Guerra-Nuñez Carlos, Michler Johann
Interfacial Adhesion of Compositional Gradient Ternary FCC Alloy Films, International Conference on Metallurgical Coatings and Thin Films, San Diego, US, 04-25 to 04-29 ♣

Schwiedrzik Johann Jakob
Experimental, theoretical and numerical investigation of the nonlinear micro- mechanical properties of bone, Swiss Medtech Day 2016, Bern, 06-07 ♣ ○

Schwiedrzik Johann Jakob, Mirzaali Mohammad, Best James, Wehrs Juri, Thaiwichai Suwanwadee, Michler Johann, Zysset Philippe, Wolfram Uwe
Indentation and Raman properties of human cortex and their relation to age, gender, and macromechanics, ESB – The 22nd Congress of the European Society of Biomechanics, Lyon, FR, 07-10 to 07-13 ♣

Schwiedrzik Johann Jakob, Mohanty Gaurav, Grop Serge, Frey Damian, Longchamp Quentin, Breguet Jean-Marc, Michler Johann
In situ micromechanical testing inside the scanning electron micro-scope at cryogenic temperatures, ICEM17 – 17th International Conference on Experimental Mechanics, Rhodos, GR, 07-03 to 07-09 ♣

Mechanics of Materials and Nanostructures

Schwiedrzik Johann Jakob, Raghavan Rejin, Rüggeberg Markus, Wehrs Juri, Adusumalli Ramesh, Zimmermann Tanja, Michler Johann
Identification of in situ lignin yield stress based on micropillar compression and micromechanical modeling of the wood cell wall, ICEM17 – 17th International Conference on Experimental Mechanics, Rhodos, GR, 07-03 to 07-09 ☙

Szkudlarek Aleksandra, Puydinger dos Santos Marcos, Rydosz Artur, Utke Ivo
Granular metals prepared by FEBID from copper and gold metalorganic precursors for gas-sensing applications, CELINA Annual Meeting, Krakow, PL, 06-17 to 06-21 ☙

Utke Ivo
FEBIP Conference, Wien, AT, 07-07 ▲

Utke Ivo
Tutorial on Simulation of Gas Injection Systems, FEBIP Conference, Wien, AT, 07-05 to 07-09 ☙ ○

Utke Ivo
Review on Continuum Modelling in focused electron beam induced processing, FEBIP Conference, Wien, AT, 07-05 to 07-09 ☙ ○

Vaz Alfredo R., Szkudlarek Aleksandra, Zhang Yucheng, Moshkalev Stanislav, Kapusta Czeslaw, Utke Ivo
Direct writing of nanowires of Cu-C by focused electron beam induced deposition and their electrical properties, 9th Brazilian-German Workshop on Applied Surface Science, Maresias, BR, 04-10 to 04-14 ◆

Vicente Manzano Cristina, Best James, Schwiedrzik Johann Jakob, Cantarero Andres, Michler Johann, Philippe Laetitgia
The Influence of Thickness, Interpore Distance and Compositional Structure on the Optical Properties of Self-Ordered Anodic Aluminum Oxide Films, Trends of nanotechnology, TNT, Fribourg, 09-05 to 09-09 ☙

Wehrs Juri, Deckarm Michael Johannes, Wheeler Jeffrey M.
Elevated temperature micropillar compression transient tests on nanocrystalline Palladium-Gold: InSitu-Probing of activation parame-ters at the lower limit of crystallinity, ICEM17, Rhodos, GR, 07-03 to 07-09 ☙

Nanoscale Materials Science

Bacani Mirko, Marioni Miguel A., Schwenk Johannes, Romer Sara, Zhao Xue, Guiller Alexandre, Hug Hans J.
Skyrmions in thin-film multilayers with interfacially-induced Dzyaloshinskii-Moriya interaction observed by MFM, American Physical Society March Meeting 2016, Baltimore, US, 03-14 to 03-18 ☙

Bacani Mirko, Schwenk Johannes, Penedo Marcos, Zhao Xue, Marioni Miguel A., Hug Hans J.
Room-temperature skyrmions in Ir, Co, Pt multilayers with inhomogeneous Dzyaloshinskii-Moriya interaction, 2016 Swiss Workshop on Materials with Novel Electronic Properties, Les Diablerets, 07-06 to 07-08 ☙

Bacani Mirko, Schwenk Johannes, Zhao Xue, Penedo Marcos, Marioni Miguel A., Hug Hans J.
Room-temperature skyrmions in Ir, Co, Pt multilayers with inhomogeneous Dzyaloshinskii-Moriya interaction observed by MFM, Swiss Physical Society Annual Meeting, Lugano, 08-23 to 08-25 ☙

Crockett Rowena
VSS, Swiss Tribology technical meeting 2016, Winterthur, 06-02 ■

Crockett Rowena
Influence of polysaccharide chain conformation on friction and adhesion, Biointerfaces 2016, Zurich, 08-23 to 08-25 ☙ ○

Ernst Karl-Heinz
32nd Meeting of the Swiss Working Group of Surfaces and Interfaces, Fribourg, 01-22 ■

Ernst Karl-Heinz
Stereochemistry in flatland: 2D crystals and unidirectional molecular motion, Physical Chemistry Seminar EPFL, Lausanne, 03-03 ☙ ○

Ernst Karl-Heinz
Broken mirror symmetry and inelastic electron tunneling: single–molecular dynamics and unidirectional motors at surfaces, Physics Department Seminar, Hong Kong Baptist University, Hong Kong, CN, 05-17 ☙ ○

Ernst Karl-Heinz
Molecular recognition among aromatic hydrocarbons at surfaces, electron spin selectivity & molecular motors, Hong Kong University of Science and Technology, Department of Physics Colloquium, Hong Kong, CN, 05-19 ☙ ○

Ernst Karl-Heinz
How to get your great ideas across: feed-back from an ERC CoG panel member, SCNAT Young Faculty Meeting, Bern, 06-08 ☙ ○

Ernst Karl-Heinz
Stereochemistry in Flatland: Molecular recognition among non-planar aromates at surfaces, Physikalisch-Chemisches & funCOS Kolloquium, Friederich-Alexander Universität Erlangen, Erlangen, DE, 06-21 ☙ ○

Ernst Karl-Heinz
Chirality in flatland: molecular recognition, spin filtering and unidirectional motors at surfaces, Abteilung Anorganische Chemie Seminar, Fritz-Haber-Institut der MPG, Berlin, DE, 10-26 ☙ ○

Ernst Karl-Heinz
Functional nonplanar aromatic molecules at surfaces: molecular recognition, spin filtering and unidirectional motors, Festkörperphysik Kolloquium, TU München, München, DE, 11-17 ☙ ○

Ernst Karl-Heinz
Chirality and the Evolution of Molecular Structure, Gruppenseminar TUM 20, Physik, U München, München, Garching, DE, 11-18 ♣ ○

Ernst Karl-Heinz
Stereochemistry in Flatland: Intermolecular Recognition and Molecular Machines, Evening Lecture of the University Freiburg, Freiburg i. Br., DE, 11-28 ♣ ○

Ernst Karl-Heinz
Stereochemical recognition of chiral non-planar aromatic hydrocarbons on surfaces, GDCh-Kolloquium Department of Chemistry, Philipps-Universität Marburg, Marburg, DE, 12-07 ♣ ○

Ernst Karl-Heinz
Stereochemical recognition among hydrocarbons at surfaces, SSNS'16, Furano, Japan, 13. 1. – 17. 1. 2016, JP, 01-13 to 01-17 ♣ ○

Ernst Karl-Heinz
Modification of surfaces with non-planar hydrocarbons, 20th Symposium on Atomic, Cluster and Surface Physics (SASP), Davos, 02-07 to 02-12 ♣ ○

Ernst Karl-Heinz
Non-planar aromatic hydrocarbons and metal surfaces: Is there any reasonable prediction of lateral interactions or binding sites?, Probing Potential Energy Surfaces (PPES IV), Zermatt, 04-10 to 04-15 ♣ ○

Ernst Karl-Heinz
Back-to-back or belly-to-belly: Stereochemical recognition of nonplanar aromatic hydrocarbons at surfaces,, 2016 International Workshop on Nanomaterials and Nanodevices (IWNN & ICON2), Beijing, CN, 07-08 to 07-10 ♣ ○

Ernst Karl-Heinz
A special historical aspect of chiral crystallization: Otto Wallach & Wallach's rule, 2016 International Workshop on Nanomaterials and Nanodevices (IWNN & ICON2), Changchun, CN, 07-11 to 07-12 ♣ ○

Ernst Karl-Heinz
Stereochemical recognition of chiral non-planar aromatic hydrocarbons on surfaces, Chirality 2016, Heidelberg, DE, 07-24 to 07-27 ♣ ○

Ernst Karl-Heinz
Stereochemical recognition among non-planar aromatic hydrocarbons at surfaces, Interfaces and Energy Summer School , Göttingen,, DE, 09-04 to 09-09 ♣ ○

Ernst Karl-Heinz
World in a Mirror: chirality and the emergence of molecular structure, Interfaces and Energy Summer School , Göttingen, DE, 09-04 to 09-09 ♣ ○

Ernst Karl-Heinz
Molecular chirality at surfaces: 2D crystallization, single molecule Manipulation and unidirectional motors, 66th Annual Meeting of the Austrian Physical Society (OEPG16), Wien, AT, 09-27 to 09-29 ♣ ○

Ernst Karl-Heinz
Helical Molecules Acting at Spin Filters, ELCH Autumn School , Schloss Waldthausen, Mainz, DE, 10-10 to 10-12 ♣ ○

Ernst Karl-Heinz
Helical molecules at surfaces: self-assembly, spin filtering and unidirectional motors, IAS Focused Program on Advanced Microscopy and Spectroscopy of Supramolecular and Macromolecular Systems on Surfaces, Hong Kong, CN, 12-12 to 12-15 ♣ ○

Ernst Karl-Heinz, Mairena Anais, Parschau Manfred
Chiral recognition among non-planar aromatic hydrocarbons on metal surfaces, AVS 63rd International Symposium and Exhibition, Nashville, TN, US, 11-06 to 11-10 ♣

Fischer Maria
Ternary and Quaternary Aluminum Oxynitride Thin Films by Reactive DC Magnetron Sputter Depostition, Mathis Trant, Kerstin Thorwarth, Hans-Josef Hug, Jörg Patscheider, Empa PhD Symposium, 11-14 ♣

Fischer Maria, Mathis Trant, Kerstin Thorwarth, Hans-Josef Hug, Jörg Patscheider
Properties Evolution in Al-O-N Thin Films, Plasma Surface Engineering (PSE) 2016, Garmisch-Partenkirchen, DE, 09-12 to 09-16 ◆

Fischer Maria, Trant Mathis, Thorwarth Kerstin, Hug Hans Josef, Patscheider Jörg
AlON Thin Films Deposited by R-CFDCMS, 32nd Swiss Working Group for Surface and Interface Science (SAOG) Meeting, Freiburg, 01-22 ◆

Fischer Maria, Trant Mathis, Thorwarth Kerstin, Hug Hans Josef, Patscheider Jörg
Aluminum Oxynitride in TEQUALON: sputter deposited thin films of an upcoming material system, Invited talk for a group seminar of the Ion Beam Physics Institute (IBP) of ETHZ, Zürich, 03-09 ♣ ○

Fischer Maria, Trant Mathis, Thorwarth Kerstin, Hug Hans Josef, Patscheider Jörg
Aluminum OxyNitride Thin Films by Reactive Direct Current Magnetron Sputter Deposition, 43rd International Conference On Metallurgical Coatings & Thin Films, San Diego, US, 04-25 to 04-29 ♣

Gehrig Jeffrey C., Penedo Marcos, Parschau Manfred, Schwenk Johannes, Marioni Miguel A., Hudson Eric W., Hug Hans-Josef
The Role of Entropic Forces in the Dynamics of a Molecular Rotor, Swiss Working Group for Surface and Interface Science Meeting (SAOG 2016), Fribourg, 01-22 ◆

Gehrig Jeffrey C., Penedo Marcos, Parschau Manfred, Schwenk Johannes, Marioni Miguel A., Hudson Eric W., Hug Hans-Josef
The Role of Entropic Forces in the Dynamics of a Molecular Rotor, International Scanning Probe Microscopy Conference (ISPM 2016), Grindelwald, 06-12 to 06-15 ♣

Gehrig Jeffrey C., Penedo Marcos, Parschau Manfred, Schwenk Johannes, Marioni Miguel A., Hudson Eric W., Hug Hans-Josef
The Role of Entropic Forces in the Dynamics of a Molecular Rotor, International Conference on Non-Contact Atomic Force Microscopy, Nottingham, GB, 07-25 to 07-29 ♣

Gehrig Jeffrey C., Penedo Marcos, Parschau Manfred, Schwenk Johannes, Marioni Miguel A., Hudson Eric W., Hug Hans-Josef
The Role of Entropic Forces in the Dynamics of a Molecular Rotor, SPS Annual Meeting, Lugano, 08-23 to 08-25 ♣

Hug Hans J.
Nanoscale characterization of surfaces and materials properties by Scanning Force Microscopies, Surfaces and Thin Films – Analytics in Practice, Dübendorf Empa, 06-29 to 06-30 ♣ ○

Hug Hans J., Bacani Mirko, Marioni Miguel A., Schwenk Johannes
Assessing the Dzyaloshinskii-Moriya interaction by magnetic force microscopy in thin multilayers supporting magnetic skyrmions, JEMS, Glasgow, GB, 08-21 to 08-26 ◆

Hug Hans J., Bacani Mirko, Schwenk Johannes, Xue Zhao, Penedo-Garcia Marcos, Marioni Miguel A.
Magnetic Force Microscopy of Skyrmions ?in thin Multilayers with interfacially-induced ?Dzyaloshinskii-Moriya Interaction, ncAFM, Nottingham, GB, 07-24 to 07-29 ♣

Hug Hans J., Bacani Mirko, Schwenk Johannes, Zhao Xue, Penedo-Garcia Marcos, Marioni Miguel A.
High-resolution and Quantitative Magnetic Force Microscopy – Application to Systems with Interfacial Dzyloshinski-Moriya Interaction, ISPM, Grindelwald, 06-12 to 06-15 ♣ ○

Hug Hans J., Bacani Mirko, Schwenk Johannes, Zhao Xue, Penedo-Garcia Marcos, Marioni Miguel A.
Assessing the Dzyloshinski-Moriya Interaction by Magnetic Force Microscopy in thin Multilayers supporting Skyrmions, EMSA, Turin, IT, 07-12 to 07-15 ♣

Hug Hans J., Gehrig Jeffrey, Penedo Penedo, Parschau Manfred, Schwenk Johannes, Marioni Miguel, Hudson Eric
The Role of Entropic Forces in the Dynamics of a molecular Rotor, Visit & Scientific Discussions at IBM Almaden, IBM Almaden, US, 01-20 ♣ ○

Hug Hans J., Marioni Miguel
Quantiative and High-Resolution Magnetic Force Microscopy, Scanning Force Microscopy – Technical Discussions, Santa Barbara, US, 01-18 ♣ ○

Hug Hans J., Schwenk Johannes, Bacani Mirko, Romer Sara, Guiller Alexandre, Marioni Miguel
Magnetic Force Microscopy of Skyrmions in thin Multilayers with interfacially-induced Dzyloshinski-Moriya Interaction, Intermag 2016, San Diego, US, 01-10 to 01-15 ♣

Hug Hans J., Schwenk Johannes, Bacani Mirko, Romer Sara, Guiller Alexandre, Marioni Miguel
Magnetic Force Microscopy of Skyrmions in thin Multilayers with interfacially-induced Dzyloshinski-Moriya Interaction, 3S, St. Anton am Arlberg, AT, 02-20 to 02-27 ♣

MAIRENA Anaïs
SELF-ASSEMBLY OF NON-PLANAR POLYCYCLIC AROMATIC HYDROCARBONS ON METAL SURFACES, Group meeting of Prof. Gademann (University of Zürich), University of Zürich, 05-10 ♣ ○

MAIRENA Anaïs, Laura Zoppi, Johannes Seibel, Alix F. Tröster, Konstantin Grenader, Andreas Terfort, Karl-Heinz Ernst
Racemate versus conglomerate: Chiral pentahelicene on Cu(111), Doktorandtag CMSZH 2016, AU ZH, 06-08 ◆

MAIRENA Anaïs, Laura Zoppi, Johannes Seibel, Alix F. Tröster, Konstantin Grenader, Manfred Parschau, Andreas Terfort & Karl-Heinz Ernst
HETEROCHIRAL TO HOMOCHIRAL TRANSITION IN PENTAHELICENE 2D CRYSTALLIZATION INDUCED BY 2ND LAYER NUCLEATION, AVS 63rd International Symposium, Nashville, US, 11-05 to 11-11 ♣

Marioni Miguel A., Bacani Mirko, Schwenk Johannes, Penedo Marcos, Zhao Xue, Hug Hans J.
Using MFM to characterize magnetic bubble-like structures in chiral multilayers, International Workshop & School on Spin Transfer, Nancy, FR, 09-19 to 09-22 ♣

Marioni Miguel A., Bacani Mirko, Schwenk Johannes, Romer Sara, Zhao Xue, Guiller Alexandre, Hug Hans Josef
Skyrmions in Ir, Co, Pt multilayers with inhomogeneous Dzyaloshinski-Moriya interaction observed by MFM, Intermag 2016, San Diego, US, 01-10 to 01-15 ♣

Marioni Miguel A., Bacani Mirko, Schwenk Johannes, Zhao Xue, Penedo Marcos, Hug Hans J.
Skyrmion variability in multilayers with Dzyaloshinski-Moriya interaction assessed by MFM, EMSA, Torino, IT, 07-12 to 07-15 ♣

Marioni Miguel A., Bacani Mirko, Schwenk Johannes, Zhao Xue, Penedo Marcos, Hug Hans J.
Sputtered multilayers supporting skyrmions viewed by MFM, JEMS, Glasgow, GB, 08-21 to 08-26 ♣

Marioni Miguel A., Hug Hans Josef
Quantitative and High-Resolution Magnetic Force Microscopy – Application: skyrmions, Visit & Scientific Discussions at Western Digital, San Jose, CA, US, 01-19 ♣ ○

Patscheider Jörg
High Performance Coatings by HiPIMS, CCMX Annual Meeting, Bern, 05-11 ♣ ○

Patscheider Jörg
Sputter deposition and HiPIMS for High Performance Coatings, General Assembly of SwissVacuum (Schweizerische Vakumgesellschaft), Schopfheim, DE, 06-09 ♣ ○

Patscheider Jörg
HiPIMS für Hochleistungsschichten, Coatings Forum, Empa, Dübendorf, 06-20 ♣ ○

Patscheider Jörg
Dünne Hochleistungsschichten mit HiPIMS, Trends in Micro Nano, NTB Buchs SG, 09-01 ♣ ○

Patscheider Jörg
Thin film deposition by Magnetron Sputtering and HiPIMS at EMPA's new Coating Competence Center, i-net Nano Technology Event, Delémont, 09-06 ♣ ○

Patscheider Jörg
Thin film deposition by Magnetron Sputtering and HiPIMS EMPA's new Coating Competence Center, Trends in Micro Nano, Biel-Nidau, 10-25 ♣ ○

Patscheider Jörg
Short Course Program Chair at ICMCTF (International Conference on Metallurgical Coatings and Thin Films), Short Course Program, San Diego, CA (USA), US, 04-25 to 04-29 ■

Patscheider Jörg
Joint Empa-EFDS workshop, Surfaces and Thin Films – Analytics in Practice, Empa, Dübendorf, 06-29 to 06-30 ■

Patscheider Jörg
Session Physical Vapor Deposition I, Plasma Surface Engineering (PSE) 2016, Garmisch-Partenkirchen, DE, 09-12 to 09-16 ▲

Patscheider Jörg
Program Committee, Pacific Rim Symposium on Surfaces, Coatings and Interfaces (PacSurf 2016) , Kohala Coast, HI, US, 12-12 to 12-15 ■

Patscheider Jörg, Böttger P.H.Michael, Fischer Maria, Trant Mathis
Oxynitride coatings – a step forward in hard coatings with tunable properties, Workshop on "Plasma surface interaction for technological applications", Christian-Albrechts-Universität, Kiel, DE, 07-18 to 07-20 ♣ ○

Patscheider Jörg, Thorwarth Kerstin, Jin Subong, Barker Paul M., Gauter Sven
Chopped HiPIMS deposition of metallic titanium films, Plasma Surface Engineering PSE 2016, Garmisch-Partenkirchen, DE, 09-12 to 09-16 ♣

Patscheider Jörg, Thorwarth Kerstin, Jin Subong, Gauter Sven
Titanium films deposited by HiPIMS for medical applications, Pacific Rim Symposium on Surfaces, Coatings and Interfaces; PacSurf 2016, Kohala Coast, HI, US, 12-05 to 12-07 ♣

Penedo Marcos, Gehrig Jeffrey, Parschau Manfred, Schwenk Johannes, Marioni Miguel, Hudson Eric, Hug Hans
The Role of Entropic Forces in the Dynamics of a molecular Rotor, Symposium on Surface Science 2016, St Anton, AT, 02-21 to 02-27 ♣

Penedo Marcos, Hug Hans
Harmonic peak-force tapping AFM, Multifrequency AFM, Madrid, ES, 03-30 to 04-01 ◆

Penedo Marcos, Hug Hans
Off-resonance intermittent contact mode AFM using multiple harmonics, SPS Annual Meeting, Lugano, 08-23 to 08-25 ♣

Rieger Alexandra, Ernst, Karl-Heinz
A standartized method for measuring electrical transport characteristics, SOAG-GSSI, Fribourg, 01-22 ◆

Schwenk Johannes
Quantitative Magnetic Force Microscopy with capacitive tip sample distance control, Annual Meeting of the Swiss Physical Society, Lugano, 08-23 to 08-25 ♣

Schwenk Johannes, Bacani Mirco, Marioni Miguel A., Romer Sara, Zhao Xue, Hug Hans J.
Capacitive distance control for quantitative Magnetic Force Microscopy, 19th International Conference on Non-Contact Atomic Force Microscopy, Notthingham, GB, 07-25 to 07-29 ◆

Schwenk Johannes, Bacani Mirko, Marioni Miguel A., Romer Sara, Zhao Xue, Hug Hans J.
Capacitive tip sample distance control for MFM measurements on particulate media, 6th Multifrequency AFM Conference, Madrid, ES, 03-30 to 04-01 ♣

Srivastava Gitika, Tibor Kudernac, Manfred Parschau, Peter Stacko, Ben L. Feringa, Karl-Heinz Ernst
Single molecular motors driven by inelastic electron Tunneling, EMPA PhD Symposium 2015, EMPA Dübendorf, 2015-12-07 ◆

Srivastava Gitika, Tibor Kudernac, Manfred Parschau, Peter Stacko, Ben L. Feringa, Karl-Heinz Ernst
Single molecular motors driven by inelastic electron Tunneling, Doktorandentag UZH, Schloss Au, 06-08 ◆

Thorwarth Kerstin
Session D1: Surface Coatings and Surface Modifications in Biological Environments, ICMCTF, San Diego, US, 04-25 to 09-30 ▲

Thorwarth Kerstin, Thorwarth Götz, Müller Ulrich, Weisse Bernhard, Hauert Roland1
Sensitivity of interfaces to contamination: DLC coatings on medical alloys, ICMCTF, San Diego, US, 04-25 to 04-29 ♣

Nanoscale Materials Science

Thorwarth Kerstin, Thorwarth Götz, Voisard Cyril, Kraft Markus, Patscheider Jörg
Metallization of polymers for medical applications using HiPIMS, PSE, Garmisch Partenkirchen, DE, 09-12 to 09-16 ♣

Trant Mathis, Fischer Maria, Thorwarth Kerstin, Hug Hans Josef, Patscheider Jörg
Tunable Ion Bombardment in Confocal DC Magnetron Sputtering and Its Influence on Aluminium Nitride Thin Film Growth, 32nd Swiss Working Group for Surface and Interface Science (SAOG) Meeting, Fribourg, 01-22 ◆

Trant Mathis, Fischer Maria, Thorwarth Kerstin, Hug Hans Josef, Patscheider Jörg
Tunable ion flux density and its impact on AlN thin films deposited in a confocal DC Magnetron Sputtering System, 15th International Conference on Plasma Surface Engineering, Garmisch-Partenkirchen, DE, 09-12 to 09-16 ♣

Trant Mathis, M. Fischer, K. Thorwarth, H. J. Hug, J. Patscheider
Tunable Ion Bombardment in Confocal DC Magnetron Sputtering and Its Influence on Aluminium Nitride Thin Film Growth, Empa PhD Symposium, Dübendorf, 11-14 ◆

Trant Mathis, Maria Fischer, Kerstin Thorwarth, Sven Gauter, Hans Josef Hug, Jörg Patscheider
Tunable ion flux density and its impact on AlN thin films deposited in a confocal DC Magnetron Sputtering System, Plasma Surface Engineering (PSE) 2016, Garmisch-Partenkirchen, DE, 09-12 to 09-16 ♣

Wäckerlin Christian
Axial ligation of square-planar transition-metal complexes at surfaces, LightChEC Seminar, Universität Zürich, 05-30 ♣

Zhao Xue, Marioni Miguel, Hug Josef Hans
Frequency modulated capacitive distance control for magnetic force microscopy (MFM), European Magnetic Sensors and Actuators Conference (EMSA), Turin, IT, 07-12 to 07-15 ♣

Zhao Xue, Schwenk Johannes, Bacani Mirko, Romer Sara, Marioni Miguel, Hug Hans Josef
Frequency modulated capacitive distance control magnetic force microscopy, 6th Multifrequency AFM Conference, Madrid, ES, 03-30 to 04-01 ◆

Zhao Xue, Schwenk Johannes, Marioni Miguel, Hug Hans
Reversal mechanisms in a (Co, Pt)n multilayer by strong interfacial exchange coupling to a high coercivity rare earth ferrimagnetic thin film TbFe, Empa PhD Symposium 2016, EMPA, 11-14 ♣

Zhao Xue, Schwenk Johannes, Marioni Miguel, Hug josef Hans
Reversal mechanisms in a (Co, Pt)n multilayer by strong interfacial exchange coupling to a high coercivity rare earth ferrimagnetic film TbFe, SPS Annual Meeting 2016, Lugano, 08-23 to 08-25 ♣

nanotech@surfaces

Borin Barin Gabriela, Fairbrother Andrew, Llinas Juan Pablo, Feng Xinliang, Müllen Klaus, Ruffieux Pascal, Bokor Jeffrey, Fasel Roman
Ultra-narrow graphene nanoribbons for nanoelectronic devices, 2016 E-MRS Fall Meeting, Warsaw, PL, 09-19 to 09-22 ♣

Borin Barin Gabriela, Fairbrother Andrew, Sanchez-Valencia Juan Ramon, Llinás Juan Pablo, Feng Xinliang, Müllen Klaus, Ruffieux Pascal, Paillet Matthieu, Bokor Jeffrey, Fasel Roman
Bottom-up fabrication of graphene nanoribbons: From molecules to devices, NT16- 17th International Conference on the Science and Application of Nanotubes and Low Dimension Materials, Wien, AT, 08-07 to 08-13 ♣

Deniz Okan, Sanchez-Sanchez Carlos, Fasel Roman, Ruffieux Pascal
Intercalation-based decoupling and characterization of bottom-up fabricated graphene nanoribbons, Surface Science and Thin Films Community of Switzerland, SAOG Meeting, Fribourg, 01-22 ◆

Deniz Okan, Sanchez-Sanchez Carlos, Fasel Roman, Ruffieux Pascal
Decoupling of graphene nanoribbons by in-situ intercalation, Molecules on Surface CH, MOLCH Meeting, Bern, 06-13 ♣

Deniz Okan, Sanchez-Sanchez Carlos, Fasel Roman, Ruffieux Pascal
Intercalation based decoupling of bottom-up fabricated graphene nanoribbons, 3rd European Workshop on Epitaxial Graphene and 2D Materials, Bergisch Gladbach, DE, 05-17 to 05-21 ♣

Deniz Okan, Sanchez-Sanchez Carlos, Feng Xinliang, Narita Akimitsu, Müllen Klaus, Kharche Neerav, Meunier Vincent, Fasel Roman, Ruffieux Pascal
Accessing the electronic structure of armchair graphene nanoribbons by in situ intercalation, 13th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures, Frascati, IT, 10-10 to 10-14 ♣

Dienel Thomas
1D and 2D materials characterization using combined STM & nc-AFM, European Conference on Surface Science, Grenoble, FR, 08-29 to 09-02 ♣ ○

Dienel Thomas, Yakutovich Aliaksandr, Hapala Prokop, Jelinek Pawel, Pignedoli Carlo A., Passerone Daniele, Fasel Roman, Gröning Oliver
Structure determination of hexagonal boron nitride nanostructures by simultaneous nc-AFM and tunneling current imaging, 19th International Conference on noncontact Atomic Force Microscopy, Nottingham, GB, 07-25 to 07-29 ♣

Fasel Roman
On-surface synthesis of carbon nanomaterials: From molecules to nanoribbons and nanotubes, Quadruplet Farewell Symposium, University of Fribourg, Chemistry Department, 01-28 ♣ ○

Fasel Roman
Bottom-up fabrication of graphene nanoribbons: From molecules to devices, Seminar at the Department of Applied Physics, Aalto University, Espoo, FI, 04-09 ♣ ○

Fasel Roman
Recent progress in the bottom-up fabrication of graphene nanoribbons: From armchair to zigzag and beyond, Symposium on Surface Science 2016, St. Anton, AT, 02-21 to 02-27 ♣

Fasel Roman
On-surface synthesis of graphene nanoribbons: From armchair to chiral to zigzag edges, On-surface synthesis workshop, San Sebastian, ES, 06-27 to 06-30 ♣ ○

Fasel Roman
Bottom-up assembly of graphene nanoribbons: From molecules to devices, elecmol 16, Paris, FR, 08-22 to 08-28 ♣ ○

Fasel Roman
Edge States in Graphene Nanoribbons, Workshop on Advanced Microscopy and Spectroscopy of Supramolecular and Macromolecular Systems on Surfaces, Hong Kong University of Science and Technology, CN, 12-12 to 12-15 ♣ ○

Gröning Oliver
On-surface synthesis and properties characterization of novel low-dimensional materials, Annual Seminar of the Institute of Materials Science of Seville (ICMS) , Seville, ES, 11-18 ♣ ○

Gröning Oliver
Adsorption and charging properties of phthalocyanines on metal supported monolayer hexagonal boron nitride, 3rd European Workshop on Epitaxial Graphene and 2D Materials, Bergisch Gladbach, DE, 05-17 to 05-21 ♣

Gröning Oliver
On-surface synthesis and properties characterization of novel low-dimensional materials, Trends in Nano Technology 2016 , Fribourg, 09-05 to 09-09 ♣ ○

Passerone Daniele
Computer-aided design of graphene-related materials, Public seminar of the Photonic Department, University of St. Petersburg, St. Petersburg, RU, 04-28 ♣ ○

Passerone Daniele
Computer-aided design of graphene-related materials, nanoseminar, TU Dresden, DE, 06-02 ♣ ○

Passerone Daniele, Pignedoli Carlo Antonio, Shinde Prashant
Modelling on the edge: atomistic insight into the electronic properties of graphene nanoribbons, OSS16 – On surface synthesis, San Sebastian, ES, 06-27 to 06-30 ♣ ○

Pignedoli Carlo Antonio
Synthesis and characterization of Atomically Precise Graphene-Based Nanostructures: A Simulation Point of View, 2-D Materials Workshop, Empa Duebendorf, 03-21 to 03-23 ♣ ○

Pignedoli Carlo Antonio
2-D Materials workshop, Empa Duebendorf, 03-21 to 03-23 ■

Pignedoli Carlo Antonio
Computer-aided design of graphene-related materials, CMD26, Groningen, NL, 09-04 to 09-09 ♣ ○

Ruffieux Pascal
Molecular Lego: Bottom-up fabrication of atomically precise armchair and zigzag graphene nanoribbons, Nano in the Snow 2016, Zinal, 01-27 to 01-29 ♣ ○

Ruffieux Pascal
On-surface synthesis of atomically precise armchair and zigzag graphene nanoribbons, On-surface synthesis, Paris, FR, 05-09 to 05-10 ♣ ○

Ruffieux Pascal
Atomically precise armchair and zigzag graphene nanoribbons, 3rd European Workshop on Epitaxial Graphene and 2D Materials, Bergisch-Gladbach, DE, 05-17 to 05-21 ♣ ○

Ruffieux Pascal, Wang Shiyong
Bottom-up fabrication of zigzag graphene nanoribbons, Workshop on Spins on Surfaces, San Sebastian, ES, 09-05 to 09-09 ♣ ○

Scopece Daniele, Cancellieri Claudia, Beni Alessandra, Schmutz Patrik, Jeurgens Lars, Iannuzzi Marcella, Passerone Daniele
NEXAFS Simulations of Al K edge in Al-O Bulks with All-Electrons Methods, CCMX Annual Meeting, Bern, 05-11 ◆

Scopece Daniele, Cancellieri Claudia, Beni Alessandra, Schmutz Patrik, Jeurgens Lars, Iannuzzi Marcella, Passerone Daniele
Simulation of NEXAFS spectra of aluminum oxide bulks via an all-electron approach, II Multiscale Topical Day @ Empa, Empa Duebendorf, 05-25 ♣

Shinde Prashant, Pignedoli Carlo Antonio, Passerone Daniele
Electronic structure of bottom-up fabricated zigzag graphene nanoribbons, 32nd SAOG Meeting, Fribourg, 01-22 ◆

Shinde Prashant, Pignedoli Carlo Antonio, Passerone Daniele,
Electronic Structure of Realistic Graphene Nanoribbons: A Theoretical Perspective, Electronic Structure of Realistic Graphene Nanoribbons: A Theoretical Perspective, Bern, 06-13 ♣

Shinde Prashant, Pignedoli Carlo Antonio, Passerone Daniele,
DFT study of realistic zigzag graphene nanoribbons, PASC 2016 conference, Lausanne, 06-08 to 06-10 ♣

nanotech@surfaces

Shinde Prashant, Pignedoli Carlo Antonio, Shinde Prashant,
Electronic Structure of Realistic Zigzag Graphene Nanoribbons, OSS16 – On-surface synthesis conference, San Sebastian, ES, 06-27 to 06-30 ♣

Stolz Samuel, Prinz Jan, Yakutovich Aliaksandr, Gröning Oliver, Brune Harald, Widmer Roland
Enantioselective formation of molecular structures on the PdGa:A(m1m1m1)Pd1 surface, TNT 2016 – Trends in NanoTechnology, Fribourg, 09-05 to 09-09 ◆

Stolz Samuel, Widmer Roland, Gröning Oliver, Brune Harald
Asymmetric coupling reactions on the chiral PdGa{111} surfaces, C-MAC Days 2016, Bratislava, SK, 11-21 to 11-23 ♣

Urgel José Ignacio
Novel Routes in the Formation of Large Acene Derivatives by On-surface Thermal Conversion – See more at: http:,, iasprogram.ust.hk, 201612ams, program_test20161025.html#sthash.WNCojnw2.dpuf, Workshop on Advanced Microscopy and Spectroscopy of Supramolecular and Macromolecular Systems on Surfaces, Hong Kong University of Science and Technology, CN, 12-12 to 12-15 ♣

Wang Shiyong
Electronic Structure of Graphene Nanoribbon Heterostructures, Workshop on Advanced Microscopy and Spectroscopy of Supramolecular and Macromolecular Systems on Surfaces, Hong Kong University of Science and Technology, CN, 12-12 to 12-15 ♣

Wang shiyong, Aliaksandr Yakutovich, Thomas, Dienel, Qiang Sun, Wei Xu, Carlo A. Pignedoli, Daniele Passerone, Pascal Ruffieux, Roman Fasel
nc-AFM study of carbon wires and ribbons, The 19th International conference on Non-Contact Atomic Force Microscopy, Nottingham, GB, 07-25 to 2017-07-29 ♣

wang shiyong, Shantanu Mishra, Pascal Ruffieux
Decoupled electronic structure of atomically precise graphene nanoribbons, Spins on surfaces, San Sebastian, ES, 09-04 to 09-07 ♣

Widmer Roland, Rogalev Victor, Gröning Oliver, Dil Hugo, Bisti Federico, Lev Leonid, Schmitt Thorsten, Strocov Vladimir
Fermi states and anisotropy of Brillouin zone scattering in the decagonal Al–Ni–Co quasicrystal, 13th International Conference on Quasicrystals (ICQ13), Kathmandu, NP, 09-18 to 09-23 ♣ ○

Widmer Roland, Rogalev Victor, Gröning Oliver, Dil Hugo, Bisti Federico, Lev Leonid, Schmitt Thorsten, Strocov Vladimir
Fermi states and anisotropy of Brillouin zone scattering in the decagonal Al–Ni–Co quasicrystal, C-MAC Days 2016, Bratislava, SK, 11-21 to 11-23 ♣ ○

Yakutovich Aliaksandr, Keller Corina, Iannuzzi Marcella, Pignedoli Carlo A., Hapala Prokop, Jelinek Pavel, Passerone Daniele,
Comparison of classical and ab initio approaches to functionalized tip AFM simulation, 19th International Conference on Non-Contact Atomic Force Microscopy, Nottingham, GB, 07-25 to 07-29 ♣

Yakutovich Aliaksandr, Shinde Prashant, Pignedoli Carlo A., Tavernelli Ivano, Boua Frederic, Laino Teodoro, Seewald Patrick, Müller Tiziano, Cepellotti Andrea, Kahle Leonid, Mounet Nicolas, Passerone Daniele,
Low-D materials for photovoltaics: high-throughput screening of optical and electronic properties, Marvel Review and Retreat 2016, EPFL, Lausanne, 09-08 to 09-09 ◆

Yakutovich Aliaksandr, Shinde Prashant, Pignedoli Carlo A., Tavernelli Ivano, Boua Frederic, Laino Teodoro, Seewald Patrick, Müller Tiziano, Cepellotti Andrea, Kahle Leonid, Mounet Nicolas, Passerone Daniele,
Low-D materials for photovoltaics: high-throughput screening of optical and electronic properties, Marvel Review and Retreat 2016, EPFL, Lausanne, 09-08 to 09-09 ◆

Yakutovich Aliaksandr,, Seewald Patrick, Müller Tiziano, Kahle Leonid, Pignedoli Carlo A., Passerone Daniele,
CP2K plugin for AiiDA, AiiDA tutorial, EPFL, Lausanne, 06-22 to 2015-06-24 ◆

Thin Films and Photovoltaics

Andres Christian, Haass Stefan, Romanyuk Yaroslav, Tiwari Ayodhya
9.4% efficient CZTSe solar cells from co-sputtered elemental metal precursor with subsequent rapid thermal annealing, E-MRS 2016 SPRING MEETING, Congress Center (Grand Palais) in Lille, FR, 05-02 to 05-06 ◆

Andres Christian, Voney Vera, Haass Stefan, Romanyuk Yaroslav, Tiwari Ayodhya
Development of n-type doped buffers for kesterite solar cells, Empa PhD Students' Symposium 2016, Empa Dübendorf, 11-14 ◆

Andres Christian, Voney Vera, Haass Stefan, Romanyuk Yaroslav, Tiwari Ayodhya
Alternative buffers and partial electrolyte treatments for CZTSe solar cells, 7th European Kesterite Workshop, Leuven, BE, 11-16 to 11-18 ♣

Bissig Bejamin, Guerra-Nunez Carlos, Nishiwaki Shiro, La Mattina Fabio, Pianezzi Fabian, Avancini Enrico, Carron Romain, Reinhard Patrick, Haass Patrick, Lingg Martina, Feurer Thomas, Utke Ivo, Buecheler Stephan, Tiwari Ayodhya N.
Carrier collection lengths approaching CIGS absorber thickness: Al2O3 passivation layers for improved EBIC measurements, Spring Session 2016, European Material Conference, Lille, FR, 05-02 to 05-06 ♣

Bissig Benjamin, Buecheler Stephan, Tiwari Ayodhya
Thin film solar cell characterization by electron beam induced current and time resolved photoluminescence, Advanced Characterization Workshop organized in the frame of the CHEETAH , Freiburg, DE, 01-14 ♣

Bodanrchuk Maryna, Kravchyk Kostiantyn, Walter Marc, Kovalenko Maksym
Novel nanoscale electrode materiales for sodium-ion batteries, 18th International Meeting on Lithium Batteries, Chicago, US, 06-19 to 06-24 ◆

Buecheler Stephan, Avancini Enrico, Carron Romain, Feurer Thomas, Fu Fan, Pisoni Stefano, Nishiwaki Shiro, Tiwari Ayodhya N.
CIGS-based Tandem Solar Cells, 7th International Workshop on CIGS Solar Cell Technology, Munich, DE, 06-23 ♣ ○

Buecheler Stephan, Avancini Enrico, Carron Romain, Feurer Thomas, Fu Fan, Pisoni Stefano, Nishiwaki Shiro, Tiwari Ayodhya N.
All Thin Film Tandem Solar Cells, International Conference on Simulation of Organic Electronics and Photovoltaics 2016, Winterthur, 09-14 to 09-16 ♣ ○

Buecheler Stephan, Bissig Benjamin, Avancini Enrico, Carron Romain, Feurer Thomas, Keller Debora, Fu Fan, Pisoni Stefano, Nishiwaki Shiro, Tiwari Ayodhya N.
Thin film solar cells with efficiencies above 20%, Japanese Swiss Energy Materials Workshop, Dübendorf, 03-07 ♣ ○

Buecheler Stephan, Bissig Benjamin, Avancini Enrico, Carron Romain, Feurer Thomas, Weiss Thomas, Fu Fan, Pisoni Stefano, Nishiwaki Shiro, Tiwari Ayodhya N.
High Efficiency CIGS Solar Cells, Advances in Photovoltaics 2016, Institute of Physics, London, GB, 09-30 ♣ ○

Buecheler Stephan, Bissig Benjamin, Keller Debora, Avancini Enrico, Carron Romain, Feurer Thomas, Nishiwaki Shiro, Tiwari Ayodhya N.
Highly efficient thin film solar cells – How nano-structuring can help to improve the performance further, NanoVision 2015, Erlangen, DE, 2015-11-17 to 2015-11-18 ♣ ○

Buecheler Stephan, Fu Fan, Feurer Thomas, Jäger Timo, Avancini Enrico, Bissig Benjamin, Tiwari Ayodhya N.
Development of Near Infrared Transparent Provskite Solar Cells for Tandem Application with Cu(In,Ga)Se2, NanoVision 2015, Erlangen, DE, 2015-11-17 to 2015-11-18 ◆ ○

Buecheler Stephan, Fu Fan, Feurer Thomas, Jäger Timo, Avancini Enrico, Bissig Benjamin, Yoon Song, Tiwari Ayodhya N.
Semi-transparent Planar Perovskite Solar Cells for Bifacial and Tandem Applications, MRS Fall Meeting 2015, Boston, US, 2015-11-29 to 2015-12-04 ♣

Carron Romain, Avancini Enrico, Bissig Benjamin, Losio Paolo A., Ruhstaller Beat, Steinhauser Jérôme, Buecheler Stephan, Tiwari Ayodhya Nath
Refractive indices of layers of Cu(In,Ga)Se2 solar cells, Symposium V – Thin films chalcogenide photovoltaic materials, Lille, FR, 05-02 to 05-06 ♣

Debora Keller, Buecheler Stephan, Reinhard Patrick, Pianezzi Fabian, Bissig Benjamin, Hage Fredrik, Ramasse Quentin, Erni Rolf, Tiwari Ayodhya N.
Nanoscale electronic properties in CIGS thin film solar cells studied by VEELS, E-MRS Spring Meeting , Lille, FR, 05-01 to 05-06 ♣

Feurer Thomas, Fan Fu, Johannes Löckinger, Shiro Nishiwaki, Stefan Haass, Beniamin Bissig, Antonio Abate, Shaik M. Zakeeruddin, Michael Grätzel, Stephan Buecheler, Ayodhya N. Tiwari
Low band-gap Cu(In,GaS)2 solar cells for all thin film tandem devices with perovskite top cells, E-MRS Spring meeting, Lille, FR, 05-02 to 05-06 ◆

Feurer Thomas, Fu Fan, Bissig Benjamin, Pisoni Stefano, Avancini Enrico, Buecheler Stephan, Tiwari Ayodhya N.
Low bandgap Cu(In,Ga)Se2 for multi junction solar cells with increased efficiency, Empa PhD Symposium, Dübendorf, 11-07 ◆

Fu Fan, Johannes Löckinger, Stefano Pisoni, Enrico Avancini, Benjamin Bissig, Cyrill Meier, Stephan Buecheler, Ayodhya N. Tiwari
Improved Performance and Suppressed J-V Hysteresis by In-situ Formation of Planar PbI2 Layer at Perovskite Heterointerface, International Conference on Hybrid and Organic Photovoltaics, Swansea, GB, 06-28 to 07-01 ♣

Fu Fan, Thomas Feuer, Stefano Pisoni, Stephan Buecheler, Ayodhya N. Tiwari
Highly Efficient Inverted Semi-transparent Planar Perovskite Solar cells for 2- and 4-Terminal Perovskite-Chalcogenide All-thin-film Tandem Solar Cells, 2nd International Conference on Perovskite Solar Cells and Optoelectronics, Genova, IT, 09-26 to 09-28 ◆

Fuchs Peter, Steinhauser Jérôme, Avancini Enrico, Romanyuk Yaroslav, Tiwari Ayodhya
Conductivity transients in chemical bath deposited ZnO thin films as a function of UV illumination wavelength, EMRS Spring 2016, Lille, FR, 05-02 to 05-06 ♣

Fuchs Peter, Steinhauser Jérôme, Hariskos Dimitrios, Wiltraud Wischmann, Romanyuk Yaroslav, Tiwari Ayodhya
Electrical conductivity transients in chemical bath deposited ZnO thin films as a function of UV illumination wavelength, International symposium on transparent conductive materials 2016 , Crete, GR, 10-09 to 10-13 ♣

Guntlin Christoph, Zünd Tanja, Wörle Michael, Kravchyk Kostiantyn, Bodnarchuk Maryna, Kovalenko Maksym
Synthesis of Nanocrystalline Iron trifluoride from Molecular Precursors and its Li- and Na-ion Storage Properties, EMRS Fall 2016, Warsaw, PL, 09-19 to 09-22 ♣

Haass Stefan, Matthias Diethelm, Christian Andres, Yaroslav E. Romanyuk, Ayodhya N. Tiwari
Potassium treatment strategies for solution-processed kesterite solar cells, EMRS Spring Meeting 2016, Lille, FR, 05-02 to 05-06 ♣

Lingg Martina, Spescha Annina, Perrenoud Julian, Bücheler Stephan, Tiwari Ayodhya N.
Improving CdTe solar cell absorbers by CdSe alloying, E-MRS 2016 Spring Meeting, Lille, FR, 05-02 to 05-06 ♣

Löckinger Johannes, Bissig Benjamin, Keller Debora, Avancini Enrico, Nishiwaki Shiro, Buecheler Stephan, Romanyuk Yaroslav E., Tiwari Ayodhya N.
ALD-deposited metal oxides for surface passivation in CIGS solar cells, ALD 2016 conference, Dublin, IE, 07-23 to 07-28 ◆

Löckinger Johannes, Bissig Benjamin, Keller Debora, AvanciniEnrico, Nishiwaki Shiro, Buecheler Stephan, Romanyuk Yaroslav E., Tiwari Ayodhya N.
Metal oxide layers for passivation concepts in Cu(In,Ga)Se2 thin film solar cells by atomic layer deposition, PhD Students' Symposium 2016, Empa Dübendorf, 11-14 ◆

Löckinger Johannes, Fuchs Peter, Nishiwaki Shiro, Buecheler Stephan, Romanyuk Yaroslav E., Tiwari Ayodhya N.
New sulphide precursors for Zn(O,S) buffer layers in Cu(In,Ga)Se2 solar cells for faster reaction kinetics, EMRS conference, Lille, FR, 05-01 to 05-06 ◆

Nishiwaki Shiro, Thomas Feurer, Benjamin Bissig, Enrico Avancini, Romain Carron, Stephan Buecheler, Ayodhya N. Tiwari
Precise Se-flux control for Cu(In,Ga)Se2 deposition at low substrate temperature by multi stage co-evaporation, E-MRS Spring meeting, Lille, FR, 05-02 to 05-06 ◆

Pisoni Stefano, Fan Fu, Thomas Feurer, Benjamin Bissig, Makha Mohammed, Shiro Nishiwaki, Stephan Buecheler, Ayodhya N. Tiwari,
Flexible Perovskite, Cu(In,Ga)Se2 Tandem Thin Film Solar Cell, EUPVSEC2016, Münich, DE, 06-20 to 06-24 ♣

Pisoni Stefano, Fan Fu, Thomas Feurer, Makha Mohammed, Benjamin Bissig, Shiro Nishiwaki, Stephan Buecheler, Ayodhya N. Tiwari,
NIR-transparent perovskite solar cell for flexible all thin film tandem devices, PSCO2016, Genoa, IT, 09-26 to 09-28 ◆

Rawlence Michael, Filippin A. Nicolas, Rupp J. L. M., Buecheler Stephan
The Effect of Lithium and Gallium Content on Phase Evolution in Fast Lithium Ion Conducting Garnet Li(7-3x)La3Zr2O12 Thin Films, Bunsen-Kolloquium: Solid-State Batteries II, House of Logistics and Mobility (HOLM), Frankfurt, DE, 11-23 to 11-25 ◆

Romanyuk Yaroslav
ZnO-based contacts and buffer layers by chemical bath deposition, Workshop “Printable window and contact layers”, Vienna, AT, 06-06 ♣ ○

Romanyuk Yaroslav
Nano for CIGS Thin Film Solar Cells, Swiss Nanoconvention 2016, Basel, 06-30 ♣ ○

Romanyuk Yaroslav, Fuchs Peter, Hagendorfer Harald, Guo Huizhang, Burgert Ingo, Tiwari Ayodhya
Solution-grown ZnO thin films for optoelectronics and beyond, E-MRS spring meeting 2016, Lille, FR, 05-02 to 05-06 ♣ ○

Romanyuk Yaroslav, Jäger Timo, Fu Fan, Fuchs Peter, Hagendorfer Harald, Steinhauser Jerome, Buecheler Stephan, Tiwari Ayodhya
Transparent conductive oxides by soft deposition methods, SimOEP 2016 conference, Winterthur, 09-15 to 09-16 ♣ ○

Stefan Haass, Raquel Caballero, Christian Andres, Yaroslav E. Romanyuk and Ayodhya N. Tiwari
Alkali doping in solution processed kesterite solar cells, 7th Kesterite Workshop , Leuven, BE, 11-16 to 11-18 ♣

Steinhauser Jerome, Fuchs Peter, Hariskos Dimitrios, Wischmann Wiltraud, Bremaud David, Romanyuk Yaroslav, Tiwari Ayodhya
Chemical bath deposited zinc oxide as transparent conductive contact for CIGS cells, EU PVSEC 2016, Munich, DE, 06-20 to 06-24 ♣

Tiwari Ayodha N.
Opportunities with innovative thin film solar cells for cost effective and novel applications, 7th World Renewable Energy Technology Congress and Expo-2016, Delhi, IN, 08-21 to 08-23 ♣ ○

Tiwari Ayodhya N.
Role of CIGS in future PV – The CIGS white paper, 7th International Workshop on CIGS Solar Cell Technology (IW-CIGSTech 7), Munich, DE, 06-23 ♣ ○

Tiwari Ayodhya N.
Innovative thin film photovoltaics: opportunities and challenges, European Power Network Tagung, Basel, 10-27 ♣ ○

Tiwari Ayodhya N.
Innovation Highway: Breakthrough Milestones & Key Developments in Chalcopyrite, European Material Society 2016 Spring Meeting, Lille, FR, 05-02 to 05-06 ♣ ○

Tiwari Ayodhya N.
Advances and Opportunities in CIGS Thin Film Photovoltaics R&D, 32nd European Photovolatic Solar Energy Conference and Exhibition , Munich, DE, 06-21 to 06-24 ♣ ○

Thin Films and Photovoltaics

Tiwari Ayodhya N.
New Paradigm with Highly Efficient Thin Film Photovoltaics: Opportunities and Challenges, International Conference on Hybrid and Organic Photovoltaics (HOPV16), Swansea, GB, 06-28 to 07-01 ♣ ○

Tiwari Ayodhya N.
Industrialization of academic lab's innovative research on thin film solar cells, Re-Industrialisation of the EU 2016 Conference, Bratislava, SK, 10-26 to 10-28 ♣ ○

Tiwari Ayodhya N.
PV Thin Film Technologies- Perspectives and Potentials, 14th Austrian Photovoltaic Congress, Villach, AT, 11-28 to 11-30 ♣ ○

Walter Marc, Doswald Simon, Kovalenko Maksym V.
Inexpensively Synthesized Tin and Antimony-based Nanocrystals as Electrode Material for Lithium-ion and Sodium-ion Batteries, 2016 MRS Spring Meeting, Phoenix, US, 03-28 to 04-01 ◆

Walter Marc, Kravchyk Kostiantyn V., Ibáñez Maria, Kovalenko Maksym V.
A Sodium, Magnesium-ion Hybrid Battery based on a Pyrite (FeS2) Cathode, 1st International Symposium on Magnesium Batteries , Blaubeuren, DE, 07-21 to 07-22 ♣

Walter Marc, Zünd Tanja, Kravchyk Kostiantyn V., Ibáñez Maria, Kovalenko Maksym V.
Pyrite (FeS2) Nanocrystals as Electrode Material for Sodium-ion and Sodium, Magnesium-ion Hybrid Batteries, 2016 MRS Spring Meeting, Phoenix, US, 03-28 to 04-01 ♣

Civil and Mechanical Engineering

Meier Urs
The Prediction of Long-Term Creep Data of Fibrous Polymer Composites Based on Short Term Experiments, Materials Chemistry 2016, Valencia, ES, 03-31 to 04-01 ♣ ○

Meier Urs
The Life Times of Polymer Composites in Construction, 8th International Conference on Times of Polymers and Composites of the American Institute of Physics, Ischia, IT, 06-20 to 06-23 ♣ ○

Meier Urs
Carbon Fiber Reinforced Composites proved to be very successful in construction during a quarter of a century, ECCM17 – 17th European Conference on Composite Materials, Munich, DE, 06-26 to 06-30 ♣ ○

Meier Urs
Two Examples of Post-Tensioned CFRP Cables in Bridge Construction: One in Rehabilitation, One in New Construction, 8th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016), Hong Kong, CN, 12-14 to 12-16 ♣ ○

Applied Wood Materials

Antonini Carlo
The long journey from superhydrophobicity to icephobicity, DIPSI Workshop, Bergamo, IT, 05-19 to 05-20 ♣

Arnold Martin
Test precision of the EN 927-6 artificial weathering test for wood coatings, European Technical Coatings Congress (ETCC), Birmingham, GB, 05-25 to 05-26 ♣ ○

Arnold Martin
Towards improved SLP of wood coatings: Assessment and quantification of performance effects, 10th International Woodcoatings Congress , Amsterdam, NL, 10-25 to 10-26 ♣ ○

Bachtiar Erik, Niemz Peter
Material characterization of walnut (Juglans regia L.) and cherry (Prunus avium L.) Wood, Analysis and Characterisation of Woode Cultural Heritage by Scientific Engineering Methods, Halle, DE, 04-28 to 04-29 ♣

Bellanger Hervé, Casdorff Kirstin, Muff Livius, Burgert Ingo, Michen Benjamin
Layer-by-Layer assembly for wood surface modification and protection, 6th International Colloids Conference, Berlin, DE, 06-19 to 06-22 ♣

Bellanger Hervé, Casdorff Kirstin, Muff Livius, Burgert Ingo, Michen Benjamin
Assessment of Layer-by-Layer build-up on wood for surface modification and protection, NICE, 3rd International Conference on Bioinspired and Biobased Chemistry and Materials., Nice, FR, 10-16 to 10-19 ♣

Burgert Ingo
Bio-inspired wood materials, ETH – Chalmers 4th Bilateral Workshop, Zürich, 09-19 to 09-21 ♣ ○

Burgert Ingo, Merk Vivian, Chanana Munish
High performance wood materials – progress, challenges and visions, World Conference on Timber Engineering, WCTE 2016, Vienna, AT, 08-22 to 08-25 ♣ ○

Cabane Etienne, Keplinger Tobias, Vidiella del Blanco Marta, Wang Yaru, Burgert Ingo
Functional Lignocellulosic Materials: Engineering Smart Bio-Hybrids from a Natural Anisotropic Scaffold, IXth ECNP International Conference on Nanostructured Polymers and Nanocomposites, Rome, IT, 09-19 to 09-21 ♣

Cabane Etienne, Keplinger Tobias, Vidiella del Blanco Marta, Wang Yaru, Burgert Ingo
Functional Lignocellulosic Materials: Engineering Smart Bio-Hybrids from a Natural Anisotropic Scaffold, NICE, 3rd International Conference on Bioinspired and Biobased Chemistry and Materials., Nice, FR, 10-16 to 10-19 ♣

Casdorff Kirstin, Segmehl Jana, Schweiger Sebastian
Raman microscopy Workshop, Raman Seminar, Zürich, 01-03 to 01-05 ▲

Chanana Munish
Nano-functionalized Biomaterials and Bio-functionalized Nanomaterials, NanoInBio 1st International Conference, Guadeloupe, FR, 05-31 to 06-06 ♣ ○

De Freitas Siqueira Gilberto
Cellulose nanofibers, 2016 International Conference on Nanotechnology for Renewable Materials, Grenoble, FR, 06-13 to 06-16 ♣

Goldhahn Christian, Chanana Munish, Burgert Ingo
inorganic-Functionalized Wood Materials: Going Beyond the Intrinsic Properties, NICE, 3rd International Conference on Bioinspired and Biobased Chemistry and Materials., Nice, FR, 10-16 to 10-19 ♣

Goldhahn Christian, Merk Vivian, Guo Huizhang, Burgert Ingo, Chanana, Munish
Functionalization of Wood with Metal and Metal Oxide nanoparticles – Introducing Novel properties to Wood Materials, NICE, 3rd International Conference on Bioinspired and Biobased Chemistry and Materials, Nice, FR, 10-16 to 10-19 ◆

Guo Huizhang, Burgert Ingo
Bio-inspired wood surface modification, Euro Bio-inspired 2016, Potsdam, DE, 02-22 to 02-25 ♣

Guo Huizhang, Michen Benjamin, Burgert Ingo
Bio-inspired surface modification of wood: mimicking lotus leave and pitcher plant, 6th International Colloids Conference, Berlin, DE, 06-19 to 06-22 ◆

Guo Huizhang, Michen Benjamin, Burgert Ingo
An almost transparent inorganic coating for protection of wooden facades against weathering, World Conference on Timber Engineering, WCTE 2016, Vienna, AT, 08-22 to 08-25 ♣

Guo Huizhang, Michen Benjamin, Burgert Ingo
Strategies to extend the durability of wooden façades, Advanced Building Skins, Bern, 10-10 to 10-11 ♣

Keplinger Tobias, Cabane Etienne, Burgert Ingo
Functionalization Approaches for Secondary Wood Cell Walls to Develop New Functional Wood-Polymer Hybrid Materials, Bio-inspired Materials 2016, Berlin, DE, 02-22 to 02-25 ◆

Kläusler Oliver, Walter Sonderegger, Munish Chanana, Philipp Hass
Vorträge zur Forschung an der Professur Wood Materials Science und der Holzforschung an der Empa sowie im Speziellen zum Verdichtungsprojekt der Gebert Rüf Stiftung (in Planung), Schule im Labor: Ebenholzproblematik und möglicher Ersatz im Instrumentenbau, Zürich, 10-28 ▲

Künniger Tina
Mikrofibrillierte Zellulose in Holzbeschichtungen, S-WIN Statusseminar, Winterthur, 06-13 ♣ ○

Künniger Tina
Nanofibrillierte Zellulose als funktionale Komponente in Holzbeschichtungen für den Aussenbereich, Nano Coating Days, Horn, 06-16 to 06-17 ♣ ○

Merk Vivian, Berg John, Krywka Chistina, Burgert Ingo
Oriented growth of barite in hierarchical wood structures, Bio-inspired Materials Conference, Potsdam, DE, 02-22 to 02-25 ◆

Michen Beni, Bellanger Hervé, Guo Huizhang, Burgert Ingo
Novel Routes for Wood Surface Modification, PRA's 10th International Woodcoatings Congress 2016, Amsterdam, NL, 10-25 to 10-26 ♣

Michen Benjamin, Bellanger Hervé, Guo Huizhang, Burgert Ingo
Funktionalisierung von Holzoberflächen, "Statusseminar Holzoberflächen und Modifikationen für innovative Fassaden", Winterthur, 06-13 ♣ ○

Muff Livius, Bellanger Hervé, Studart André R., Burgert Ingo, Michen Benjamin
Investigating the surface charge of wood by streaming current and streaming potential measurements, MaP Graduate Symposium 2016, Zürich, 06-09 ◆

Orsolini Paola, Antonini Carlo, Geiger Thomas, Caseri Walter, Zimmermann Tanja
Functional nanofibrillated cellulose dense and porous substrate, COST ACTION FP1105, Budapest, HU, 09-21 to 09-22 ♣

Orsolini Paola, Antonini Carlo, Geiger Thomas, Caseri Walter, Zimmermann Tanja
Superhydrophobic Nanofibrillated cellulose substrates, NICE Conference 2016, Nice, FR, 10-15 to 10-21 ♣

Özparpucu Merve, Rüggeberg Markus, Gierlinger N., Cesarino I., Vanholme R., Boerjan W., Burgert Ingo
Micromechanical and Nanostructural Characterization of Lignin-Modified Poplar, XIV Cell Wall Meeting, Crete, GR, 06-12 to 06-17 ◆

Özparpucu Merve, Rüggeberg Markus, Gierlinger N., Cesarino I., Vanholme R., Boerjan W., Burgert Ingo
Micromechanical and Nanostructural Characterization of Lignin-Modified Poplar, Exploring Lignocellulosic Biomass Meeting, Reims, FR, 06-24 to 06-25 ◆

Schwarze Francis
Biologische Kontrolle von Pilzen, Baumpflegetag LVG Essen, Essen, DE, 11-08 ♣ ○

Segmehl Jana, Berg John, Keplinger Tobias, Laromaine Anna, Roig Anna, Burgert Ingo
Hybrid materials based on hierarchical cellulose scaffolds, COST HINT School Stockholm: Functional hybrid materials: structure elucidation from molecular to macro Level, Stockholm, SE, 05-25 to 05-27 ◆

Segmehl Jana, Keplinger Tobias, Berg John K, Lauria Alessandro, Burgert Ingo
Wood derived hierarchical cellulose scaffolds for functional hybrid materials, Gordon Reserach Conference: Bioinspired Materials , Les Diablerets, 06-05 to 06-10 ◆

Applied Wood Materials

Segmehl Jana, Keplinger Tobias, Berg John, Laromaine Anna, Roig Anna, Burgert Ingo
Hierarchical structured lignocellulosic scaffolds for functional hybrid materials, NICE, 3rd International Conference on Bioinspired and Biobased Chemistry and Materials., Nice, FR, 10-16 to 10-19 ☘

Segmehl Jana, Krasnobaev Artem, Keplinger Tobias, Burgert Ingo
Wood derived hierarchical cellulose scaffolds for multifunctional materials, Euro-Bioinspired materials 2016, Potsdam, DE, 02-22 to 02-25 ◆

Vidiella del Blanco Marta Esther, Etienne Cabane, Ingo Burgert
Wood membrane for oil-water Separation, MaP Graduate Symposium, Zürich, 06-09 ◆

Vidiella del Blanco Marta Esther, Etienne Cabane, Ingo Burgert
Tuning wood surface wettability by grafting-from ATRP, NICE Conference 2016, Nice, FR, 10-16 to 10-19 ☘

Vidiella del Blanco Marta Esther, Etienne Cabane, Ingo Burgert
Modifying the surface properties of wood using ATRP grafting polymerization, AIChe Annual Conference 2016, San Francisco, US, 11-13 to 11-18 ☘

Vitas Selin, Cabane Etienne, Burgert Ingo
Esterification of Wood for Innovative Filter Technology, SCS Fall Meeting 2016, Zurich, 09-15 ◆

Vitas Selin, Cabane Etienne, Burgert Ingo
Esterification of Wood for Innovative Filter Technology, 4th ETH-Chalmers Bilateral Workshop, Zürich, 09-19 to 09-21 ◆

Vitas Selin, Etienne Cabane, Ingo Burgert
Esterification of Wood for Heavy Metal Scavenging, ETH-EMPA-BoKu Colloquium 2016, Zurich, 11-28 to 11-29 ■

Wang Yaru, Burgert Ingo, Cabane Etienne
Growth of Zinc Oxide Rods on Wood Cross-sections to Fabricate Surfaces with Anisotropic Wettability, ETH-Chalmers 4th Bilateral Workshop, Zürich, 09-19 to 09-21 ◆

Wang Yaru, Etienne Cabane, Ingo Burgert
Growth of Zinc Oxide Microrods on Wood Cross-sections to Fabricate Surfaces with Different Wettability Patterns and Its Application, ETH-EMPA-BoKu Colloquium 2016, Zurich, 11-28 to 11-29 ■

Wang Yaru, Ingo Burgert, Etienne Cabane
Growth of Zinc Oxide Rods on Wood Cross-sections to Fabricate Surfaces with Anisotropic Wettability, 14th Swiss Snow Symposium 2016 (SSS'16), Zürich, 09-15 ◆

Weishaupt Ramon
Highly sensitive nanocellulose-based fluorescent heavy metal biosensor, Swiss Society for Biomaterials + Regenerative Medicine Meeting, Zürich, 06-09 to 06-10 ☘ ○

Zimmermann Tanja
Nanocellulose based functional materials, 3rd International Conference on Bio-based Polymers and Composites, Szeged, HU, 08-28 to 09-01 ☘ ○

Zimmermann Tanja
Functional Cellulose Materials @ Empa, 4th ETH-Chalmers Bilateral Workshop, Zürich, 09-19 to 09-20 ☘ ○

Zimmermann Tanja
Functional nanocellulose based materials @ Empa in Switzerland, Nanocellulose Summit 2016, Tokyo, JP, 12-09 to 12-10 ☘ ○

Zimmermann Tanja, Tingaut Philippe, Geiger Thomas
Functional materials from cellulose nanofibers, 2016 International Conference on Nanotechnology for Renewable Materials, Grenoble, FR, 06-13 to 06-16 ☘ ○

Building Energy Materials and Components

Brunner Samuel
the 2002 Questions -are VIP good enough for Bulilding Application, (a Talk to Students at NUAA), Nanjing, CN, 04-11 ☘ ○

Brunner Samuel
Superinsulation – a Swiss view (or European view) --Vacuum Insulation Panels (VIP) aging studies over a decade and durability questions & Aerogel used on buildings, Mini-symposium on save-energy techniques for houses at Osaka Center of Josho Gakuen (an Event of the Japanes IEA EBC Annex 65 mirror group) , Osaka, JP, 04-28 ☘ ○

Brunner Samuel
Hochleistungsdämmung im Baukontext, VIP und Aerogel, (an Evening talk at TU Vienna) , Vienna, AT, 06-08 ☘ ○

Huber Lukas, >10
Nitrogen-doped carbons for adsorption cooling, IGC Symposium, Munich, DE, 05-14 ◆

Huber Lukas, Ruch, Hauert, Matam, Sauckle, Yoon, Zhang, Koebel
Water sorption behavior of physically and chemically activated monolithic nitrogen doped carbon, Advanced Energy Materials, Surrey, GB, 09-14 ☘

Huber Lukas, Ruch, Hauert, Matam, Sauckle, Yoon, Zhang, Koebel
Water sorption behavior of physically and chemically activated monolithic nitrogen doped carbon, SCS Fall Meeting, Zürich, 09-15 ◆

Iswar Subramaniam, Griffa, Toro, Kaufmann, Koebel, Lattuada
Effect of aging on silica aerogel properties and the structure of glass wool-aerogel composites by X-ray Tomography, SCS Fall Meeting, Zürich, 09-15 ◆

Iswar Subramaniam, Griffa, Toro, Kaufmann, Koebel, Lattuada
Effect of aging on silica aerogel properties and the structure of glass wool-aerogel composites by X-ray Tomography, Empa PhD student symposium, Dübendorf, 11-14 ☘

Building Energy Materials and Components

Iswar Subramaniam, Griffa, Toro, Kaufmann, Koebel, Lattuada
Effect of aging on silica aerogel properties and the structure of glass wool-aerogel composites by X-ray Tomography, International Seminar on Aerogels, Nice, FR, 06-22 to 06-23 ♣

Koebel Matthias
Sol-Gel based materials for a sustainable future, Seminar at University of Rome Tor Vergata, Rome, IT, 04-04 ♣ ○

Koebel Matthias
Sol-Gel based materials for a sustainable future, International Seminar: "From fundamental research to commercialization of scientific ideas", Moscow, RU, 05-26 ♣ ○

Koebel Matthias
3D-Nanomaterialien in der angewandten Energieforschung: Aerogelbasierte Materialien für Energieeffizienz, Umwandlung und Speicherung, Nano Coating Days, Bad Horn, 06-16 to 06-17 ♣ ○

Koebel Matthias
Aerogel superinsulation – quo vadis, International Seminar on Aerogels, Nice, FR, 09-22 to 09-23 ♣

Malfait Wim
Highly energy-efficient windows, WSED, Wels, AT, 02-24 ♣ ○

Malfait Wim, >10
Density of MgSiO3 and SiO2 glass to core-mantel boundary pressure, EMPG, Zürich, 08-06 ♣

Malfait Wim, Koebel, Rentsch, Zhao, Verel
Solid-state NMR spectroscopy of silica and silica-biopolymer hybrid aerogels, SCS Fall Meeting, Zürich, 09-15 ◆

Stojanovic Ana, Comesana, Malfait, Koebel
Hydrophobization of silica aerogels by mixed alkoxysilanes, SCS Fall Meeting, Zürich, 09-15 ◆

Stojanovic Ana, Comesana, Malfait, Koebel
Hydrophobization of silica aerogels by mixed alkoxysilanes, International Seminar on Aerogels, Nice, FR, 09-22 to 09-23 ◆

Wernery Jannis
Materialstruktur, Eigenschaften und neue Entwicklungen im Bereich HLWD, HLWD in der Baupraxis, Aarau, 10-27 ♣ ○

Wernery Jannis
Aerogel Hochleistungsdämmstoffe: Systeme & Anwendungen in der Schweiz, Brenet Statusseminar, Zürich, 09-08 to 09-09 ♣

Zhao Shanyu, Malfait, Gilani, Jiang, Koebel
Exotic Applications of silica aerogels, International Seminar on Aerogels, Nice, FR, 09-22 to 09-23 ♣

Concrete, Construction Chemistry

Bernard Ellina
"Effect of magnesium on the stability of C-S-H: 1st place Student Presentation Awards, Mechanisms and modelling of waste, cement interactions, 4th international Workshop, Murten, 05-22 to 05-25 ♣

Ghourchian Sadegh, Wyrzykowski Mateusz, Lura Pietro
Hygro-Chemo-Thermo-Mechanical modeling of self-weight consolidation of cementitious materials, ACerS 2016: Advances in Cement-Based Materials: Characterization, Processing, Modeling and Sensing, Northwestern University, Evanston, IL, US, 07-10 to 07-13 ♣

Griffa Michele, Yang Fei, Kaufmann Rolf, Lura Pietro
X-ray tomographic microscopy of porous (building) materials: new possibilities by multi-contrast and multi-scale capabilities, Interdisciplinary Symposium on 3D Microscopy of the Swiss Society for Optics and Microscopy, Les Diablerets, 10-18 to 10-21 ♣

Kaufmann Josef
Effect of high temperatures on the stability of Ettringite, GdCH 2nd int. Conference München, Munich, DE, 10-11 ♣

Kaufmann Josef
Bikomponenten-Faser als Betonarmierung, Quadratplattentest, Baukader Schweiz , Empa Dübendorf, 10-13 ♣

Kaufmann Josef
Bikomponenten-Faser als Betonarmierung, Wyss-Bauingenieure, Empa Dübendorf, 10-21 ♣

Kaufmann Josef
Ettringitwärmespeicher, Jubiläumsveranstaltung Effenergie AG, Empa Dübendorf, 11-30 ♣

Leemann Andreas
Alkali-Aggregat-Reaktion in der Schweiz, Baustoff-Technik-Tag, Ostfildern, DE, 03-01 ♣ ○

Leemann Andreas
The influence of lithium on the structure of the ASR-product, ICAAR , Sao Paolo, BR, 07-04 to 07-07 ♣

Lothenbach Barbara
Thermodynamic modelling of cements, Seminarreihe Materialforschung & Physik, Universität Salzburg, AT, 04-06 ♣ ○

Lothenbach Barbara
Thermodynamic modelling of cements, Seminarreihe Materialforschung & Physik, Universität Salzburg, Salzburg, AT, 04-06 ♣ ○

Lothenbach Barbara
Zementhydratation, Workshop des Verbundprojekts „Geochemische Radionuklidrückhaltung an Zementalterationsphasen" (GRaZ), Universität Heidelberg, DE, 10-25 to 10-26 ♣ ○

Concrete, Construction Chemistry

Lothenbach Barbara
Geochemische Radionuklidrückhaltung an Zementalterationsphasen, Zementhydratation. Workshop des Verbundprojekts(GRaZ), Universität Heidelberg, DE, 10-25 to 10-26 ♣ ○

Lothenbach Barbara, Wieland E., Mäder Urs, Jenni A., Bernard Ellina
Mechanisms and modelling of waste, cement interactions, 4th international Workshop, Murten, Switzerland, Murten, 05-22 to 05-25 ■

Lura Pietro
Autogenous deformation in high-performance concrete: measurements, modelling and mitigation, 3rd International RILEM Conference on Microstructure Related Durability of Cementitious Composites (Microdurability2016) Conference, Nanjing, China, 26.10.2016, Nanjing, CN, 10-24 to 10-26 ♣ ○

Lura Pietro
Deformation, cracking and moisture distribution in cementitious materials at early ages, Visit to South China University of Technology, Guangzhou, CN, 10-28 to 10-29 ♣ ○

Lura Pietro, Wyrzykowski Mateusz, Griffa Michele, Yang Fei
3D imaging of moisture distribution and transport in early-age cementitious materials, Symposium on Imaging of Construction Materials and Geomaterials, Champs-sur-Marne, FR, 07-07 to 07-08 ♣ ○

Nedyalkova Latina
Uptake of S, Se and I in AFm-phases: 3rd place Student Poster Awards, Mechanisms and modelling of waste, cement interactions, 4th international Workshop, Murten, 05-22 to 05-25 ◆

Winnefeld Frank
Studying hydration of cementitious materials: the importance of sample preparation, COST Action TU1404 Meeting, Zagreb, HR, 03-14 ♣ ○

Winnefeld Frank
RILEM TC DTA Workshop on Alkaline-activated Materials for Construction, Delft, NL, 04-14 ■

Winnefeld Frank
Carbonation of calcium sulfoaluminate cement mortars, 2nd International Conference on the Chemistry of Construction Materials, Munich, DE, 10-10 to 10-12 ♣

Winnefeld Frank, Alahrache Salaheddine, Lothenbach Barbara, Accardo Grazia, Champenois Jean-Baptiste, Hesselbarth Frank
The dissolution of synthetic alumosilicate glasses in alkaline solution, RILEM TC DTA Workshop on Alkaline-activated Materials for Construction, Delft, NL, 04-14 ♣ ○

Winnefeld Frank, Götz-Neunhoeffer Friedlinde, Peter Ulrike, Stephan Dietmar, Zurbriggen Roger, Schröter Norbert, Plank Johann, Ideker Jason, Kong Xiang-Ming, van Balen Koen, Geiker Mette
2nd International Conference on the Chemistry of Construction Materials, München, DE, 10-10 to 10-12 ■

Wyrzykowski Mateusz
The conference "Materials, Systems and Structures in Civil Engineering – MSSCE 2016", segment: Service Life of Cement-Based Materials and Structures, 21-24 August 2016, Lyngby, Denmark, DTU, Lyngby, Denmark, DK, 08-21 to 08-24 ▲

Wyrzykowski Mateusz, Benboudjema Farid, Knoppik-Wrobel Agnieszka
WG2 Benchmark stage 1 RESULTS OF THE MICRO- AND MESOSCOPIC MODELLING, 4th workshop of the COST TU1404 Action at the Conference "Materials, Systems and Structures in Civil Engineering – MSSCE 2016", segment: Service Life of Cement-Based Materials and Structures, 21, DTU, Lyngby, DK, 08-21 to 08-24 ♣

Yang Fei, Griffa Michele, Bonnin Anne, Mokso Rajmund, Di Bella Carmelo, Münch Beat, Kaufmann Rolf, Lura Pietro
Visualization of water drying in porous materials without contrast agents by X-ray phase contrast imaging, International Symposium on BioMedical Applications of X-Ray Phase Contrast Imaging (IMXP 2016), Garmisch-Parten Kirchen, DE, 01-21 to 01-22 ◆

Yang Fei, Griffa Michele, Hipp Alexander, Derluyn Hannelore, Moonen Peter, Kaufmann Rolf, Boone Matthieu, Beckmann Felix, Lura Pietro
Advancing the visualization of pure water transport in porous materials by fast, Talbot interferometry-based multi-contrast X-ray micro-tomography, Developments in X-ray Tomography X, San Diego, US, 08-28 to 09-01 ♣

Yang Fei, Prade Friedrich, Griffa Michele, Kaufmann Rolf, Herzen Julia, Pfeiffer Franz, Lura Pietro
Dark-field imaging of water migration in layered cementitious materials, Internationa Conference on X-ray Microscopy (XRM2016), Oxford, GB, 08-15 to 08-19 ◆

Mechanical Integrity of Energy Systems

Bergamini Andrea, Schmied Jascha, Flores Parra Edgar A., Ermanni Paolo
Integration of Multi-field resonant elements in stiff structures, Gordon Research Conference 2016: Multifunctional Materials & Structures, Ventura, CA, US, 01-31 to 02-05 ♣

Domaschke Sebastian, Manuel Zündel, Edoardo Mazza, Alexander E. Ehret
The role of mechanical fibre interactions in electrospun networks, CCMX Summer School – Multiscale Modelling of Materials, EPFL Lausanne, 08-29 to 08-31 ◆

Ehret Alexander, Alberto Stracuzzi
Modelling the time-dependent behaviour of thin collagen membranes: bi-phasic theory vs. volumetric viscoelasticity, Joint Annual Meeting of DMV and GAMM, Braunschweig, DE, 03-07 to 03-11 ♣

Ehret Alexander, Alberto Stracuzzi,, Kevin Bircher, Edoardo Mazza
Analysing the fracture behaviour of soft biological membranes, 24th International Congress of Theoretical and Applied Mechanics – ICTAM 2016, Montreal, CA, 08-21 to 08-26 ♣

Mechanical Integrity of Energy Systems

Ehret Alexander, Manuel Zündel, Kevin Bircher, Edoardo Mazza
Measures of segment stretch in continuum models of fibre networks, Joint Annual Meeting of DMV and GAMM, Braunschweig, DE, 03-07 to 03-11 ♣

Ehret Alexander, Manuel Zündel,, Edoardo Mazza
Mechanical Considerations on Traction Force Microscopy, 24th International Congress of Theoretical and Applied Mechanics – ICTAM 2016, Montreal, CA, 08-21 to 08-26 ♣

Holdsworth Stuart
Creep-fatigue crack growth in power plant steels, CF7 Conference on Creep, Fatigue and Creep-Fatigue Interaction, Kalpakkam, IN, 01-19 to 06-22 ♣ ○

Holdsworth Stuart
Creep ductility of IGMOV rotor steel, IOM3 Workshop on low rupture ductility of materials, Longhborough, GB, 06-02 to 06-03 ♣ ○

Holdsworth Stuart
High-R fatigue crack growth threshold stress intensity factors at elevated temperatures, Structural Integrity Conf. (SICE-2016), Bangalore, IN, 06-04 to 06-06 ♣ ○

Holdsworth Stuart
Candidate material solutions for the design of nuclear waste storage canisters, IGD-TP, 1st Exchange Forum, Cordoba, ES, 10-25 to 10-26 ♣ ○

Holdsworth Stuart, E. Hosseini
Cracking dueto combined HCF and TMF loading in cast iron, BAM TMF Workshop, Berlin, DE, 04-28 to 04-29 ♣

Holdsworth Stuart, E. Vacckieri, A. Costa,, E. Poggio,, P. Villari
Creep-fatigue life assessment for GT blades and vaneo development for safelife procedure assessment and validation through service-like TMF rests and verification by field feedback, ASME Turbo Expo 2016 , Seoul, KR, 06-13 to 06-17 ♣

Holdsworth Stuart, E. Vocchieri, E. Poggio, A. Villari
Service-like TMF costs for the validation and assessment of a creep-fatigue lifetime procedure development for GT blades and vaneo, BAM TMF Workshop, Berlin, DE, 04-28 to 04-29 ♣

Holdsworth Stuart, Schillai Kilian, Mazza Edoardo
Enhanced fretting fatigue of conductors for high voltage overhead lines, CCMX Annual Meeting, Bern, 05-11 ◆

Holdsworth Stuart, V. Kalyanasundaram
The influence of prior plasticity on the creep resistance of two elevated temperature power plant steels, Structural Integryty Conference (SICE 2016), Bangalore, IN, 06-13 to 06-16 ♣

Holdsworth Stuart, V. Kalyanasundaram
Prediction of forward creep behaviour from stress relaxation data for a 10% Cr steel, CF7 Conference on Creep, Fatigue and Creep-Fatigue Interaction, Kalpakkam, INA, 01-19 to 06-22 ♣

Mazza Edoardo, Ehret Alexander, Bircher Kevin
The intriguing deformation behavior of soft biological membranes, ICTAM 2016, Montreal, CA, 08-21 to 09-28 ♣ ○

Mazza Edoardo, Ehret Alexander, Bircher Kevin, Vita Marina
Experimental characterization of soft biological tissues, ICEM17, Rhodos, GR, 07-03 to 07-07 ♣

Mechanical Systems Engineering

Affolter Christian, Barbezat Michel, Piskoty Gabor, Neuner Oswald, Terrasi Giovanni P.
Failure of a sag water pipe after backing with a composite relining, ICEFA-7, Leipzig, DE, 07-03 to 07-06 ♣

Baschnagel Fabio, Terrasi Giovanni P., Gao Jing, Meier Urs
Fatigue behavior of laminated carbon fibre reinforced polymer straps for bridge suspenders, ECCM17, Munich, DE, 06-26 to 06-30 ♣

Brunner Andreas J.
Delamination in Kunststoff-Faserverbund-Polymerwerkstoffen: Ein Blick auf kleinere Skalen, 40. Sitzung Fachgruppe Strukturintegrität SVMT, RMS Foundation, Bettlach, 04-06 ♣

Brunner Andreas J.
Correlation between acoustic emission signals and delaminations in carbon fiber-reinforced polymer-matrix composites: A new look at mode I fracture test data, 32nd European Conference on Acoustic Emission Testing, Prague, CZ, 09-07 to 09-09 ♣

Brunner Andreas J.
Physical Mechanisms in Fracture and Fatigue Fracture of Polymer Composites, Delft Workshop on Physics of Fatigue Damage Grotwth, TU Delft, Delft, NL, 10-10 to 10-11 ♣ ○

Brunner Andreas J., Mujtaba Ahmad, Stelzer Steffen, Jones Rhys
Modified Hartmann-Schijve fitting of Mode I delamination fatigue data and the resulting variation in threshold values Gthr, 21st European Conference on Fracture, ECF-21, Catania, IT, 06-20 to 06-24 ♣

Frey Marion, Haba Dietmar, Brunner Andreas J.
Assessing Epoxy-Composite Modification Developments by Comparison with Unmodified Reference Materials: Some Thoughts on Relevance, 1st International Conference on Materials Design and Applications, Porto, PT, 06-30 to 07-01 ♣

Haba Dietmar, Hausberger Andreas, Brunner Andreas J.
Flaky and fullerene-like WS2 nanoparticles as tribologic and toughening additives for epoxy, 1st International Conference on Materials Design and Applications, Porto, PT, 06-30 to 07-01 ♣

Mechanical Systems Engineering

Haba Dietmar, Teichert Christian, Brunner Andreas J.
AFM investigations on WS2-epoxy fracture surfaces: Toughening and microductility, PolyMerTec 2016, Merseburg, DE, 06-15 to 06-17 ♣

Koller Roland
Systematische Beurteilung technischer Schadenfälle, DGM-Seminar, Ermatingen, 03-01 ♣ ○

Koller Roland
Systematische Beurteilung technischer Schadenfälle, DGM-Seminar, Ermatingen, 10-11 ♣ ○

Kovacs Gabor
From research to production, EuroEAP 2016 Conference, Helsingor, DK, 07-15 ♣ ○

Mujtaba Ahmad, Stelzer Steffen, Brunner Andreas J., Jones Rhys
Thoughts on the scatter seen in cyclic mode I fatigue delamination growth in DCB Tests, 2nd International Conference on Mechanics of Composites, Porto, PT, 07-11 to 07-14 ♣

Piskoty Gabor, Affolter Christian, Weisse Bernhard, Sauder Martin
Failure analysis of a fatal ropeway accident, ICEFA-7, Leipzig, DE, 07-03 to 07-06 ♣

Terrasi Giovanni P.
CFRP prestressed high performance concrete, Adv. Seminar in Materials, Techniques and Design for the Structural Strengthening, University of Minho, Guimaraes, PT, 06-13 to 06-24 ♣

Multiscale Studies in Building Physics

Allegrini Jonas, Jan Carmeliet
Simulations of local heat islands in Zürich with coupled CFD and building energy models, 4th International Conference on Countermeasures to Urban Heat Island, Singapore, SG, 05-30 to 06-01 ♣

Chen Mingyang, Karol Kulasinski, Dominique Derome, Jan Carmeliet
Multi-scale modeling of adsorption induced deformation of micro-porous materials, EMI & PMC 2016, Nashville, US, 05-22 to 05-25 ♣

Chen Mingyang, Robert A. Guyer, Dominique Derome, Jan Carmeliet
A MULTI-SCALE STUDY ON ADSORPTION INDUCED DEFORMATION OF HYBRID POROUS MATERIALS, 24th International Congress of Theoretical and Applied Mechanics (ICTAM), Montreal, CA, 08-21 to 08-26 ♣

Defraeye Thijs
Drying of cellular biomaterials insights at the air-material interface by multiscale modelling and experiments, Gordon Research conference: Flow and transpory in permeable media, Girona, ES, 07-31 to 08-05 ♣ ○

Defraeye Thijs
Convective drying of fruit tissue – Impact of moisture barrier layers, 20th International Drying Symposium, Gifu, JP, 08-08 to 08-10 ♣

Derome Dominique, Hendrickx Roel, Desmarais Guylaine, Mannes D, Koester A, Ferreira E
Moisture transport and sorption in oil-painted linen canvas documented by neutron imaging, MSR, Boston, US, 11-27 to 12-02 ◆

Derome Dominique, Kulasinski Karol, Zhang Chi, Chen Mingyang, Carmeliet Jan
Water sorption in wood cell S2 layer: molecular dynamics insights, Interpore, Cincinnati, US, 05-09 to 05-12 ♣

Derome Dominique, Kulasinski Karol, Zhang Chi, Chen Mingyang, Hendrickx Roel, Carmeliet Jan
Water sorption and swelling in wood and painted linen canvas: from molecular dynamics insights to art conservation, Gordon Research conference: Flow and transpory in permeable media, Girona, ES, 07-31 to 08-05 ♣ ○

Derome Dominique, Patera Alessandra, Parada Marcelo, Carmeliet Jan
Where tridimensional visualization is key in understanding fluid, porous material interactions, 3D Microscopy, Les Diablerets, 10-18 to 10-21 ♣ ○

Derome Dominique, Piva Eleonora, Mannes D, Desmarais Guylaine, Schofiel Elenor
Moisture behaviour of PEG-treated archaeological oak: the role of a hydrogel on a degraded cellular structure documented with neutron imaging, MRS, Boston, US, 11-27 to 12-02 ♣

Dorostkar Omid, Paul Johnson, Robert Guyer, Chris Marone, Carmeliet Jan
Numerical modeling of stick-slip in wet granular media; Insights toward earthquake triggering, 1st CFDEM®project user meeting & workshop, Linz, AT, 03-14 to 03-15 ♣

Dorostkar Omid, Paul Johnson, Robert Guyer, Chris Marone, Carmeliet Jan
"Numerical modeling of stick-slip in fluid saturated granular fault gouge"", 24th International Congress of Theoretical and Applied Mechanics, Montreal, CA, 08-21 to 08-26 ♣

Kubilay Aytac, Derome Derome, Carmeliet Jan
Influences of wind-driven rain and radiation on urban microclimate, CESBP Central European Symposium on Building Physics, Dresden, DE, 09-14 to 09-16 ♣

Kubilay Aytac, Derome Dominique, Carmeliet Jan
Urban microclimate model using a coupled approach for CFD, radiation, wind-driven rain and transport in building materials, 4th International Conference on Countermeasures to Urban Heat Island, Singapore, SG, 05-30 to 06-01 ♣

Lemrich Laure, Carmeliet Jan, Johnson Paul, Guyer Robert
Investigation of the resonant frequencies of granular media and of its nonlinear response to acoustic waves, CFDEM-LIGGGHTS WORKSHOP, Linz, AT, 03-14 to 03-16 ♣

Lemrich Laure, Carmeliet Jan, Johnson Paul, Guyer Robert
Investigation of the resonant frequencies of granular media and of its nonlinear response to acoustic waves, DEM7, Dalian, CN, 08-01 to 08-04 ♣

Multiscale Studies in Building Physics

Manickathan Lento
Student presentation – Impact of Evapotranspiration of Vegetation on Urban Microclimate, Urban Physics School 2016, Kouklia, CY, 05-08 to 05-13 ♣

Manickathan Lento, Allegrini Jonas, Defraeye Thijs, Derome Dominique, Carmeliet Jan
Stereoscopic Particle Image Velocimetry of the flow around vegetation, Topical day: Imaging and Image Analysis VIII, Dübendorf, 04-06 ♣

Manickathan Lento, Defraeye Thijs, Allegrini Jonas, Derome Dominique, Carmeliet Jan
Aerodynamic characterisation of vegetation models using wind tunnel, IC2UHI: 4th International conference on Countermeasures to Urban Heat Island, Singapore, SG, 05-30 to 06-01 ♣

Prawiranto Kevin, Thijs Defraeye, Dominique Derome, Jan Carmeliet
Quantitative analysis of changes in apple fruit microstructure during dehydration by X-ray tomography, Topical day: Imaging and Image Analysis VIII, Dübendorf, 04-06 ♣

Prawiranto Kevin, Thijs Defraeye, Dominique Derome, Jan Carmeliet
Combined experimental and modeling approach towards better predictions of fruit tissue dehydration, The 8th Multiscale Materials Modeling conference, Dijon, FR, 10-10 to 10-14 ♣

Zhang Chi, Karol Kulasinski, Dominique Derome, Jan Carmeliet
HYGROMECHANICAL BEHAVIOR OF HEMICELLULOSE AND S2 CELL WALL LAYER OF WOOD, 24th International Congress of Theoretical and Applied Mechanics, Montreal, CA, 08-21 to 08-26 ◆

Zhou Xiaohai, Derome Dominique, Carmeliet Jan
Hygrothermal simulation and evaluation of frost risk of masonry walls subjected to inside insulation retrofitting, ASHRAE and IBPSA-USA SimBuild 2016:Building Performance Modeling Conference, Salt Lake City, Utah, US, 08-10 to 08-12 ♣

Zhou Xiaohai, Derome Dominique, Carmeliet Jan
Selecting moisture reference year for hygrothermal simulations, CESBP 2016 Central European Symposium on Building Physics, Dresden, DE, 09-14 to 09-16 ♣

Road Engineering, Sealing Components

Bueno Moises
Practical Experiences with DIC in asphalt technology, Workshop IV: Recent progress in Digital Image Correlation : towards integrated identification ? 8th Rilem International Conference on Mechanisms of Cracking and Debonding in Pavements, Nantes, FR, 06-09 ♣ ○

Bueno Moises, Andrés Josep, Treuholz Andreas, Arraigada Martin, Partl Manfred N.
Digital Image Correlation to Monitor Cracking and Induction Healing of Asphalt Roads, 8th RILEM International Conference on Mechanisms of Cracking and Debonding in Pavements (MCD2016), Nantes, FR, 11-07 to 11-09 ◆

Bueno Moises, Simmler Hans
The use of induction heating for installation of bituminous roofing membranes, Waterproof membranes 2016.10th international conference focusing on technical and market developments for waterproof membranes, in construction and civil engineering applications, Cologne, DE, 11-07 to 11-09 ♣

Partl Manfred
Characterization and Detection of Debonding Phenomena in Asphalt Pavements and on Concrete Bridge Decks, 8th RILEM International Conference on Mechanisms of Cracking and Debonding in Pavements, Nantes, FR, 2010-06-07 to 06-09 ♣ ○

Raab Christiane
Empa and the Laboratory Road Engineering, Sealing Components, Seminar for Prof. C. Raab, Empa, Switzerland, Waterloo University, Waterloo, Canada, CA, 10-03 ♣ ○

Raab Christiane
Abteilung Strassenbau, Abdichtungen, Fachvorführung, Empa, 10-21 ♣ ○

Raab Christiane, Ingrid Camargo, Manfred Partl
Ageing behaviour of energy reduced pavements, 8th Conference on Maintenance an Rehabilitation of Pavements, Singapore, SG, 07-27 to 07-29 ♣ ○

Raab Christiane, Martin Arraigada, Manfred N. Partl, Federico Perrotta and Gabriele Tebaldi
Influence of SAMI on the performance of reinforcement grids, 8 th Rilem Conference on Mechanism of Cracking and Debonding MCD , Nantes, FR, 06-07 to 06-09 ♣ ○

Raab Christiane, Martin Arraigada, Manfred Partl
Full-Scale Pavement Evaluation for Improving Asphalt Performance using MLS10, TRB Annual Meeting, Washington USA, ISAP Day, Washington, US, 01-10 to 11-16 ♣ ○

Raab Christiane, Martin Arraigada, Manfred Partl
Effect of Reinforced Asphalt Pavements on Reflective Crack Propagation and Interlayer Bonding Performance, 8th Rilem Conference on Mechanism of Cracking and Debonding MCD, Nantes, FR, 06-07 to 11-09 ♣ ○

Structural Engineering

Aljabar, Zhao N.J., X.L., Al-Mahaidi R., Ghafoori Elyas, Motavalli Masoud, Powers N.
Experimental Investigation on CFRP Strengthened Steel Plates with Inclined Cracks, IABMAS2016, 8th International Conference on Bridge Maintenance, Safety and Management, Foz Do Iguacu, BR, 06-26 to 06-30 ♣

Czaderski Christoph, Leinenbach Christian, Michels Julien, Graf M., Kawalla R
Development of rolling technology for an iron-based shape memory alloy, MEFORM 2016 „Production and further processing of flat products" und die Veröffentlichung erfolgt im Material Science Forum, TU Bergakademie Freiberg, Freiberg, DE, 03-16 to 03-18 ♣

Ehrhart Thomas, Fink Gerhard, Steiger René, Frangi Andrea
Strength grading of European beech lamellas for the production of GLT & CLT. 49-5-1, INTER International Network on Timber Engineering Research Meeting, Graz, AT, 08-16 to 08-19 ♣

Ehrhart Thomas, Fink Gerhard, Steiger René, Frangi Andrea
Experimental investigation of tensile strength and stiffness indicators regarding European beech timber, WCTE 2016, World Conference on Timber Engineering, Wien, AT, 08-22 to 08-25 ♣

Feltrin Glauco, Popovic Nemanja, Jalsan Kash-Erdene, Wojtera M.
Strain Cycles Monitoring of Metallic Railway Bridges using a Wireless Sensor Network, Paper 166, Railways 2016, The Third International Conference on Railway Technology: Research, Development and Maintenance , Cagliari, Sardinia,, IT, 04-05 to 04-08 ♣

Gallego Juan Manuel, Czaderski Christoph
Short- and long-term behavior of bridge deck slabes strengthened in transverse direction with EB CFRP strips, Cost Action TU2017, Next Generation design guidlines for composites in Construction, Lodz, PL, 04-05 ♣ ○

Gallego Juan Manuel, Czaderski Christoph
Fatigue behavior at elevated temperature of RC slabes strengthened with EB CFRP strips, Cost Action TU2017 Next generation design guidlines for composites in Construction, Prague, CZ, 11-02 to 11-04 ♣

Gallego Juan Manuel, Czaderski Christoph, Michels Julien
Effect of Temperature on the Bond strength and long-term Behavior of EB CFRP Strips on Concrete in Bridge Construction, 7th International Conference on Advanced Composite Materials in Bridges and Structures, Vancouver, CA, 08-22 to 08-24 ♣

Ghafoori Elyas, Motavalli Masoud
Mode-I Fatigue Crack Arrest in Metallic Girders using Pre-stressed un-bonded CFRP Plates, CICE2016, the 8th International Conference of Fibre-Reinforced Polymer (CFRP) Composites in Civil Engineering, Hong Hong, HK, 12-14 to 12-16 ♣ ○

Ghafoori Elyas, Motavalli Masoud, Herwig Andrin, Nussbaumer Alain, Prinz G.S., Fontana Mario
Fatigue strengthening of riveted girders in a historic railway metallic bridge in Switzerland using pre-stressed un-bonded CFRP laminates, IABMAS2016, 8th International Conference on Bridge Maintenance, Safety and Management, Foz do Iguacu, BR, 06-26 to 06-30 ♣

Ghafoori Elyas, Motavalli Masoud, Nussbaumer Alain, Zaho X.L., Herwig Andrin, Fontana Mario, Prinz G.S.
A strengthening theory to prevent fatigue crack initiation in old metallic bridges, IABMAS2016, 8th International Conference on Bridge Maintenance, Safety and Management, Foz do Iguacu, BR, 06-26 to 06-30 ♣

Harmanci Yunus Emre, Michels Julien, Chatzi Eleni
Residual restistance of non-mechanical prestressed CFRP anchorages subjected to environmental conditions, 7th International Conference on Advanced Composite Materials in Bridges and Structures, Vancouver, CA, 08-24 to 08-26 ♣

Hosseini Ardalan, Ghafoori Elyas, Motavalli Masoud, Nussbaumer Alain, Zhao X.L.
Stress Analysis of unbonded and bonded prestressed CFRP-strengthened steel plates, CICE2016, the 8th International Conference of Fibre-Reinforced Polymer (CFRP) Composites in Civil Engineering, Hong Hong, HK, 12-14 to 12-16 ♣

Jockwer Robert, Steiger René
Performance of self-tapping screws and threaded steel rods in shear reinforcement of glulam beams, WCTE 2016, World Conference on Timber Engineering, Vienna, AT, 08-22 to 08-25 ♣

Kobel Peter, Frangi Andrea, Steiger René
Timber Trusses made of European Beech LVL, WCTE 2016, World Conference on Timber Engineering, Vienna, AT, 08-22 to 08-25 ♣

Meier Urs, Brönnimann Urs, Anderegg Peter, Terrasi Giovanni P., Motavalli Masoud, Czaderski Christoph
Carbon Fiber Reinforced Composites proved to be very successful in construction during a quarter of a century, ECCM17 – 17th European Conference on Composite Materials, München, DE, 06-26 to 06-30 ♣

Sanal Irem, Hosseini Ardalan, Özyurt N.
An Alternative to Conventional Measurement Techniques for Evaluating Crack Propagations and Crack Width Openings, 12th International Congress on Advances in Civil Engineering, Bogazici, TR, 09-21 to 09-23 ♣

Sanal Irem, Özyurt N., Hosseini Ardalan
Monitoring Fresh State Behavior of Fiber Reinforced Cementitious Composites (FRCCs): A Non-Destructive, Non-Intrusive and Full Field Image Based Technique, 12th International Congress on Advances in Civil Engineering, Bogazici, TR, 09-21 to 09-23 ♣

Shahverdi Moslem, Czaderski Christoph, Annen Philipp, Motavalli Masoud
Concrete structures strengthening by iron-based memory alloys: an experimental demonstration, 19 Congress of IABSE Stockholm 2016, Challenges in Design and Construction of an Innovative and Sustainable Built Environment, Stockhom, SE, 09-21 to 09-23 ♣

Shahverdi Moslem, Czaderski Christoph, Michels Julien, Motavalli Masoud
Iron-based shape memory alloys reinforcement for strengthening of concrete structures, fib 2016 conference, Cape Town, ZA, 11-21 to 11-23 ♣

Shahverdi Moslem, Vassilopoulos Anastasios P., Keller Thomas
Mixed-Mode I, II fracture behavior of asymmetric composite joints, 21st European Conference on Fracture, ECF21, Procedia Structural Integrity 2 (2016), pp 1186-1893, Catania, IT, 06-20 to 06-24 ♣

Steiger René, Feltrin Glauco, Sadeghi Marzaleh Abdola, Nerbano Stella
Ambient and forced vibration testing on a light-frame timber building – Conclusion regarding design of lateral load resisting system, 49-15-1, INTER International Network on Timber Engineering Research Meeting, Graz, AT, 08-16 to 08-19 ♣

Structural Engineering

Steiger René, Feltrin Glauco, Weber Felix, Nerbano Stella, Motavalli Masoud
On-site dynamic testing of a light-frame Timber Building, WCTE 2016, World Conference on Timber Engineering, Vienna, AT, 08-22 to 08-25 ♣

Weber Benedikt, Dauti Dorjan, Dal Pont S.
COMSOL Implementation of a Porous Media Model for Simulating Pressure Development in Heated Concrete, COMSOL Conference 2016, Munich, DE, 10-12 to 10-14 ♣

Weber Benedikt, Feltrin Glauco
Schwingungstilger – Theoretische Grundlagen und praktische Anwedung, 19. Symposium Bauwerksdynamik und Erschütterungsmessungen Ziegler Consultants , Dübendorf, 06-03 ♣ ○

Urban Energy Systems

Baldini Luca
Dynamic Energy Weighting Factors to Promote the Integration of Renewables into Buildings, Sustainable Built Environment regional conference, ETH-Zurich, 06-15 to 06-17 ♣

Bollinger L. Andrew, R. Evins
A multi-agent Q-learning technique for optimizing technology deployment in distributed multi-energy systems, International Workshop of the European Group for Intelligent Computing in Engineering, Jagiellonian University, PL, 06-29 to 07-01 ♣

Bollinger L. Andrew, R. Evins
Multi-agent reinforcement learning for optimizing technology deployment in distributed multi-energy systems, EG-ICE 2016, Krakow, PL, 06-29 to 07-01 ♣

Bollinger L. Andrew, V. Dorer
A simulation platform to facilitate the design of distributed energy systems for buildings and districts, Status Seminar, Brenet, Zürich, 09-08 to 09-09 ♣

Dorer Viktor
Dezentrale Energiesysteme für Areale und Quartiere, 2. Fachkongress Energie + Bauen St. Gallen, St. Gallen, 05-27 ♣

Dorer Viktor
Energieeffizienz Infrastruktur -Forschungsergebnisse und Beispiele SCCER FEEB&D, energie-cluster.ch, Kurs Energieeffizienz-Management im Unternehmen, Spreitenbach, 06-15 ♣

Dorer Viktor, L. Andrew Bollinger, K. Orehounig
Modelling, design and assessment of decentralised energy systems for sites and quarters, Status Seminar, Brenet, Zürich, 09-08 to 09-09 ♣

Fumey Benjamin, R: Weber, R. Gantenbein, X. Daguenet-Frick, L. Baldini
Absorption based seasonal thermal storage with sodium hydroxide, Progress and Outlook, Status Seminar, Brenet, Zürich, 09-08 to 09-09 ♣

Hohmann Marc, R. Evins, J. Lygeros
Applying optimal dispatch algorithms in large multi-carrier energy networks, IEEE Conference on Decision and Control, Las Vegas, US, 12-12 to 12-14 ♣

Hohmann Marc, R. Evins, J. Lygeros
Game theory mechanism design for multi-carrier energy networks, IEEE Conference on Decision and Control, Las Vegas, US, 12-12 to 12-14 ♣

Mavromatidis Georgios
Energy storage as a means to reduce the impacts of uncertainty on the optimal urban energy system design, Status Seminar, Brenet, Zürich, 09-08 to 09-09 ♣

Mavromatidis Georgios, K. Orehounig, J. Carmeliet
Uncertainty and sensitivity analysis for the optimal design of urban distributed energy systems, Sustainable Built Environment regional conference, ETH-Zurich, 06-13 to 06-17 ♣

Morvaj Boran, R. Evins, J. Carmeliet
Impact of electrical storage and grid upgrade on the optimal design and operation of a microgrid, IEEE Power & Energy Society General Meeting, Boston, US, 06-17 to 06-21 ♣

Prasanna Ashreeta, N. Vetterli, V. Dorer, M. Sulzer
Modelling the Suurstoffi district based on monitored data to analyse future scenarios for energy self-sufficiency, Status Seminar, Brenet, Zürich, 09-08 to 09-09 ♣

Prasanna Ashreeta, V. Dorer
Modelling, design and evaluation of decentralized energy systems for districts and neighbourhoods, 2nd International Conference on Smart Energy Systems and 4th Generation District Heating, Aalborg, DK, 09-27 to 09-28 ♣

Waibel Christoph, R. Evins, J. Carmeliet
Holistic optimization of urban morphology and district energy systems, Sustainable Built Environment regional conference, ETH-Zurich, 06-13 to 06-17 ♣

Waibel Christoph, R. Evins, J. Carmeliet
Using Interpolation to Generate Hourly Annual Solar Potential Profiles for Complex Geometries, Building Simulation & Optimisation, Newcastle, GB, 09-12 to 09-14 ♣

Wang Danhong, J. Landolt, K. Orehounig, J. Carmeliet
Dynamic urban energy demand modellin to address building retrofitting alternatives in Switzerland, Status Seminar, Brenet, Zürich, 09-08 to 09-09 ♣

Urban Energy Systems

Wang Danhong, K. Orehounig, J. Carmeliet
Dynamic building energy demand modelling at urban scale for the case of Switzerland, 12th REHVA world congress CLIMA 2016, Aalborg, DK, 05-22 to 05-25 ♣

Wu Raphael, G. Mavromatidis, K. Orehounig
Reliability Optimisation of a District Multi-Energy System, Status Seminar, Brenet, Zürich, 09-08 to 09-09 ♣

Wu Raphael, G. Mavromatidis, K. Orehounig, J. Carmeliet
Optimal energy system transformation of a neighbourhood, Sustainable Built Environment regional conference, ETH-Zurich, 06-13 to 06-17 ♣

Materials Meet Life

Krug Harald
Is the current Status of Research on Nanotoxicology useful to achieve "Green Nanotechnology"?, S3C Cluster Going Green, Davos, 02-28 to 03-04 ♣ ○

Krug Harald
Anwendungen von Edelmetallnanopartikeln und deren mögliche Folgen für Umwelt und Gesundheit, Edelmetallforum, Freising, DE, 03-14 to 03-15 ♣ ○

Krug Harald
Green Toxicology meets Nanotoxicology: The Process of Sustainable Nanomaterial Development and Use, 8. Int. Nanotox Conference, Boston, US, 05-31 to 06-04 ♣ ○

Krug Harald
Lessons learned aus der Nanosicherheitsforschung – Innovationen mit Nanomaterialien sicher gestalten, Nano Coating Days, Bad Horn, 06-16 to 06-17 ♣ ○

Krug Harald
«Green Toxicology» The Future of Sustainable Substance- and Material Development, EUROTOX2016, Seville, ES, 09-04 to 09-08 ♣ ○

Krug Harald
EUROTOX2016, Seville, ES, 09-04 to 09-08 ▲

Krug Harald
The Current Status of Research on Nanotoxicology: Validity and Reliability of Data and Study Design, OECD Workshop, Paris, FR, 09-12 to 09-14 ♣ ○

Krug Harald
Occupational exposure limits to nanoTitania: Is rethinking on the basis of weak studies justified?, ISSTD 2016, Paris, FR, 11-14 to 11-16 ♣ ○

Krug Harald
What Can We Learn from the Nanotoxicology Publications?, NanoThailand2016, Khao Yai, TH, 11-27 to 11-30 ♣ ○

Krug Harald
NanoThailand2016, Khao Yai, TH, 11-27 to 11-30 ▲

Krug Harald
Carriers for Toxicologists and other young Scientists, GBM Studiengruppe für Biochemische Pharmakologie und Toxikologie, Reisensburg, DE, 12-02 to 12-03 ♣ ○

Advanced Fibers

Amberg Martin, Hanselmann Barbara, Hegemann Dirk
Moglichkeiter der Plasma-Beschichtung, Workshop Forschungsinitiative Subitex , Empa St.Gallen, 04-25 ♣

Blanchard N.E., Heuberger Manfred, Hegemann Dirk
Subsurface structuring as a new means to control protein adsorption, Biointerfaces, Zürich, 08-22 to 08-24 ◆

Fernández Ronco María Pilar, Hufenus Rudolf, Heuberger Manfred
Sub- and Supercritical CO2 assisted melt spinning of biopolymers, 32nd International Conference of the Polymer Processing Society, Lyon, FR, 07-25 to 07-29 ◆

Gaan Sabyasachi
Mode of action of phosphorus flame retardants, Strategies to study fire behaviours and fire retardant mechanisms, COST MP1105 Training School, Barcelona, ES, 02-01 to 02-03 ♣ ○

Gaan Sabyasachi
Mode of action of phosphorus flame retardants, Strategies to study fire behaviours and fire retardant mechanisms, COST MP1105 Training School, Barcelona, ES, 02-01 to 02-03 ♣ ○

Gaan Sabyasachi
Tailored Dopo based Flame Retardant Additives for Thermoplastics, 27th Conference on Recent Advances in Flame Retardancy of Polymeric Materials, Stanford, CT, US, 05-22 to 11-25 ♣ ○

Gaan Sabyasachi
Synthesis, Application and Toxicity of new Phosphorus based flame retardants, AMI Fire Resistance in Plastics Cologne, Germany, Cologne, DE, 12-06 to 11-08 ♣ ○

Gaan Sabyasachi
Flame Retardant Thermoplastic Fibers from Phosphorus Additives, Innovations in Flame Retardancy of Textiles and Related Materials' COST Action MP1105 Final Conference,The 90th Textile Institute World Conference, Institute of Natural Fibers and Medicinal Plant, Poznan, PL, 2017-04-27 to 04-28 ♣

Gaan Sabyasachi, Salmeia Khalifah, Hirsch Cordula
Synthesis, Application, Flame retardant behavior and Toxicity of Bis-Organophosphorus Compounds, FIRE AND POLYMERS VII, AMERICAN CHEMICAL SOCIETY NATIONAL MEETING , Philadelphia, US, 08-22 to 08-24 ♣

Gradzik Boguslawa, Fernández-Ronco María Pilar, Hufebus Rudolf, El Fray Miroslawa
WPLYW SKLADU SEGMENTOWEGO W MULTIBLOKOWYM KOPOLIESTRZE NA WYBRANE WLASCIWOSCI MIESZANIN Z POLIHYDROKSYMASLANEM (PHB) – Influence of segmental composition of multiblock copolyester on selected pr, Pomerania Plast 2016, Szczecin, PL, 06-07 to 06-10 ♣

Hegemann Dirk
Gradienten in ultradünnen Schichten ermöglichen neue funktionale Eigenschaften, Winterthurer Oberflächentag – Funktionale Dünnschichten, Winterthur, 06-09 ♣ ○

Hegemann Dirk
Advanced Plasma Polymer Deposition Processes – Progress and Perspectives, Gaseous Electronics Meeting XIX, Geelong, AU, 02-15 to 02-18 ♣ ○

Hegemann Dirk
Plasma Etching and Plasma Polymer Deposition – by (mainly air-based) Atmospheric Pressure Plasmas, 25th ak-adp Workshop European Competences in Using Atmospheric Pressure Plasma for Surface Engineering, Erfurt, DE, 03-09 to 03-10 ♣ ○

Hegemann Dirk
PlasmaShape – final Meeting and Workshop, St.Gallen, 04-11 to 04-13 ■

Hegemann Dirk
Vertical Chemical Gradient Films Deposited by Plasma Polymerization, 4th IAP Workshop (IAP2016), Nancy, FR, 06-08 to 06-09 ♣ ○

Hegemann Dirk
Using Subsurface Effects of Plasma Films for Altering Protein Adsorption, European Conference on Surface Science – ECOSS 32, Grenoble, FR, 08-28 to 09-02 ♣

Hegemann Dirk
Reduced Protein Adsorption Found on Plasma-Polymerized Vertical Chemical Gradient Films, 15th Int. Conference on Plasma Surface Engineering (PSE), Garmisch-Partenkirchen, DE, 09-11 to 09-16 ♣

Hegemann Dirk
Hydrophobierung durch Plasmabeschichtungen, WIWeB – Wehrtechnisches Symposium, Erding, DE, 10-11 to 10-13 ♣ ○

Hegemann Dirk
Potential of vertical chemical gradients in plasma polymer films, 3rd Int. Workshop on Plasma Science & Entrepreneurship, Braunschweig, DE, 11-29 to 12-01 ♣ ○

Hegemann Dirk, Vandenbossche, M.; Amberg, M.; Heldal, T.
Fabrics Enabling Electroosmotic Flow, 55. Chemiefasertagung MFC Dornbirn, Dornbirn, AT, 09-20 to 09-22 ♣ ○

Hegemann Dirk, Wertheimer, M.R.; Nisol, B.; Watson, S.
Plasma Polymerization at Low- and Atmospheric-Pressure – A Comparison Based on Energy Conversion, 15th Int. Conference on Plasma Surface Engineering (PSE), Garmisch-Partenkirchen, DE, 09-11 to 09-16 ◆

Heuberger Manfred
Faszination – Synthetische Faser "Wir spinnen", Rotary Club, Luzern, 07-12 ♣ ○

Heuberger Manfred
Scientific Committee, Innovation Day 2016, Dübendorf, 08-25 ■

Heuberger Manfred, Blanchard N.E., Hegemann Dirk
Altering the protein-surface interface via subsurface structuring (https:,, ecis2016.org,), ECIS, Rome, IT, 09-04 to 09-09 ♣ ○

Hufenus Rudolf
Advanced fibers – innovation by combination of materials, Workshop on New Fiber Materials and Conjugate Spinning, South China University of Technology, Guangzhou, CN, 06-07 ♣ ○

Hufenus Rudolf
Advanced fibers – innovation by combination of materials, Seminar Fiber Science & Apparel Design, Cornell University, Ithaca, NY, US, 10-13 ♣ ○

Hufenus Rudolf
Advanced fibers – innovation by combination of materials, Advanced Materials Colloquium, Clemson University, Clemson, SC, US, 10-14 ♣ ○

Hufenus Rudolf
Session Polymers and Smart Applications, The Fiber Society 2016 Spring Conference, Mulhouse, FR, 05-25 to 05-27 ▲ ○

Hufenus Rudolf, Leal A. Andrés
Enhanced damping of composites by novel liquid-core fibers, Aachen-Dresden-Denkendorf International Textile Conference, Dresden, DE, 11-24 to 11-25 ♣ ○

Hufenus Rudolf, Quandt Brit Maike, Leal A. Andrés, Hegemann Dirk
Synthetic fibers tailored for medical textiles, Polymer Processing Society International Conference PPS 32, Lyon, FR, 07-25 to 07-29 ♣

Advanced Fibers

Hufenus Rudolf, Quandt Brit Maike, Leal A. Andrés, Hegemann Dirk
Multicomponent fibers tailored for medical textiles, The Fiber Society 2016 Fall Conference, Ithaca, NY, US, 10-10 to 10-12 ♣

Hufenus Rudolf, Reifler Felix A.
Effect of Stress and Temperature on the Molecular Orientation of Melt-spun Poly(3-hydroxybutyrate) Fibers, The Fiber Society 2016 Spring Conference, Mulhouse, FR, 05-25 to 05-27 ♣

Leal Andrés, Veeramachaneni Joshi, Reifler Felix A., Amberg Martin, Hegemann Dirk, Hufenus Rudolf
A high-performance, fully-thermoplastic fiber-reinforced composite, The Fiber Society 2016 Spring Conference, University of Haute-Alsace, Mulhouse, FR, 05-25 to 05-27 ♣

Liang Shuyu, Hemberger Patrick, Levalois- Grützmacher Joëlle, Grützmacher Hansjörg, Gaan Sabyasachi
Complex thermolysis mechanism of phosphoramidate: Formation of PN based gas phase active phosphorus species, SCS Fall Meeting, Zürich, 09-15 ◆

Liang Shuyu, Hemberger Patrick, Levalois- Grützmacher Joëlle, Grützmacher Hansjörg, Gaan Sabyasachi
Thermolysis pathways of phosphoramidate probed by synchrotron based technique, COST MP1105 Training School on "Strategies to study fire behaviours and fire retardant mechanisms", Barcelona, ES, 02-01 to 02-03 ◆

Liang Shuyu, Hemberger Patrick, Levalois- Grützmacher Joëlle, Grützmacher Hansjörg, Gaan Sabyasachi
Gas Phase Active Phosphorus Species and Their Pathways of Formation, 13th European Workshop on Phosphorus Chemistry, Berlin, DE, 03-07 to 03-09 ◆

Reifler Felix, Hufenus Rudolf
Structural response of melt-spun poly(3-hydroxybutyrate) fibers to heat and stress investigated by wide-angle X-ray diffraction (WAXD) and small-angle X-ray scattering (SAXS), 30th European Crystallographic Meeting (ECM-30), Basel, 08-28 to 09-01 ◆

Rupper Patrick, Reifler Felix, Hilber Markus, El Issawi Leonie
Faseranalytik, Workshop Forschungsinitiative Subitex , Empa St.Gallen, 11-28 ♣

Salmeia Khalifah, Gaan Sabyasachi
P-H bond transformation into P-Cl bond: green methodologies and possible applications, 21st International Conference on Phosphorus Chemistry (ICPC 2016), Kazan, RU, 06-05 to 11-10 ♣

Salmeia Khalifah, Milijana Jovic, Daiva Mikucioniene, Sabyasachi Gaan
Development of Peat Fiber Based Textiles with Enhanced Flame Retardancy, LITHUANIAN-SWISS COOPERATION PROGRAMME "RESEARCH AND DEVELOPMENT" FINAL PROJECT CONFERENCE, Vilnius, LT, 05-26 ◆

Vandenbossche Marianne, Bernard Laetitia, Rupper Patrick, Faccio Greta, Hegemann Dirk
Plasma-based coatings for the enhancement of biomolecule sensing, 15th International Conference on Plasma Surface Engineering, Garmish-Partenkirchen, DE, 09-12 to 09-16 ♣

Vandenbossche Marianne, Bernard Laetitia, Rupper Patrick, Maniura-Weber Katharina, Heuberger Manfred, Faccio Greta, Hegemann Dirk
Plasma-based stable micropattern coating for biosensing purposes, Biointerfaces International 2016, Zürich, 08-23 to 08-25 ◆

Vandenbossche Marianne, Dorst Johanna, Butron Garcia Maria-Isabel, Schütz Urs, Amberg Martin, Rupper Patrick, Fricke Katja, Weltmann Klaus Dieter, Hegemann Dirk
Advanced Functional Plasma Polymer Films, Stable amino-functionalized plasma polymer films, PlasmaShape, St. Gallen, 04-12 ♣

Vandenbossche Marianne, Faccio Greta, Rupper Patrick, Hegemann Dirk
Micropatterned Plasma Polymer Nanofilms for Biomolecules Sensing, E-MRS (European-Materials Research Society) Spring Meeting 2016, Lille, FR, 05-02 to 05-06 ♣

Vasantham Shreyas K., Heuberger Manfred
Critical Casimir Forces between polymer surfaces (https:,, ecis2016org,), ECIS, Rome, IT, 09-04 to 09-09 ◆

Biointerfaces

Bruinink Arie, Pusnik Mascha, Imeri Minire, Deppierraz Grégoire, Malbois Luc, Zinn Manfred
A novel Approach to assess the bioactive and cytotoxic potential of novel biomaterials: The agar Diffusion scratch assay, Ilmac, Bern, 09-21 to 09-23 ◆

Bruinink Arie, Zinn Manfred, Pusnik Mascha, Imeri Minire, Deppierraz Grégoire
The agar-diffusion scratch Assay: A novel method to assess the bioactive and cytotoxic potential of new materials, UKSB Meeting, London, GB, 06-30 to 07-01 ♣

Buhmann Matthias, Ren Qun, Maniura Katharina
The in vivo relevance of antimicrobial activity testing Systems: Towards a model for catheter-associated urinary tract infections, AMP2016, Montpellier, FR, 06-05 to 06-09 ◆

Buhmann Matthias, Wu Songmei, Zuber Flavia, Brugger Jürgen, Maniura Katharina, Ren Qun
Au-nanostructured surface exhibits antibacterial properties, ESGB Annual Meeting 2016. Antimicrobial resistance in microbial biofilm and Options for treatment, Ghent, BE, 10-05 to 10-07 ♣

Faccio Greta
Bacterial oxidative enzymes for functional material surfaces, 8th European Meeting on OxiZymes, Wageningen, NL, 07-03 to 07-07 ♣

Faccio Greta
BRAAVOO Workshop and Creative Design Course & Biodesign for the Real World Winter School, Lausanne, 01-31 to 03-06 ◆

Faccio Greta, Schulenburg Cindy, Jankowska Dagmara, Maniura-Weber Katharina, Richter Michael
A fluorescent biosensor for highly specific neutrophil elastase detection, Biosensors 2016, Gothenburg, SE, 05-25 to 05-27 ♣

Griffoni Chiara, Chan Samantha, Rottmar Markus, Maniura-Weber Katharina
Advanced 3D Skin would healing model for the study and development of materials, Swiss Society for Biomaterials and Regenerative Medicine (SSB+RM), Zürich, 06-09 to 06-10 ◆

Griffoni Chiara, Rottmar Markus, Chan Samantha, Maniura-Weber Katharina
3D skin wound healing model for the study and development of materials, TEDD annual meeting, Wädenswil, 10-27 ◆

Guex Géraldine, Spicer, C.D., Armganth, A., Gelmy, A., Humphrey, E.J., Terracciano, C.M., Stevens, M. M.
Aniline tetramer-co-polycaprolactone fibres as novel materials for biodegradable conductive scaffolds, Biointerfaces International 2016, Zürich, 08-23 to 08-25 ◆

Gutt Beatrice
COST Action: TD1305 Meeting Title: Focus Group on Orthopedic, Newcastle, GB, 01-27 to 01-29 ▲

Gutt Beatrice, Chan S.C.W., Acikgoz C., Zuber F., Grieder K., Ren Q., Maniura-Weber K.
Evaluation of the antimicrobial and cytotoxic activity of metal ion doped TiN coatings, Biointerfaces International 2016, Zürich, 08-22 to 08-25 ◆

Gutt Beatrice, Ertem Elif, Allegri Sergio, Stellacci Francesco, Zuber Flavia, Ren Qun, Mefti Selma, Formentin Kitty, Conde Janine
NANOCLEAN – Endodontic cleaning and disinfection solution (13945.2 R&D), Swiss Medtech day, Bern, 06-07 ◆

Gutt Beatrice, Maniura Katharina, Ren Qun, Chn Samantha, Zuber Flavia, Acikgoz Canet, Jarry Olivier, Niederberger Karin, Wiegandt Katharina, Müller-Wichards Wiebke
Metal-ion doped TiN layers to reduce hospital acquired infection (KTI 16302.2 PFNM-NM), Swiss Medtech day, Bern, 06-07 ◆

Gutt Beatrice, Maniura Katharina, Ren Qun, Chn Samantha, Zuber Flavia, Acikgoz Canet, Jarry Olivier, Niederberger Karin, Wiegandt Katharina, Müller-Wichards Wiebke
Science Slam, Swiss Medtech day, Bern, 06-07 ♣ ○

Gutt Beatrice, Zuber Flavia, Neff Laura, Maniura-Weber Katharina, Ren Qun
Application of a bacterial Proliferation Assay for the reliable Evaluation of anti-bacterial activity of various metal ions, Thesinge Biofilm Meeting, Thesinge, NL, 09-11 to 09-14 ♣ ○

Gutt Beatrice, Zuber Flavia, Neff Laura, Maniura-Weber Katharina, Ren Qun
Application of a bacterial Proliferation Assay for the reliable Evaluation of anti-bacterial activity of various metal ions, Thesinge Biofilm Meeting, Thesinge, NL, 09-11 to 09-14 ◆

Huber Rebecca, Maniura Katharina, Spencer Nicholas D., Rottmar Markus
Protein-Adsorption and Blood-Interaction Studies on Nanotopography Gradients, Gordon Research Conference : Biointerface Science 2016, Les Diablerets, 06-11 to 06-17 ◆

Huber Rebecca, Maniura Katharina, Spencer Nicholas D., Rottmar Markus
Protein-Adsorption and Blood-Interaction Studies on Morphological Gradients, Biointerfaces International 2016, Zürich, 08-22 to 08-25 ◆

Jankowska Dagmara
Monitoring of pH and metabolites in wound healing processes, EUROPT(R)ODE XIII – Conference on optical chemical sensors and biosensors, Graz, AT, 03-20 to 03-24 ◆

Jankowska Dagmara
Monitoring of pH and metabolites in wound healing processes, EUROPT(R)ODE XIII – Conference on Optical Chemical Sensors and Biosensors, Graz, AT, 03-20 to 03-23 ◆

Jankowska Dagmara
Biosensors for Monitoring of enzymatic wound healing process, 10th World Biomaterials Congress, Montreal, CA, 05-17 to 05-22 ♣

Jankowska Dagmara, Bannwarth M., Faccio G., Schulenburg C., Maniura-Weber K., Rossi R., Richter M., Boesel L.
Monitoring of pH and metabolites in wound healing processes (presented by Greta Faccio), Biosensors 2016, Gothenburg, SE, 05-25 to 05-27 ◆

Maniura Katharina
Biointerfaces International 2016, Zürich, 08-23 to 08-25 ▲

Maniura Katharina
In Vitro Characterization of Interfaces for the Development of Antibacterial and Biocompatible Surfaces, AVS 63, Annual Meeting of the American Vacuum Society, Nashville, US, 11-06 to 11-10 ♣ ○

Mertgen Anne-Sophie, Yazgan, G., Faccio, G., Guex, A.G., Fortunato, G., Rottmar, M., Rossi, R., Maniura, K.
Zurich Heart Project: Material modification for stimulation of endothelial functionality, Empa PhD Day, Dübendorf, 11-14 ♣

Biointerfaces

Müller Eike, Rottmar Markus, Guimond Stefanie, Tobler Ursina, Stephan Marc, Berner Simon, Maniura Katharina
In vitro model for developing a 3rd generation ceramic dental implant surface, SSB+RM Conference, Zürich, 06-09 to 06-10 ♣

Müller Eike, Rottmar Markus, Guimond Stefanie, Tobler Ursina, Stephan Marc, Berner Simon, Maniura Katharina
In vitro model for evaluation and development of novel dental implant surfaces, Biointerfaces International 2016, Zürich, 08-22 to 08-25 ◆

Müller Eike, Stephan Marc, Rottmar Markus, Guimond Stefanie, Tobler Ursina, Berner Simon, Bernard André, Bertsch Dietmar, Birkhölzer Jakob, Albrecht Katrin, Maniura Katharina
In vitro model for developing a 3rd generation ceramic dental implant surface, Swiss Medtech day, Bern, 06-07 ◆

Qin Xiao-Hua, Malheiro Vera, Rottmar Markus, Maniura Katharina
Advanced UV-curable anti-fouling hydrogels to resist the foreign-body-response, Swiss Medtech day, Bern, 06-07 ◆

Qin Xiao-Hua, Wang Xiaopu, Rottmar Markus, Maniura Katharina
Two-photon hydrogel micropatterning for in situ cell Manipulation and tissue engineering, Nature Conference on Tissue Engineering and Regenerative Medicine, Guangzhou, CN, 04-05 to 04-10 ◆

Qin Xiao-Hua, Wang Xiaopu, Rottmar Markus, Maniura Katharina
Two-photon micropatterning of cell-interactive hydrogels, Biointerfaces International 2016, Zürich, 08-23 to 08-25 ◆

Ren Qun
Biofilm activities at Empa, Lecture at Bioprocess Laboratory D-BSSE, ETH Basel, Basel, 03-02 ♣ ○

Ren Qun, Buhmann M., Abt D., Elminger S., Altenried S., Betschart P., Zumstein V.
Why do antimicrobial biomaterials fail in vivo?, Swiss Medtech day, Bern, 06-07 ◆

Ren Qun, Stiefel Philipp, Mauerhofer Stefan, Schneider Jana, Maniura-Weber Katharina, Rosenberg Urs, Ren Qun
Development and Evaluation process of an enzymatic cleaner for biofilm removal from endoscopes, 26th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID 2016), Amsterdam, NL, 04-09 to 03-12 ♣

Ren Qun, Wu Songmei, Zuber Flavia, Brugger Jürgen, Maniura-Weber Katharina
Au-nanostructured surface exhibits antibacterial properties, Biointerfaces International 2016, Zürich, 08-24 to 08-26 ◆

Rottmar Markus, Maniura Katharina
Prognostische in vitro Modelle zur Evaluierung von Implantatmaterialien, Workshop: Wechselwirkung Zelle, Material, Henau, DE, 01-21 ♣ ○

Rottmar Markus, Maniura Katharina
Understanding cell-material interactions using advanced in vitro models, SFB-Seminar Lehrstuhl Biomaterialien, University of Bayreuth, University of Bayreuth, DE, 11-28 ♣ ○

Rottmar Markus, Qin Xiao-Hua, Malheiro Vera, Maniura Katharina
Bioinspired Zwitterionic Hydrogels to Resist the Foreign-body-response, Gordon Research Conference: Bioinspired Materials 2016, Les Diablerets, 06-05 to 06-10 ◆

Salentinig Stefan
Small angle scattering for tailoring food materials, Nestlé Seminar, Lausanne, 02-03 ♣ ○

Salentinig Stefan
In-situ small angle X-ray scattering reveals formation of highly organised nanostructures during digestion of milk fat, Seminar, Copenhagen, DK, 11-28 ♣ ○

Salentinig Stefan
Formation of highly ordered nanostructures during the digestion of milk fat, SAXS on Nanosystems: Current Trents and Perspectives, Trieste, IT, 10-10 to 10-12 ♣

Stiefel Philipp
Can biofilm be efficiently removed from endoscopes? Development and Evaluation process of an enzymatic cleaner, 74th Annual Meeting of the Swiss Society for Microbiology, Bern, 06-13 to 06-15 ♣

Straub Hervé, Ren Qun, Maniura Katharina, Zhang Haijiang, Puigmarti Josep, Rossi René
A microfluidic platform to study bacterial interactions with surfaces, Biointerfaces International 2016, Zürich, 08-23 to 08-26 ◆

Weidenbacher Lukas, Mertgen Anne-Sophie, Rottmar Markus, Puigmarti Josep, Maniura Katharina, Rossi René, Fortunato Giuseppino
Cell laden electrospun hybrid membrane to mimic native blood barrier, SSB+RM Conference, Zürich, 06-09 to 06-10 ◆

Weishaupt Ramon
BRAAVOO Workshop and Creative Design Course & Biodesign for the Real World Winter School, Lausanne, 01-31 to 02-06 ◆

Yazgan Gökçe, Tyagi Vasundhara, Rotaru Gelu, Rottmar Markus, Rossi René, Maniura-Weber Katharina, Fortunato Giuseppino
Steering electrospun fiber surface topography by use of Hansen solubility parameters and environmental conditions, SSB+RM Conference, Zürich, 06-09 to 06-10 ♣

Center for X-ray Analytics

Balogh Zoltan, Zweiacker Kai, Neels Antonia, Dommann Alex
"High resolution diffraction analysis of stress in bonded Si wafers" EPDIC15; http:,, www.ba.ic.cnr.it, epdic15,, EPDIC15; http:,, www.ba.ic.cnr.it, epdic15, , Bari, IT, 06-12 to 06-15 ♣ ○

Flisch Alexander, Lüthi Thomas, Plamondon Mathieu, Hartmann Stefan, Kolokytha Selina
High energy CT of illegal cargo mockups to generate X-ray images for a reference data base used for cargo inspection, 6th Conference on Industrial Computed Tomography (iCT 2016, Wels, AT, 02-10 to 02-12 ♣ ○

Griffa Michele, Yang Fei, Kaufmann Rolf
"X-ray tomographic microscopy of porous (building) materials: new possibilities by multi-contrast and multi-scale capabilities", Swiss Society for Optics and Microscopy (SSOM) Interdisciplinary Symposium on 3D Microscopy, Les Diablerets, 10-18 to 10-21 ■

Hartmann Stefan
Automatic Grating Alignment for a Talbot-Lau Interferometer, 6th Conference on Industrial Computed Tomography (iCT 2016, Wels, AT, 02-10 to 02-12 ♣

Kaufmann Rolf
X as unknown, X as eXciting, X as X-Rays, Seminar in Forensic Medicine at Uni Berne, Bern, 02-19 ♣ ○

Kaufmann Rolf
Dark-Field Imaging on Micro- and Macro Focus Sources in Comparison with Normal Micro-CT for Building Materials, WCNDT, Munich, DE, 06-13 to 06-17 ♣ ○

Kaufmann, Rolf
Dark Field Imaging, Workshop about applications for phase contrast and dark-field imaging methods, Munich, DE, 02-18 ♣ ○

Kaufmann, Rolf, M Griffa, F. Yang
Water transport and microstructure evolution in cement-based materials: improving our understanding by multi-contrast X-ray imaging for more sustainable buildings, Desy User Meeting 2016, Hamburg, DE, 01-28 ♣ ○

Kolokytha Selina, S. Kolokytha, A. Flisch, T. Lüthi, M. Plamondon, S. Hartmann
Creating a Reference Database of Cargo Inspection X-ray Images Using High Energy CT of Cargo Mock-ups, IEEE IST 2016, Chania, Crete Island, Greece, October 4-6, 2016, Chania, Crete Island, Greece, GR, 10-04 to 10-06 ♣ ○

Lüthi Thomas, Flisch Alexander, Plamondon Mathieu,
Digital Radiography for Cargo Inspection – Data Acquisition and Evaluation, 19th WCNDT 2016, Munich, DE, 06-13 to 03-17 ♣ ○

Neels Antonia
Materials Science and Technology for Space, Space Career Day„Materials Science and Technology for Space" , Zürich, 03-15 ♣ ○

Neels Antonia
"Empa's Center for X-ray Analytics: Watching the action using X-ray diffraction and imaging techniques", 8th MaMaSELF Status Meeting, Rigi, 05-10 to 05-13 ♣ ○

Neels Antonia
EPDIC15; http:,, www.ba.ic.cnr.it, epdic15, , Bari, IT, 06-12 to 06-15 ▲

Neels Antonia
tbd, European Crystallographic Meeting ECM30; http:,, ecm30.ecanews.org, ecm2016, home.html, Basel, 08-28 to 09-02 ■

Neels Antonia, Dommann Alex, Maeder Xavier
"Advanced in- and out-of-plane HRXRD studies on complex thin film systems" EPDIC15; http:,, www.ba.ic.cnr.it, epdic15,, EPDIC15; http:,, www.ba.ic.cnr.it, epdic15, , Bari, IT, 06-12 to 06-15 ♣ ○

Yang Fei, Griffa Michele, Kaufmann Rolf
Visualization of water drying in porous materials without
contrast agents by X-ray phase contrast imaging, International Symposium on BioMedical Applications of X-Ray Phase Contrast Imaging (IMXP) 2016, Garmisch-Parnenkirchen, DE, 01-21 to 01-22 ◆

Yang Fei, Griffa Michele, Kaufmann Rolf
Advancing the visualization of pure water transport in porous materials by fast, talbot interferometry-based multi-contrast x-ray microtomography, Developments in X-ray Tomography X, San Diego, US, 08-28 to 09-01 ♣

Yang Fei, Griffa Michele, Kaufmann Rolf,
Dark-field imaging of water migration in layered cementitious materials, International Conference on X-Ray Microscopy (XRM2016), Oxford, GB, 08-15 to 08-19 ◆

Particles-Biology Interactions

Aengenheister Leonie
Establishment of a perfused in vitro model of the placental barrier for nanoparticle translocation studies, BioBarriers, Saarbrücken, DE, 03-07 to 03-09 ♣

Aengenheister Leonie
NanoUmwelt Meilenstein –Update nach 18 Monaten, Meilenstein Meeting NanoUmwelt, Worms, DE, 03-17 to 03-18 ♣

Aengenheister Leonie
Establishment of a perfused in vitro model of the placental barrier for nanoparticle translocation studies, Bioactive Compounds Retreat, Warth, 06-27 to 06-28 ♣

Aengenheister Leonie, Cendrowska, U., Wang, J.
Investigations on the Biocorona, CCMX Winterschool, Kandersteg, 01-31 to 02-05 ♣

Particles-Biology Interactions

Aengenheister Leonie, Muoth, C., Wichser, A., Schönenberger, R., Manser, P., Wick, P., Buerki-Thurnherr, T.
Establishment of an advanced in vitro model to study translocation of nanoparticles across the human placenta, Departementsinfo, St.Gallen, 04-27 ◆

Aengenheister Leonie, Muoth, C., Wichser, A., Schönenberger, R., Manser, P., Wick, P., Buerki-Thurnherr, T.
Establishment of an advanced in vitro model to study translocation of nanoparticles across the human placenta, BioBarriers, Saarbrücken, DE, 03-07 to 03-09 ◆

Aengenheister Leonie, Muoth, C., Wichser, A., Schönenberger, R., Manser, P., Wick, P., Buerki-Thurnherr, T.
Establishment of an advanced in vitro model to study translocation of nanoparticles across the human placenta, 9th EPPW, Graz, AT, 06-14 to 06-15 ◆

Bohmer Nils
Robust viability assays for nanoparticle (NP) research: How do NPs interfere with the AnnexinV, PI-assay and flow, CCMX NanoScreen Annual Meeting, Basel, 10-27 ♣

Bohmer Nils
Nanomedicine: Translation from Bench to Bedside, CCMX Winterschool 2016, Kandersteg, 01-31 to 02-05 ♣ ○

Bohmer Nils, Hirsch, C., Rösslein, M., Petersen, E.J., Elliott, J.T., Krug, H.F., Wick, P.
Pushing Preclinical Research in Nanomedicine: How to Control Flow Cytometry as a Viable Tool for..., Nanotoxicology 2016, Boston, US, 06-01 to 06-04 ◆

Buerki-Thurnherr Tina
Plazenta-Barriere: Mit neuen Technologien und Erkentnissen zu aussagekräftigen humanen Modellen, 9.Tierversuchstagung des Schweizer Tierschutz STS, Ersatzmethoden – wohin? , Olten, 03-03 ♣ ○

Buerki-Thurnherr Tina
Exploiting nanoparticle properties and functionalization to steer translocation and biological effects at the human placental barrier, 11th International Conference and Worshop on Biological Barriers, Saarbrücken, DE, 03-07 to 03-09 ◆

Buerki-Thurnherr Tina
A 3D human co-culture microtissue model for nanoparticle effect and uptake studies at the placental barrier, 9th Ex vivo Placenta Perfusion Workshop, Graz, AT, 06-13 to 06-15 ♣

Buerki-Thurnherr Tina, Grafmueller, S., Manser, P., Muoth, C., Aengenheister, L., Wichser, A., Jochum, W., Diener, PA., von Mandach, U., Wick, P.
Towards an improved understanding of nanoparticle-placenta interactions using human ex vivo and advanced in vitro models, TEDD Annual Meeting 2016, Wädenswil, 10-27 ◆

Buerki-Thurnherr Tina, Muoth, C., Aengenheister1, L., Kucki, M., Manser, P., Diener, L., Wichser, A., Schönenberger, R., Jochum, W., Wick, P.
Establishment of novel advanced in vitro models of the human placental barrier for nanoparticle translocation and, 44th Annual Conference of the European Teratology Society, Dublin, IE, 09-11 to 09-13 ♣

Herrmann Inge Katrin
Magnetic Blood Purification Revisited, UIC Seminar, Chicago, US, 05-13 ♣ ○

Herrmann Inge Katrin
Pre-clinical studies with nano medicines required for CTA approval, inet Technology Circle Nanomedicine, Basel, 08-30 ♣ ○

Herrmann Inge Katrin
New Insights into Neturophil-Pathogen Interactions by Correlative Imaging, EMBL From 3D Light to 3D Electron Microscopy Conference, Heidelberg, DE, 03-13 to 03-16 ◆

Herrmann Inge Katrin
Magnetic Blood Purification Revisited!, 9th European Summit for Clinical Nanomedicine and Targeted Medicine (CLINAM), Basel, 06-27 to 06-29 ♣

Herrmann Inge Katrin
Theranostic Magnetic Blood Purification: Towards Personalized Antibiotic Treatment, Gordon Research Conference (GRC) Personalized Medicine, Hong Kong, HK, 07-10 to 07-15 ♣

Hirsch Cordula
The complexicity of "simple" in vitro methods – How nanomaterials even top the challenge, CCMX Winterschool 2016, Kandersteg, 01-31 to 02-05 ♣ ○

Hirsch Cordula
The complexicity of "simple" in vitro methods – How nanomaterials even top the challenge, CCMX Winterschool 2016, Kandersteg, 01-31 to 02-05 ■

Hirsch Cordula, Gaan, S., Mathes, S., Striegl, B., Wick, P., Schildknecht S.
Multiparameter in vitro toxicity assessment of novel DOPO-derived organophosphorus flame retardants, Eurotox 2016, Sevilla, ES, 09-04 to 09-07 ◆

Hirsch Cordula, Kucki, M., Kaiser, J.P., Rippl, A.
Acute toxicity evaluation of SAS particles on differentiated Caco-2 cells, NanoScreen annual meeting, Basel, 10-27 ♣

Hirsch Cordula, Kucki, M., Kaiser, J.P., Rippl, A.
Organisation of Annual Meeting, CCMX: NanoScreen annual meeting, Basel, 10-27 ■

Hirsch Cordula, Roesslein, M., Bohmer, N., May, S., Wick, P.
NanoScreen: Reliable and rapid in vitro safety assessment of nanomaterials, CLINAM, Clinical Nanomedicine and Targeted Medicine, Basel, 06-27 to 06-29 ◆

Kucki Melanie
participation upon invitation, Roadmapping Workshop 2 Electronics & Biomedical organized by Fraunhofer ISI, Frankfurt am Main, DE, 02-05 ■

Kucki Melanie
Graphene-related materials @Biological Barriers, 1st EU-Graphene Flagship Core1 Project WP4 Health and Environment Meeting, Madrid, ES, 10-21 ♣

Kucki Melanie
Interaction of graphene oxide and human intestinal cells in vitro, 2D Materials Workshop, Empa Akademie, Dübendorf, 03-21 to 03-23 ♣ ○

Kucki Melanie
Member of the Programme Committee, Graphene Week conference 2016, Warschau, PL, 06-13 to 06-17 ■

Kucki Melanie, Liliane Diener, Harald F. Krug, Emanuele Treossi, Vincenzo Palermo, Peter Wick
The unlike twins: Uptake of graphene oxide by Caco-2 cells is dependent on cell phenotype and differentiation, Clinam Conference, Basel, 06-26 to 06-29 ◆

Kucki Melanie, Liliane Diener, Harald F. Krug, Peter Wick
One but not the same: Uptake of graphene oxide by Caco-2 cells is dependent on cell morphology and topography, Graphene 2016, Genova, IT, 04-19 to 04-22 ◆

Kucki Melanie, Wick, P.
Graphene-related materials @Biological Barriers, 6th EU-Graphene Flagship WP2 Health and Environment Meeting , Strasbourg, FR, 03-10 to 03-11 ♣

Kucki Melanie, Wick, P.
Graphene-related materials @Biological Barriers, 6th EU-Graphene Flagship WP2 Health and Environment Meeting , Strasbourg, FR, 03-10 to 03-11 ♣

Kucki Melanie, Wick, P.
Graphene-related materials @Biological Barriers, 6th EU-Graphene Flagship WP2 Health and Environment Meeting , Strasbourg, FR, 03-10 to 03-11 ♣

Kucki Melanie, Wick, P.
Graphene-related materials @Biological Barriers, 6th EU-Graphene Flagship WP2 Health and Environment Meeting , Strasbourg, FR, 03-10 to 03-11 ♣

May Sarah, Bohmer, N., Rippl, A., Hirsch, C., Walter, A., Wick, P.
Hazard assessment in early development: How to use robust in vitro assays in nanotoxicology with silica NPs as, CCMX Annual Meeting, Bern, 05-11 ◆

May Sarah, Bohmer, N., Rippl, A., Hirsch, C., Walter, A., Wick, P.
Hazard assessment in early development: How to use robust in vitro assays in nanotoxicology with silica nanoparticles as a case study, CCMX Annual Meeting, Bern, 05-11 ◆

May Sarah, Hirsch, C., Bürkle, A., Wick, P.
Genotoxicity assessment of different engineered nanomaterials, DGDR Konferenz (Deutsche Gesellschaft für DNA-Reparaturforschung), Essen, Uni Klinikum, DE, 09-12 to 09-16 ◆

Muoth Carina, Diener Liliane, Wolfram Jochum, Wick Peter, Buerki-Thurnherr Tina
Advanced placental tissue model to study nanoparticle uptake mechanisms and placental effects, 3D Cell Culture (Dechema), Freiburg im Breisgau, DE, 04-19 to 04-21 ♣

Roesslein Matthias
Particle concentration measurements Interlaboratory comparison of number-based concentration, NanoScreen Anual Meeting 2016, Basel, 10-27 ♣ ○

Roesslein Matthias
Comparable in vitro nano-toxicological measurements the fast lane to new discoveries, CCMX Winterschool 2016, Kandersteg, 01-31 to 02-05 ♣ ○

Roesslein Matthias
Interlaboratory Comparison of the MTS-Assay, NanoReg Meeting 2016, Bilbao, ES, 06-07 to 06-09 ♣ ○

Wick Peter
Data quality: Biological characterization of nanomaterials in vitro, Begleitgruppensitzung Aktionsplan synthetische Nanomaterialien, Bern, 01-23 ♣ ○

Wick Peter
Nanomaterialien an Barrieren: wie die physikalisch-chemischen Eigenschaften von NM die Translokation bestimmen, Nanotoxikologie – Sicherheitsforschung für die Biomedizin und Auswirkungen auf die Umwelt, erlangen, DE, 02-19 ♣ ○

Wick Peter
Making Nano-Particles fit for the clinics, Opening Symposium of the Center for Translational Nanomedicine, Mainz, DE, 02-24 ♣ ○

Wick Peter
Making Nano-Particles fit for application, 4DLifeTech Shareholder Event, Solothurn, 05-03 ♣ ○

Wick Peter
Understanding Nanosafety, CCMX Annual Meeting, Bern, 05-11 ♣ ○

Particles-Biology Interactions

Wick Peter
tba, NanoSimilars, Amsterdam, NL, 12-12 ♣ ○

Wick Peter
Nanoparticle transport across the placental barrier: pushing the field forward, 8th International Nanotoxicology Congress, Boston, US, 06-01 to 06-04 ♣ ○

Wick Peter
Understanding NanoSafety: An interdisciplinary Challenge, AMAES NanoMed Summerschool Cologne, Köln, DE, 08-31 to 09-02 ♣ ○

Wick Peter
Tracking immune-related cell responses to drug delivery microparticles in 3D dense collagen Matrix, ETPN 2016, Heraklion, GR, 10-12 to 10-14 ♣ ○

Protection and Physiology

Annaheim Simon
Protective Clothing against Mechanical Effects, 7th European Conference on Protective Clothing (ECPC), Izmir, TR, 05-23 to 05-25 ▲

Annaheim Simon, Bogerd CP, Koerhuis C, van Beurden M, van Daanen H
Comparison of novel core temperature measuring methods with conventional methods: telemetric intestinal temperature, 7th European Conference on Protective Clothing (ECPC), Izmir, TR, 05-23 to 11-25 ♣

Annaheim Simon, Pitts T, Morrissey M, Weisser P, Capt A, Camenzind M, Rossie RM
Clothing protection and wearing comfort, 7th European Conference on Protective Clothing (ECPC), Izmir, TR, 05-23 to 05-25 ♣

Annaheim Simon, Pitts Thomas, Morrissey Matthew, Camenzind Martin, Rossi René M
Prediction of thermo-physiological impact of fire fighter protective clothing, 11th International Meeting on Thermal Manikin and Modelling (11I3M), Suzhou, CN, 10-12 to 10-14 ♣

Boesel Luciano F.
Medizinische Textilien und Hydrogelen, Wehrtechnisches Symposium "Die Zukunft der Bekleidung und persönlichen Ausrüstung in der Bw", Erding, DE, 10-11 to 10-13 ♣ ○

Boesel Luciano, Scherer Lukas, Baumann Lukas, Schöller Katrin, Popa Ana, Rossi René
Thermo- and photoresponsive polymers for drug delivery applications, Biointerfaces Conference, Zürich, 08-23 to 08-25 ◆

Dabrowska Agnieszka, Adlhart Christian, Spano Fabrizio, Rotaru Gelu-Marius, Derler Sigfried, Zhai Lina, Spencer Nicholas, Rossi Rene
In vivo evidence for the influence of hydration on human skin, 5th Swiss Raman Users Group Meeting 2016, Einsiedlerstrasse 31, Wädenswil, 05-12 ♣ ○

Dabrowska Agnieszka, Rotaru Gelu-Marius, Spano Fabrizio, Affolter Christian, Fortunato Giuseppino, Lehmann Sara, Derler Siegfried, Spencer Nicholas, Rossi René
A Water-Responsive, Gelatine-Based Human Skin Model, 43rd Leeds-Lyon Symposium on Tribology, Leeds, GB, 09-06 to 09-09 ♣

Fortunato Giuseppino
Transport and drug releasing properties of electrospun membranes, Electrospinning: Science and Application, Empa St. Gallen, 06-16 ♣ ○

Fortunato Giuseppino
Transport and drug releasing properties of electrospun membranes, Electrospinning: Science and Application, Empa St. Gallen, 06-16 ♣ ○

Fortunato Giuseppino
Electrospinning: Science and Applications, Empa St. Gallen, 06-16 ■

Fortunato Giuseppino
Hierarchically structured submicron-sized fibers for controlled release of active agents, 6th International Seminar, Modern Polymeric Materials for Environmental Application, Krakow, PL, 04-27 to 04-29 ♣ ○

Guex Anne Géraldine, Spicer Christopher D., Armgarth Astrid, Gelmi Amy, Humphrey Eleanor J., Terracciano Cesare M., Stevens Molly M.
Aniline tetramer-co-polycaprolactone fibres as novel materials for biodegradable conductive scaffolds, Biointerfaces International 2016, Zürich, 08-23 to 08-25 ◆

Haag Alexander
Laserschweissen von Membranen und Textilien, Alakska Seminar , Aachen, DE, 09-22 to 09-23 ♣ ○

Kemp Shelley, Annaheim Simon, Rossi Renè, Camenzind Martin
Proposal of a test method for the determination of the efficacy of protection offered by textiles exposed to liquid hydrocarbon fires, European conference on Protective Clothing, Izmir, TR, 05-23 to 05-25 ♣

Koelblen Barbara, Agnes Psikuta, Anna Bogdan, Simon Annaheim, René M Rossi
Comparison of commonly used fabric 'skins' for their performance during sweating, 11th International Meeting on Thermal Manikins and Modeling (11i3m), Suzhou, CN, 10-12 to 10-14 ♣

Koelblen Barbara, Psikuta Agnes, Bogdan Anna
Systematic comparison of the existing widely used thermal sensation models, Indoor Air 2016 Conference, Ghent, BE, 07-03 to 07-08 ♣

Protection and Physiology

Osypova Alina, Claire-Marie Pradier, Christine Jérôme, Jessem Landoulsi, Sophie Demoustier-Champagne
Design of multi-stimuli responsive films through layer-by-layer assembly for control of protein adsorption, SCS meeting (September 2016), Zurich, 09-15 ♣

Panzarasa Guido
Polymer brushes: new opportunities for their patterning and characterization, SCS Fall Meeting 2016, Irchel Campus, Zürich, 09-15 ◆

Panzarasa Guido, Pifferi Valentina, Soliveri Guido, Ardizzone Silvia, Falciola Luigi
Self-cleaning, reliable and accurate: new nanostructured device takes electroanalysis of neurotransmitters to the next level, SCS Fall Meeting 2016, Irchel Campus, Zürich, 09-15 ◆

Psikuta Agnes, Annette Mark, Rene M. Rossi
The impact of the outer layers in multi-layer clothing systems on the distribution of the air gap thickness and contact area, 7th International Conference and Exhibition on 3D Body Scanning Technologies, Lugano, 11-30 to 12-01 ♣

Psikuta Agnes, Barbara Koelblen, Natividad Martinez, Anna Bogdan, René M Rossi, Simon Annaheim
Attributes of thermal sweating manikins anticipated for coupling with a human thermoregulation model, 11th International Meeting on Thermal Manikins and Modeling (11i3m), Suzhou, CN, 10-12 to 10-14 ♣

Psikuta Agnes, Koelblen Barbara
Thermal sensation in moderate environments – Which model to use?, TAItherm User Group Meeting, Munich, DE, 04-19 to 04-20 ♣ ○

Psikuta Agnes, Martinez Natividad, Bogdan Anna, Koelblen Barbara, Annaheim Simon, Rossi René M
Thermal manikins controlled by human thermoregulation models for indoor environment research, Indoor Air 2016 Conference, Ghent, BE, 07-03 to 07-08 ◆

Quandt Brit Maike, Ferrario Damien, Rossi Rene´ M, Bona Gian-Luca, Boesel Luciano F
Melt-spun polymer optical fibers for decubitus prevention, The 25th International Conference on Plastic Optical Fibres (POF 2016), Birmingham, GB, 09-13 to 09-15 ♣ ○

Quandt Brit Maike, Rossi René M, Bona Gian-Luca, Lustermann Birgit, Boesel Luciano F
Modelling the bend out-coupling of melt-spun polymer optical fibers, The 25th International Conference on Plastic Optical Fibres (POF 2016), Birmingham, GB, 09-13 to 09-15 ♣

Quandt Brit Maike, Rudolf Hufenus,, Bernhard Weisse,, Fabian Braun,, Martin Wolf,, Anke Scheel-Sailer,, Gian-Luca Bona,, Rene´ M. Rossi,, Luciano F. Boesel
Continuous melt-extrusion of touch-sensitive polymer optical fibers (invited as part of the Graduate Student Paper Competition), The Fiber Society Fall Meeting, Ithaca, NY, US, 10-10 to 10-12 ♣ ○

Rossi René
Development of Human Simulators, 11th International Meeting on Thermal Manikin and Modelling, Suzhou, CN, 10-12 to 10-14 ▲ ○

Rossi René, Quandt Brit Maike, Krehel Marek, Pfister Marisa, Reifler Felix, Hufenus Rudolf, Boesel Luciano
Wearable Sensors and Therapy Devices Based on Photonic Textiles, Fiber Society 2016 Spring Conference, Mulhouse, FR, 05-25 to 05-27 ♣ ○

Toncelli Claudio, Olga V. Arzhakova, Alla Dolgova, Aleksandr L. Volynskii, Joseph P. Kerry, Dmitri B. Papkovsky
Phosphorescent oxygen sensors produced by spot-crazing of polyphenylenesulfide films, SCS Fall meeting 2016, Zurich, 09-15 ♣

Weidenbacher Lukas, Mertgen Anne-Sophie, Abrishamkar Afshin, Rottmar Markus, Maniura Katharina, Rossi René, Fortunato Giuseppino
Cell-laden electrospun hybrid membrane to mimic native blood barrier, SSBRM, Zurich, 06-09 to 06-10 ◆

Widmer Susanne, Hsu Chiao-Peng, Zhao Sanyu, Scherer Lukas, Koebel Matthias, Boesel Luciano
Fiber Optical Ammonia Gas Sensor based on FRET Sensing Mechanisms Embedded in Xerogel Matrixes, XIII Europtrode – Conference on Optical Chemical Sensors and Biosensors, Graz, AT, 03-20 to 03-23 ◆

Yazgan Gökçe, Tyagi Vasundhara, Rotaru Gelu, Rottmar Markus, Rossi Rossi, Maniura-Weber Katharina, Fortunato Giuseppino
Steering electrospun fiber surface topography by use of Hansen solubility parameters and environmental conditions, SSB+RM Conference, Zürich, 06-09 to 06-10 ♣

Reliability Science and Technology

Grossmann Günter
Workshop Fertigungsalltag, Materialien und Prozesse, Europäisches Elektroniktechnologie- Kolleg, Colonia San Jordi, ES, 03-16 to 03-18 ♣ ○

Grotevent Matthias, Brönnimann Rolf, Shorubalko Ivan,, YakuninSergii, Dirin Dmitry, Borin Barin Gabriela, Kovalenko Maksym
Quantum Dot-Graphene Hybrid Photodetectors, International Conference on Fundamental Processes in Semiconductor Nanocrystals (FQDots16), Berlin, DE, 09-04 to 09-06 ◆

Hack Erwin, Rastogi Pramod
International Conference on Processes in Combined Digital Optical & Imaging Methods applied to Mechanical Engineering, Ascona, 05-08 to 05-13 ▲ ○

Reliability Science and Technology

Held Marcel, Brönnimann Rolf
Safe cell, safe battery? Battery fire investigation using FMEA, FTA and practical experiments, ESREF 2016. 27th EUROPEAN SYMPOSIUM ON RELIABILITY OF ELECTRON DEVICES, FAILURE PHYSICS AND ANALYSIS, Halle, DE, 09-19 to 09-22 ♣ ○

Jacob Peter
Feld-Frühausfälle in der Autoelektronik, VDE-ITG Grainau, Grainau, DE, 05-03 to 05-04 ♣

Jacob Peter
Failure mechanisms and precautions in plug connectors and relays, ESREF 2016. 27th EUROPEAN SYMPOSIUM ON RELIABILITY OF ELECTRON DEVICES, FAILURE PHYSICS AND ANALYSIS, Halle, DE, 09-19 to 09-22 ♣ ○

Jacob Peter
Early life field failures in modern automotive electronics – An overview; root causes and precautions, ESREF 2016. 27th EUROPEAN SYMPOSIUM ON RELIABILITY OF ELECTRON DEVICES, FAILURE PHYSICS AND ANALYSIS, Halle, DE, 09-19 to 09-22 ♣

Jacob Peter
Unusual defects, generated by wafer sawing: An update, including pick&place processing (Best Paper ESREF 2015 Exchange Program), ISTFA 2016. The International Symposium for Testing and Failure Analysis, Texas, US, 11-06 to 10-10 ♣ ○

Jacob Peter, Christina Pecnik Christina, Nicoletti Giovanni, Broennimann Rolf
Recovering contacting interfaces in packaging and in semiconductor devices: mechanisms and how to handle them in analysis, IPFA 2016. The 23rd International Symposium on the Physical and Failure Analysis of Integrated Circuits, Singapore, SG, 07-18 to 07-21 ♣

Liu Yu, Beyer Andreas, Hofmann Juergen, Flisch Alexander, Sennhauser Urs
REDUCING VOLUMETRIC ARTIFACT IN COMPUTED TOMOGRAPHY BY COOPERATIVE DATA FUSION, International Conference on Processes in Combined Digital Optical & Imaging Methods applied to Mechanical Engineering, Ascona, 05-08 to 05-13 ♣ ○

Pecnik Christina, Jacob Peter, Nicoletti Giovanni, Broennimann Rolf
Unterbrüche, die von selbst heilen: Nano-Opens und ihre Tücken, VDE-ITG , Grainau, DE, 05-03 ♣

Valzania Lorenzo, Zolliker Peter, Hack Erwin
Topography of a fingertip through combined THz Holography and Optical Fringe Projection, International Conference on Processes in Combined Digital Optical & Imaging Methods applied to Mechanical Engineering, Monte Verità, Ascona, 05-08 to 05-13 ♣ ○

Zolliker Peter, Rueggeberger Markus, Hack Erwin
THz Birefringence in Wood: Polarization dependent frequency gaps in THz spectra, IRMMW-THz 2016. 41st International Conference on Infrared, Millimeter and
Terahertz Waves, Copenhagen, DK, 09-25 to 09-29 ♣ ○

Zolliker Peter, Valzania Lorenzo, Hack Erwin
THz Holography with Micro-Bolometers, EMN Meeting on Therahertz Energy Materials Nanotechnology, San Sebastian, ES, 05-14 to 05-18 ♣ ○

Mobility, Energy and Environment

Acoustics, Noise Control

Brink Mark, Pieren Reto, Foraster Maria, Vienneau Danielle, Eze Ikenna, Schaffner Emmanuel, Heritier Harris, Cajochen Christian, Probst-Hensch Nicole, Röösli Martin, Wunderli Jean Marc
Sound radiaiton efficiency measurements on cross-laminated timber plates, internoise 2016, Hamburg, DE, 08-21 to 08-24 ♣ ○

Heritier Harris, Vienneau Danielle, Foraster Maria, Eze Ikenna, Brink Mark, Cajochen Christian, Wunderli Jean Marc, Probst-Hensch Nicole, Röösli Martin
Sound radiaiton efficiency measurements on cross-laminated timber plates, internoise 2016, Hamburg, DE, 08-21 to 08-24 ♣

Lee Alexander, Wunderli Jean Marc, Heutschi Kurt
Sound radiaiton efficiency measurements on cross-laminated timber plates, internoise 2016, Hamburg, DE, 08-21 to 08-24 ♣

Miloševic Milana, Glavitsch Ulrike, He Lei, Dellwo Volker
Segmental features for automatic speaker recognition in a flexible software framework, IAFPA 2016 Annual Conference, York, GB, 07-24 to 07-27 ♣

Pieren Reto
Auralization of Environmental Noise using Sound Synthesis, Auralization Symposium, TU Braunschweig, DE, 08-19 ♣ ○

Pieren Reto
Geräusche der Zukunft, Sounds Unlimited, Basel, 09-15 ♣ ○

Pieren Reto, Wunderli Jean Marc, Zemp Armin, Sohr Sebastian, Heutschi Kurt
Auralization of Railway Noise: A Concept for the Emission Synthesis of Rolling and Impact Noise, Internoise 2016, Hamburg, DE, 08-21 to 08-24 ♣ ○

Poulikakos L.D., Mayer R.M., Heutschi K., Soltic P., Lees A., Van Loo H.
Defining road and rail vehicles with a low environmental footprint, 6th European Transport Research Conference Moving Forward, Warsaw, PL, 04-18 to 04-21 ♣

Acoustics, Noise Control

Rudzik Franziska, Thiesse Laurie, Pieren Reto, Wunderli Jean Marc, Brink Mark, Probst-Hensch Nicole, Röösli Martin, Cajochen Christian
Sound radiaiton efficiency measurements on cross-laminated timber plates, internoise 2016, Hamburg, DE, 08-21 to 08-24 ♣

Santoni Andrea, Bonfiglio P., Fausti P., Schoenwald Stefan, Tröbs Hans-Martin
Sound radiaiton efficiency measurements on cross-laminated timber plates, internoise 2016, Hamburg, DE, 08-21 to 08-24 ♣

Santoni Andrea, Schoenwald Stefan, Van Damme Bart, Tröbs Hans-Martin, Fausti P.
Average sound radiation model for orthopropic cross laminated timber plates, EAA, EuroRegio2016, June 13-15, 2016, Porto, Portugal, Porto, PT, 06-13 to 06-15 ♣

Schoenwald Stefan
Structured Session "Prediction of Sound Insulation of Building Elements and Building Strucutres", EuroRegio 2016, Porto, PT, 06-13 to 06-15 ■

Schoenwald Stefan, Armin Zemp, Stefano Pedersoli
Applicability of measurement method according to ISO 16283 in small rooms at low frequencies, Internoise 2016, Hamburg, DE, 08-21 to 11-23 ♣ ○

Schoenwald Stefan, Monika Rychtarikova
Topic Co-Organizer "Room and Building Acoustics", EuroRegio 2016, Porto, PT, 06-13 to 06-15 ■

Schoenwald Stefan, Patrizio Fausti
Structured Session "New Measurement Techniques in Building Acoustics", Internoise 2016, Hamburg, DE, 08-21 to 08-24 ■

Thiesse Laurie, Rudzik Franziska, Pieren Reto, Wunderli Jean Marc, Spiegel Karine, Brink Marc, Probst-Hensch Nicole, Röösli Martin, Cajochen Christian
Sound radiaiton efficiency measurements on cross-laminated timber plates, internoise 2016, Hamburg, DE, 08-21 to 08-24 ♣

Tröbs Hans-Martin, Schoenwald Stefan, Zemp Armin
Energy distribution and sound radiation caused by the segmentation of a glulam timber floor, Internoise 2016, Hamburg, DE, 08-21 to 08-24 ♣ ○

Van Damme Bart, Dorodnitsyn Vladimir
Beyond Biot: Wave propagation in fluid-filled, closed-cell materials, ICNEM 2016, Lake Tahoe, US, 07-11 to 07-15 ♣

Van Damme Bart, Tröbs Hans-Martin, Schoenwald Stefan
Frequency dependent material properties to model the dynamics of cross laminated timber, ISMA 2016, Leuven, BE, 09-19 to 09-21 ♣

Wunderli Jean Marc, Pieren Reto, Vienneau Danielle, Cajochen Christian, Probst-Hensch Nicole, Röösli Martin, Brink Mark
Parameter study on IR, a metric reflecting short-term temporal variations of transportation noise exposure, internoise 2016, Hamburg, DE, 08-21 to 08-24 ♣ ○

Zellmann Christoph
Fluglärmsimulation mit sonAIR zur Optimierung lärmarmer Flugverfahren, ETH Akustisches Kolloquium, Zürich, 05-25 ♣ ○

Zellmann Christoph, Wunderli Jean Marc, Paschereit Christian Oliver
The sonAIR sound source model: spectral three-dimensional directivity patterns in dependency of the flight condition, INTERNOISE 2016 – 45rd International Congress on Noise Control Engineering: Towards a Quieter Future, Hamburg, DE, 08-21 to 08-24 ♣ ○

Advanced Analytical Technologies

Arbelo Peña Yunieski, Ruiz-Lopez Mabel, Cirelli Claudio, Bleiner Davide
Table-top XUV mass spectrometry for nano-scale chemical imaging, SCS Fall Meeting 2016, Zurich, 09-15 ◆

Barbato Francesco, Arbelo Yunieski, Patterson Bruce, Cirelli Claudio, Bleiner Davide
Suitability of a table-top pseudo-spark source for high energy-resolution off-resonance spectrometry (HEROS), NCCR MUST Annual meeting 2016, Engelberg, 01-11 to 01-13 ◆

Barbato Francesco, Cirelli Claudio, Patterson Bruce, Bleiner Davide
Table-top pseudo-spark XUV source for energy dispersive absorption spectroscopy, SCS Fall Meeting 2016, Zurich, 09-15 ◆

Bleiner Davide
Laser-Plasma Sources Enabling Sub-Threshold Spectro-Radiography, Academy of Sciences, Belgrade, CS, 04-18 ♣

Bleiner Davide
Implementing Plasma-based Extreme UV radiation for table-top nano-analytics, Internal Seminar Osaka University, Osaka, JP, 05-31 ♣ ○

Bleiner Davide
Implementing Plasma XUV-lasing for table-top nano-analytics, International Conference on X-ray Laser, Nara, JP, 05-22 to 05-27 ♣

Bleiner Davide
Table-top X-ray Laser Chemical Imaging, CHanalysis 2016, Beatenberg, 11-18 to 11-19 ♣ ○

Bleiner Davide, Cirelli Claudio, Barbato Francesco, Arbelo Yunieski, Patterson Bruce D.
Short-wavelength Photon-in, Photon-out with a “Home Lab” Source: Limits & Potentials, Wavefront, Trieste, IT, 11-30 to 12-01 ♣ ○

Bleiner Davide, Masoudnia Leili, Ruiz-Lopez Mabel, Arbelo-Peña Yunieski, Barbato Francesco
Implementing Plasma-based Extreme UV Radiation for Table-top Nano-Analytics, SCS Fall Meeting, University of Zurich, 09-15 ◆

Borgschulte Andreas
Advanced Analytical Tools for Energy Storage, Japan – Swiss Workshop on Energy, Tokio, JP, 10-04 to 10-06 ◆ ○

Borgschulte Andreas, Oh Sue Yun, Patterson Bruce, Bleiner Davide, Heier Jakob, Nüesch Frank
Electron-Transfer reactions by time-resolved by magneto-optics, MUST Annual Meeting 2016, Engelberg, 01-11 to 01-13 ◆

Borgschulte Andreas, Patterson Bruce, Bleiner Davide
Time constants in catalytic energy conversion, Swiss Symposium and Summer School 2016: Solar Light to Chemical Energy Conversion, Les Diablerets, 08-28 to 09-01 ◆

Borgschulte Andreas, Sambalova Olga, Delmelle Renaud, Barbato Francesco, Cirelli Claudio, Patterson Bruce D., Bleiner Davide
Table top time-resolved photoemission for hydride thin films and membranes, The future of X-ray and Electron Spectroscopy, Uppsala, SE, 06-15 ◆

Borgschulte Andreas, Sambalova Olga, Delmelle Renaud, Barbato Francesco, Cirelli Claudio, Patterson Bruce D., Bleiner Davide, Ngene Peter, Dam Bernard
Table top time-resolved photoemission for hydride thin films and membranes, E-MRS Fall Meeting, Warszaw, PL, 09-19 to 09-22 ♣

Brem Benjamin, Durdina Lukas, Rindlisbacher Theo, Siegerist Frithjof, Wang Jing
The first aircraft engine certification measurement of non-volatile particulate matter emissions, 20th ETH-Conference on Combustion Generated Nanoparticles, Zurich, 06-13 to 06-16 ♣

Brem Benjamin, Durdina Lukas, Setyan Ari, Kuo Yu-Ying, Wang Jing
Fuel effects on non-volatile particulate matter aircraft gas turbine emissions, European Aerosol Conference, Tours, FR, 09-04 to 09-09 ◆

Chen Sheng-Chieh, Hu Yaorui, Pui David, Wang Jing
Explicit expressions for the minimum efficiency and most penetrating particle size of nuclepore filters, World Filtration Congress 12, Taipei, TW, 04-11 to 04-16 ◆

Chen Sheng-Chieh, Wang Jing, Hu Yaorui, Pui David
Explicit Expressions for the Minimum Efficiency and Most Penetrating Particle Size of Nuclepore Filters, Clean Air and Water Solutions Conference, San Diego Mission Bay, US, 10-24 to 10-27 ♣

Cirelli Claudio, Barbato Francesco, Arbelo Yunieski, Borgschulte Andreas, Mewes Lars, Kinschel Dominik, Arrell Christopher, Budarz James, Leuenberger Dominik, Patterson Bruce, Chergui Majed, Bleiner Davide
Soft X-ray HEROS on photoactive materials, SCS Fall Meeting 2016, Zurich, 09-15 ◆

Czerwinski Jan, Comte Pierre, Heeb Norbert, Mayer Andreas, Lemaier Jan
Experiences of Testing NO2 for Diesel and NH3 for Gasoline Cars, 20th ETH Conference on Combustion Generated Nanoparticles, ETZ Zürich, 06-13 to 06-16 ◆ ○

Czerwinski Jan, Heeb Norbert, Comte Pierre, Mayer Andreas
Particle number reduction of GDI cars with GPFs, 20th ETH Conference on Combustion Generated Nanoparticles, ETH Zürich, 06-13 to 06-16 ◆ ○

Delmelle Renaud, Ngene Peter, Dam Bernard, Bleiner Davide, Borgschulte Andreas
Enhancement of hydrogen permeation through metallic membranes by polymer coating, SAOG – Swiss Working Group for Surface and Interface Science 2016, Fribourg, 01-22 ◆

Durdina Lukas, Brem Benjamin, Wang Jing
How can the new PM emissions standard for aircraft engines help improve assessments of airport air quality and global aviation impacts?, 20th ETH-Conference on Combustion Generated Nanoparticles, Zurich, 06-13 to 06-16 ◆

Durdina Lukas, Brem Benjamin, Wang Jing
Non-volatile PM emissions from an in-production aircraft jet engine determined according to the requirements of a new emission standard, European Aerosol Conference, Tours, FR, 09-04 to 09-09 ♣

Figi Renato, Schreiner Claudia, Bürki Melanie, Nagel Oliver, Romanyuk Yaroslav, Wäger Patrick, Tiwari Ayodhya N., Hagendorfer Harald, Bleiner Davide
Advanced Trace Analysis, Bridging Industrial & Scientific Challenges, SCS Fall Meeting, University of Zurich, 09-15 ◆

He Xu, Brem Benjamin, Wang Jing
Estimating the service life time of the cabin air filters used in automobiles based on tests of loading capacity and filtration efficiency, European Aerosol Conference, Tours, FR, 09-04 to 09-09 ◆

Heeb Norbert
Europa's NOx Problem – Eine Folge ineffizienter deNOx-Katalysatoren und schlechter Abgasgesetzgebung, DECHEMA Kolloquium "Stickoxide: Ist der Diesel noch zu retten?", Frankfurt, DE, 01-14 ♣ ○

Heeb Norbert
GASOMEP: Current status and new concepts of gasoline vehicle emission control, 2nd General GASOMEP Meeting, Empa Dübendorf, 03-17 ♣ ○

Heeb Norbert
7th VERT Forum – Filter and deNOx-technologies: Efficient for both, diesel and gasoline direct injection vehicles, Empa Akademie, Dübendorf, 03-18 ■

Heeb Norbert
Can the diesel solve its Emission Problem in time?, 7th VERT Forum – Filter and deNOx-technologies: Efficient for both, diesel and gasoline direct injection vehicles, Empa Akademie, Dübendorf, 03-18 ♣

Heeb Norbert
Europa's NOx Problem – Eine Folge ineffiziener deNOx-Katalysatoren und schlechter Abgasgesetzgebung, 6. Freiburger Workshop "Luftreinhaltung und Modelle" IVU Umwelt, Freiburg, DE, 06-07 to 06-08 ♣ ○

Heeb Norbert
20th ETH Conference on Combustion Generated Nanoparticles, ETH Zürich, 06-13 to 06-16 ■ ○

Heeb Norbert
The particle-NOx trade-off: Two decades of diesel converter technologies have not settled both issues, 20th ETH Conference on Combustion Generated Nanoparticles, ETH Zürich, 06-13 to 06-16 ♣ ○

Heeb Norbert
Efficient filter and deNOx-technologies for both, diesel- and gasoline-direct injection vehicles, 3id VDI, DECHEMA, GDCh Expert Forum on Atmospheric Chemistry, Frankfurt, DE, 12-05 to 12-06 ♣ ○

Kilic Dogushan, Huang Ru-Jin, Brem Benjamin, Durdina Lukas, El Haddad imad, Klein Felix, Pieber Simone, Rindlisbacher Theodor, Wang Jing, Slowik Jay, Baltensperger Urs, Prévôt Andre
Secondary organic aerosol formation from aircraft turbine engine exhaust, European Aerosol Conference, Tours, FR, 09-04 to 09-09 ◆

Mantecca Paride, Kasemets Kaja, Moschini Enrico, Perelshtein Ilana, Deokar Archana, Gedanken Aharon, Bahk Yeon-Kyoung, Kianfar Bahareh, Wang Jing
Airborne nanoparticle release and toxicological risk from metal oxide-coated textiles: toward a multi-scale safe-by-design approach, 2016 International Nanotoxicology Congress, Boston, US, 06-01 to 06-04 ◆

Munoz Fernandez Maria
Assessment of the genotoxic potential of GDI-vehicles with different GPFs, 7th VERT Forum – Filter and deNOx-technologies: Efficient for both, diesel and gasoline direct injection vehicles, Empa Akademie, Dübendorf, 03-18 ♣

Munoz Fernandez Maria, Bisig Christoph, Heeb Norbert, Rothen-Rutishauser Barbara, Comte Pierre, Czerwinski Jan, Haag Regula, Seiler Cornelia, Schmid Peter, Honegger Peter, Zeyer Kerstin, Mohn Joachim
Comparison of PAH Levels and mutagenicity of GDI- and a diesel vehicle exhaust and Impact of (bio)ethanol, 20th ETH-Conference on Combustion Generated Nanoparticles, ETH Zürich, 06-13 to 06-16 ◆

Netkueakul Woranan, Brem Benjamin, Setyan Ari, Bahk Yeon-Kyoung, Wang Jing
Development of Soot Sensor for Candle Emission Measurement, 20th ETH-Conference on Combustion Generated Nanoparticles, Zurich, 06-13 to 06-16 ◆

Sachinidou Panagiota, Chen Sheng-Chieh, Pui David, Tronville Paolo, Mosimann Thomas, Eriksson Mikael, Wang Jing
Round robin test to evaluate the methodology for determination of the media filtration efficiency against nanoparticles, World Filtration Congress 12, Taipei, TW, 04-11 to 04-16 ♣

Sachinidou Panagiota, Chen Sheng-Chieh, Pui David, Tronville Paolo, Mosimann Thomas, Eriksson Mikael, Wang Jing
Round- Robin evaluation of the methodology for filtration efficiency tests in different filter media against nanoparticles, European Aerosol Conference, Tours, FR, 09-04 to 09-09 ◆

Sachinidou Panagiota, Chen Sheng-Chieh, Pui David, Tronville Paolo, Mosimann Thomas, Eriksson Mikael, Wang Jing
Inter-laboratory comparison to evaluate the methodology for testing filtration media against nanoparticles, Filtech, Cologne, DE, 10-11 to 10-13 ◆

Sambalova Olga, Bleiner Davide, Kroll Alexandra, Borgschulte Andreas
SERS identifies that biofilms interact with silver nanoparticles via carboxylate functional groups, SAOG – Swiss Working Group for Surface and Interface Science 2016, Fribourg, 01-22 ◆

Sambalova Olga, Oh Sue Yun, Probst Benjamin, Alberto Roger, Bleiner Davide, Borgschulte Andreas
Photo-induced Spin Changes in Co-based Water Reduction Catalysts, Swiss Symposium and Summer School 2016: Solar Light to Chemical Energy Conversion, Les Diablerets, 08-28 to 09-01 ◆

Schalles Simone, Lehner Sandro, Schinkel Lena, Schilling Iris, Heeb Norbert, Bogdal Christian, Lienemann Peter, McNeill Kris, Kohler Hans-Peter
Biotransformation of chlorinated paraffins (CP)s with LinA2, a HCH-converting enzyme, SCS Fall Meeting, Zürich, 09-15 ◆

Schinkel Lena, Heeb Norbert, McNeill Kris, Bogdal Christian
Application of LC-APCI-qTOF-MS for simultaneaous analysis of short-, medium- and long-chain chlorinated paraffins in technical and environmental samples, SETAC Europe, Nantes, FR, 05-22 to 05-26 ◆

Schinkel Lena, Lehner Sandro, Bogdal Christian, Heeb Norbert, McNeill Kris
Transformation products of chlorinated paraffins – an analytical nightmare, 9th IBP PhD Congress, Zürich, 04-01 ◆

Schinkel Lena, Lehner Sandro, Lienemann Peter, Bogdal Christian, McNeill Kris, Heeb Norbert
Deconvolution of chlorinated paraffins and their transformation products from DI-CE-APCI-qTOF mass spectra, SCS Fall Meeting, Zürich, 09-15 ◆

Setyan Ari, Kuo Yu-Ying, Brem Benjamin, Durdina Lukas, Gerecke Andreas, Heeb Norbert, Wang Jing
Chemical characterization of volatile organic compounds emitted by an aircraft turbine engine, European Aerosol Conference, Tours, FR, 09-04 to 09-09 ♣

Advanced Analytical Technologies

Setyan Ari, Patrick Michael, Wang Jing
Emission measurement of airborne pollutants in two municipal solid waste incineration plants in Switzerland, 20th ETH-Conference on Combustion Generated Nanoparticles, Zurich, 06-13 to 06-16 ◆

Wang Jing
Carbon nanotubes: release to the environment, toxicity and control technologies, 6th International Conference on Environmental Pollution and Remediation , Budapest, HU, 08-18 to 08-19 ♣ ○

Zennegg Markus
Dioxins and PCBs – Analytical Challenges and some Swiss Case Studies, Swiss Society for Food Chemistry Seminar – Dioxins and PCBs in Food, Bern, 06-24 ♣ ○

Zennegg Markus, Beckmann Matthias, Caduff Andreas, Lanfranchi Marco
Decline of PCB levels in Cattle after decontamination of a heavily PCB polluted farm in Switzerland, 36th International Symposium on Halogenated Persistent Organic Pollutants – Dioxin2016, Florenz, IT, 08-28 to 09-02 ♣

Zennegg Markus, Strobel Anneli, Schmid Peter, Burckhardt-Holm Patricia, Segner Helmut
Persistent organic pollutants in white-blooded Antarctic fish Champsocephalus gunnari and Chaenocephalus aceratus, SCS Fall Meeting 2016, University of Zurich, 09-15 ♣

Air Pollution, Environmental Technology

Berchet Antoine, K. Zink, D. Brunner, L. Emmenegger
TEN YEARS OF CITY-WIDE HIGH-RESOLUTION SIMULATIONS OF NOX CONCENTRATIONS, 10th International Conference on Air Quality – Science and Application, Milano, IT, 03-14 to 03-18 ♣

Berchet Antoine, K. Zink, D. Brunner, L. Emmenegger
Modelling high-resolution city-wide pollutant concentrations in Zürich and Lausanne, GRAL Workshop, Graz, AU, 07-06 to 07-07 ♣ ○

Bereiter Bernhard, Eggleston Sarah, Schmitt Jochen, Nehrbass-Ahles Christoph, Stocker Thomas F., Fischer Hubertus, Kipfstuhl Sepp, Chappellaz Jerome
Analytical Bias in the Oldest Section of the EPICA Dome C CO2 Record, IPICS Open Science Conference, Hobart, Tasmania, AU, 03-07 to 11-11 ◆

Bereiter Bernhard, Severinghaus Jeffrey
An Improved Method to Analyze Heavy Noble Gas Mixing Ratios in Trapped Air in Ice Samples, IPICS Open Science Conference, Hobart, Tasmania, AU, 03-07 to 11-11 ◆

Bereiter Bernhard, Severinghaus Jeffrey, Shackleton Sarah, Baggenstos Daniel, Kawamura Kenji
Mean Ocean Temperature During the Last Glacial Transition: Implications for the "Climate Hiatus", Swiss Global Change Day, Bern, 04-12 ◆

Bereiter Bernhard, Severinghaus Jeffrey, Shackleton Sarah, Baggenstos Daniel, Kawamura Kenji
Mean Ocean Temperature Change Over the Last Transition Based on Atmospheric Changes in Heavy Noble Gas Mixing Ratios, IPICS Open Science Conference, Hobart, Tasmania, AU, 03-07 to 11-11 ♣

Bereiter Bernhard, Severinghaus Jeffrey, Shackleton Sarah, Baggenstos Daniel, Kawamura Kenji
Mean Ocean Temperature During the Last Glacial Transition: Implications for the "Climate Hiatus", EGU General Assembly, Vienna, AT, 04-18 to 04-22 ◆

Boleti Eirini, Christoph Hüglin, Satoshi Takahama
Ozone time scale decomposition and trend assessment from surface observations, Empa Phd Student's Symposium, Dübendorf, 11-14 ♣

Boleti Eirini, Christoph Hüglin, Satoshi Takahama
Ozone trends in Europe during the last 25 years based on time scale decomposition, TFMM Meeting , Utrecht, NL, 05-18 to 05-20 ♣

Boleti Eirini, Christoph Hüglin, Satoshi Takahama
Ozone time scale decomposition and trend assessment from surface observations in Switzerland and Europe, Quadrennial Ozone Symposium of the International Ozone Commission (QOS2016), Edinburgh, GB, 09-04 to 09-09 ◆

Brunner Dominik
Remote sensing, in situ observations, and modelling of urban air pollution, Meteorologisches Kolloquium, Fakultät für Physik, LMU München, Munich, DE, 01-15 ♣ ○

Brunner Dominik
Atmosphärische Chemie- und Transportmodelle – Eine Übersicht, Empa NABEL Tagung 2016, Luftschadstoffe und ihre Modellierung, Dübendorf, 01-20 ♣

Brunner Dominik
The good and the bad face of tropospheric ozone, Ozone Research – Quo Vadis, A symposium to honor Johannes Staehelin, ETH Zurich, Zurich, 05-04 ♣ ○

Brunner Dominik
Transport and inverse modelling of CH4 and CO2 from the regional to the urban scale, CoMet Science Workshop, DLR Institut für Physik der Atmosphäre, Oberpfaffenhofen, DE, 11-30 to 12-02 ♣

Brunner Dominik, Henne Stephan, Bamberger Ines, Berhanu Tesfaye, Bey Isabelle, Buchmann Nina, Davin Edouard, Eugster Werner, Gruber Nicolas, Leuenberger Markus, Liu Yu, Mystakidis Stefanos, Oney Brian, Satar Ece, Seneviratne Sonia
Measurements and Modelling of Carbon Dioxide and Methane in Switzerland: The CarboCount-CH Project, 2nd ICOS Science Conference, Helsinki, FI, 09-27 to 09-29 ♣

Brunner Dominik, Zink Katrin, Berchet Antoine, Emmenegger Lukas
Multi-year simulations of air pollution in two cities, European Geosciences Union General Assembly 2016, Vienna, AT, 04-17 to 04-22 ♣

Emmenegger Lukas
Trace gas measurements at Jungfraujoch, GAW-CH Spring Meeting, Zürich, 04-06 ♣ ○

Emmenegger Lukas, Buchmann Brigitte, Hueglin Christoph, Reimann Stefan, Vollmer Martin, Steinbacher Martin
Sherlock und die Sphinx, Schweizerische Gesellschaft für Meteorologie, Zürich, 06-03 ♣ ○

Emmenegger Lukas, Mohn Joachim, Harris Eliza, Eyer Simon, Ibraim Erkan, Tuzson Béla
QCL spectroscopy for high precision isotope ratio analysis of greenhouse gases, EGU, Vienna, 22.04.2016, Vienna, AT, 04-17 to 04-22 ♣ ○

Emmenegger Lukas, Reimann Stefan, Brunner Dominik, Vollmer Martin, Henne Stephan
Measurements and Modelling for GHG emissions estimation, IG3IS Side Event at EGU 2016, Vienna, AT, 04-17 to 04-22 ♣ ○

Erkan Ibraim Erkan Ibraim, Benjamin Wolf, Stephan Henne, Charlotte Decock, Dominika Lewicka-Szczebak, Eliza Harris, Lukas Emmenegger, Johan Six, Joachim Mohn
N2O from the Swiss midlands: regional sources and hot spots, SCS Fall Meeting 2016, Zurich, 09-15 ♣

Erkan Ibraim Erkan Ibraim, Benjamin Wolf, Stephan Henne, Charlotte Decock, Dominika Lewicka-Szczebak, Eliza Harris, Lukas Emmenegger, Johan Six, Joachim Mohn
Field-scale in-situ analysis of ambient N2O isotopic composition to trace source processes in an intensively managed grassland, PhD Student Symposium Empa Dübendorf, Dübendorf, 11-14 ◆

Erkan Ibraim Erkan Ibraim, Benjamin Wolf, Stephan Henne, Charlotte Decock, Eliza Harris, Lukas Emmenegger, Johan Six, Joachim Mohn
Field-scale in-situ analysis of ambient N2O isotopic composition to trace source processes from an intensively managed grassland, Joint European Stable Isotope User Meeting (JESIUM), Gent, BE, 09-04 to 09-09 ◆

Harris Eliza, Henne Stephan, Hüglin Christoph, Zellweger Christoph, Tuzson, Béla, Ibraim Erkan, Emmenegger Lukas, Mohn Joachim
Can semi-continuous, in-situ measurements of nitrous oxide isotopic composition at a suburban site be used to track emission processes?, 8th International Symposium on Isotopomers, Nantes, FR, 10-03 to 10-06 ♣

Henne Stephan, Liu Y., Mystakidis S., Oney B., Leuenberger M., Eugster W., Davin E., Buchmann N., Seneviratne S., Gruber N., Brunner D.
Monitoring and Modeling of Carbon Fluxes over the Swiss Plateau in the Project CarboCount-CH, ICOS, EUROCOM Workshop, Lund, SE, 06-20 to 06-21 ♣

Henne Stephan, Mystakidis S., Oney B., Leuenberger M., Bamberger I., Steinbacher M., Eugster W., Davin E., Brunner D.
Greenhouse Gas Simulations with FLEXPART-COSMO and COSMO-CLM2, Swiss COSMO User Workshop, Kloten, 01-18 ♣

Henne Stephan, Oney B., Leuenberger M., Eugster W., Meinhardt F., Steinbacher M., Bamberger I., Emmenegger L., Brunner D.
Constraining Swiss Methane Emissions from a Dense Network of Atmospheric Observations, 2nd ICOS Science Conference, Helsinki, FI, 09-27 to 09-29 ◆

Hueglin Christoph, Hundt Morten, Mueller Michael, Emmenegger Lukas
Investigation of the spatio-temporal variation of air pollutants in the city of Zurich using mobile measurements, Faraday Discussions Conference, Chemistry in the Urban Atmosphere, London, GB, 04-06 to 04-08 ◆

Hueglin Christoph, Mueller Michael, Emmenegger Lukas
About the use of small sensors for mapping of air quality in cities with high spatiotemporal resolution, Air Sensors Everywhere Symposium, York, GB, 10-13 to 10-14 ♣ ○

Kantnerová Kristýna, Tuzson Béla, Emmeneger Lukas, Bernasconi Stefano, Mohn Joachim
Clumped isotopes as a novel tracer for the N2O cycle, Empa PhD Symposium 2016, Empa, 11-14 ◆

Kuhlmann Gerrit, Andreas Hueni, Alexander Damm, Dominik Brunner
In-flight spectral calibration of imaging spectrometers with high spectral resolution and wide spectral range, ESA Living Planet Symposium 2016, Prague, CZ, 05-09 to 05-13 ♣

Kuhlmann Gerrit, Andreas Hueni, Alexander Damm, Lukas Emmenegger, Dominik Brunner
High-resolution remote sensing of NO2 maps over Zurich with the Airborne Prism Experiment (APEX): new results, 13th Swiss Geoscience Meeting, Basel, 2015-11-20 to 2015-11-21 ♣

Kuhlmann Gerrit, Andreas Hueni, Dominik Brunner
Detecting methane plumes with the APEX imaging spectrometer, EGU General Assembly 2016, Vienna, AT, 04-17 to 04-22 ◆

Kuhlmann Gerrit, Andreas Hueni, Dominik Brunner
High-resolution NO2 maps of Rotterdam and Zürich retrieved from the APEX imaging spectrometer, EGU General Assembly 2016, Vienna, AT, 04-17 to 04-22 ◆

Mohn Joachim
Validation of Optical Isotope Ratio Spectroscopy 13C, 12C, 15N, 14N, 18O, 16O and 2H, 1H (CO2, N2O and CH4), HIGHGAS Stakeholder Workshop, VSL Delft, NL, 03-08 to 03-09 ♣ ○

Mohn Joachim
Guideline on spectral data for metrological optical isotope ratio spectroscopy, HIGHGAS 4th Meeting, Empa Dübendorf, 09-20 to 09-21 ♣

Mohn Joachim, Ibraim Erkan, Wolf Benjamin, Henne Stephan, Decock Charlotte, Lewicka-Szczebak Dominika, Harris Eliza, Emmenegger Lukas, Six Johan
Field-scale in-situ analysis of ambient N2O isotopic composition to trace source processes in an intensively managed grassland, 8th International Symposium on Isotopomers, Nantes, FR, 10-03 to 10-06 ◆

Mohn Joachim, Yoshida Naohiro
Current status of N2O isotope standard reference materials, Technical Meeting on the Development of IAEA Stable Isotope Reference Products, Vienna, AT, 11-21 to 11-25 ♣ ○

Mueller Michael, Hueglin Christoph
O3 and NO2 Sensor Network in Zurich: Operation and Strategies for QA, QC, COST Action TD1105 EuNetAir, 4th Action Workshop, Vienna, AT, 02-25 to 02-26 ♣

Mueller Michael, Hueglin Christoph
OPERATION OF A LOW-COST NO2, O3 SENSOR NETWORK IN ZURICH: PERFORMANCE ANALYSIS AND APPLICATIONS, 10th International Conference on Air Quality – Science and Application, Milano, IT, 03-14 to 03-18 ♣

Mueller Michael, Hueglin Christoph
Conclusions from one year operating a low-cost sensor network in Zurich, COST Eunetair, final meeting (sixth scientific meeting), Prague, CZ, 10-05 to 10-07 ♣

Müller Michael, Hüglin Christoph
O3 and NO2 low-cost sensor network in Zurich: Operation, performance analysis and strategies for QA, QC, Faraday Discussion: Chemistry in the Urban Atmosphere, London, GB, 04-06 to 04-08 ◆

Mussetti Gianluca, Brunner Dominik, Allegrini Jonas, Carmeliet Jan
Numerical modelling of the urban heat island effect, PhD Symposium, Empa, 11-14 ♣

Mussetti Gianluca, Brunner Dominik, Allegrini Jonas, Carmeliet Jan
Multiscale modelling of the urban heat island effect, Topical Day: High-performance multiscale modelling III, Empa, 11-16 ♣ ○

Mussetti Gianluca, Dominik Brunner, Stephan Henne, Wouters Hendrik, Schubert Sebastian, Allegrini Jonas, Carmeliet Jan
Impact of model resolution and urban parameterization on urban climate simulation: a case study for Zürich, COSMO, CLM, ART User Seminar 2016, DWD headquarter, Frankfurter Straße 135, Offenbac, DE, 2017-03-07 to 2017-03-09 ♣

Reimann Stefan
New halogenated greenhouse gases in the atmosphere and current instrument re-development at Empa, Group Seminar at NILU, , Kjeller, NO, 01-13 ♣ ○

Reimann Stefan
Measurements of halocarbons at Jungfraujoch: from ozone-depleting substances to greenhouse gases and beyond, ozone research – quo vadis 1-day coloquium to honour Prof. Dr. Johannes Staehelin, ETH Zürich, 05-04 ♣ ○

Reimann Stefan
SF6 Monitoring auf dem Jungfraujoch, SwissMEM SF6-Branchenlösung Jahrestreffen, Zürich, 05-12 ♣ ○

Reimann Stefan
Halogenierte Kohlenwasserstoffe in der Atmosphäre – vom Ozonloch zum Treibhauseffekt, Kantonales Laboratorium Zürich, monatliches Wissenschaftsseminar, Zürich, 09-06 ♣ ○

Reimann Stefan
European VOC measurement activites, 10th anniversary atmospheric measurement station Cape Verde, Sao Vicente, CV, 10-27 to 10-28 ♣ ○

Reimann Stefan, Brunner Dominik, Vollmer Martin K., Henne Stephan, Emmenegger Lukas, Manning Alistair
Observation-Based Greenhouse Gas Emission Estimates for Policy Support and Evaluation, IG3IS side event at the annual WMO meeting, Geneva, 06-16 ♣ ○

Reimann Stefan, Brunner Dominik, Vollmer Martin K., Henne Stephan, Emmenegger Lukas, Manning Alistair
Source attribution of halogenated compounds in support of emission inventories for international agreements, ICOS yearly science meeting, Helsinki, FI, 09-27 to 09-29 ♣

Reimann Stefan, Claude Anja
VOCs and NOx under EMEP and ACTRIS, TFMM meeting EMEP, Utrecht, NL, 05-18 to 05-20 ♣

Reimann Stefan, Claude Anja, Hill Matthias, Fieraa Ann-Mari, Plass-Dülmer Christian
Presentation of a VOC data submission tool under EBAS, ACTRIS-2 general meeting, Frascati, IT, 02-29 to 03-04 ◆

Reimann Stefan, Froehlich Tyler, Hueglin Christoph, Hill Matthias
Suitability of acetonitrile as a tracer for residential wood burning in an urban environment in Europe, Faraday Discussion: Chemistry in the Urban Atmosphere, London, GB, 04-06 to 04-08 ◆

Reimann Stefan, Liang Qing, Newman Paul
SPARC Report on the Mystery of Carbon Tetrachloride (CCl4), AGAGE meeting, Ny-Aalesund, SJ, 05-30 to 06-03 ♣

Reimann Stefan, Vollmer Martin K., Emmenegger Lukas
Measurements of new halogenated greenhouse gases at the high-Alpine site Jung-fraujoch using a GC-quadrupole MS and a GC-TOF-MS, CHanalysis 2016, Beatenberg, 11-18 to 11-19 ♣ ○

Reimann Stefan, Vollmer Martin K., Henne Stephan, Brunner Dominik, Emmenegger Lukas, Manning Alistair, Fraser Paul J., Krummel Paul B., Dunse Bronwyn L., DeCola Phillip, Tarasova Oksana A.
Towards a Novel Integrated Approach for Estimating Greenhouse Gas Emissions in Support of International Agreements, AGU annual fall meeting, San Francisco, US, 12-12 to 12-16 ♣

Schwarzenbach Beat, Hueglin Christoph
NO2-Messung mit CAPS-Monitor im Vergleich zu Analysatoren mit Photolyse- und Molybdänkonverter, Messtechnisches Kolloquium, Potsdam, DE, 05-02 to 05-04 ♣

Spenger Benjamin, Vollmer Martin Kasper, Hill Matthias, Wyss Simon Andreas, Emmenegger Lukas, Reimann Stefan
Novel instrumentation for analysis of halogenated trace gases by GC-TOFMS, SCS Fall Meeting 2016, University Zürich, 09-15 ◆

Steinbacher Martin
Updates from RI Committee, Atmospheric Monitoring Station Assembly Atmospheric Thematic Centre, Central Analytical Laboratories, ICOS-CH National Meeting, Duebendorf, 09-01 ♣

Steinbacher Martin, Anet Julien
Improving the Spatial Coverage of Continuous Trace Gas Observation Capacities in Contribution to the Global Atmosphere Watch Programme – Implementation of New Greenhouse Gas Measurements in Cholpon, Seminar at Kyrgyzhydromet, Bishkek, KG, 08-11 ♣ ○

Steinbacher Martin, Müller Michael, Emmenegger Lukas, Hüglin Christoph
Experience with a lost cost NO2, O3 sensor network in Zurich, Switzerland, GAW Expert meeting on Nitrogen Oxides, York, GB, 04-12 to 04-13 ♣

Steinbacher Martin, Schwarzenbach Beat, Hundt Morten, Tuzson Bela, Emmenegger Lukas
New direct NO2 measurement technologies, GAW Expert meeting on Nitrogen Oxides, York, GB, 04-12 to 04-13 ♣

Steinbacher Martin, Wyss Simno, Tuzson Bela, Conen Franz, Martucci Giovanni, Berhanu Tesfaye, Leuenberger Markus, Emmenegger Lukas
The Swiss Contribution to Atmospheric Observations in ICOS RI The Class 1 Candidate Station Jungfraujoch, ICOS Atmsopheric Monitoring Station Assembly, Helsinki, FI, 09-26 to 09-27 ◆

Steinbacher Martin, Wyss Simon, Emmenegger Lukas
Empa's measurements at Jungfraujoch – Sphinx and East Ridge, East Ridge Users' Meeting, Bern, 05-13 ♣

Steinbacher Martin, Wyss Simon, Harris Eliza, Zellweger Chrsitoph, Mohn Joachim, Emmenegger Lukas
Continuous Nitrous Oxide Observations with Mid-Infrared Laser Spectroscopy at Jungfraujoch, Switzerland, ICOS Science Conference, Helsinki, FI, 09-27 to 09-29 ◆

Steinbacher Martin, Wyss Simon, Tuzson Bela, Emmenegger Lukas
Greenhouse Gas Measurements at Jungfraujoch, ICOS-CH National Meeting, Duebendorf, 09-01 ♣

Steinbacher Martin, Zellweger Christoph
Adsorption and desorption processes in pressure regulators, ICOS Atmospheric Monitoring Station Assembly, Brno, CZ, 03-08 to 03-10 ♣

Sundström Anu-Maija, Kühlmann Gerrit, Brunner Dominik
Effect of aerosols on biases in satellite XCO2 observations, ESA Living Planet Symposium 2016, Prague, CZ, 05-09 to 05-13 ◆

Vollmer Martin, Reimann Stefan, AGAGE Team
Non-methane Hydrocarbon Measurements in AGAGE, 54th Meeting of AGAGE Scientists and Cooperating Networks, Stanley, Tasmania, AU, 11-10 to 11-15 ♣

Vollmer Martin, Reimann Stefan, Henne Stefan, Brunner Dominik, Eyer Simon, Hill Matthias, Harris Eliza, Mohn Joachim, Emmenegger Lukas
Beobachtungen und Emissionsabschaetzungen von Nicht-CO2 Treibhausgasen, Empa Nabel Tagung 2016, Duebendorf, 01-20 ♣ ○

Wyss Simon A., Guillevic Myriam, Vicar Martin, Vollmer Martin K., Pascale Celine, Nieuwenkamp Gerard, Reimann Stefan, Niederhauser Bernhard, Emmenegger Lukas
New SI-traceable reference gas mixtures for sulfur hexafluoride (SF6) at the pmol, mol level, SCS Fall Meeting 2016, Zurich, 09-15 ◆

Zellweger Christoph, Mohn Joachim, Reimann Stefan, Vollmer Martin K., Wyss Simon A.
Comparison of reference standards to global scales, HIGHGAS STAKEHOLDER WORKSHOP, VSL, Delft, NL, 03-08 to 03-09 ♣

Zellweger Christoph, Mohn Joachim, Wyss Simon
Progress on comparison of reference standards to global scales, HIGHGAS 4th project meeting, Empa Dübendorf, 09-20 to 09-21 ♣

Zellweger Christoph, Müller Michael, Hundt Morten, Emmenegger Lukas, Hüglin Christoph, Tuzson Béla
Low-cost sensors and high-end instruments for mapping urban NOx pollution, GAW Reactive Gases SAG Meeting, Stanley, Tasmania, AU, 11-10 to 11-14 ♣

Air Pollution, Environmental Technology

Zellweger Christoph, Steinbacher Martin, Buchmann Brigitte, Emmenegger Lukas
Carbon Monoxide Measurements in the GAW Programme, GAW Reactive Gases SAG Meeting, Stanley, Tasmania, AU, 11-10 to 11-14 ♣

Zellweger Christoph, Steinbacher Martin, Emmenegger Lukas, Buchmann Brigitte
Traceability of Measurements within the Global Atmosphere Watch Programme: Results from the World Calibration Centre WCC-Empa, NOAA ESRL Global Monitoring Annual Conference 2016, Boulder Co., US, 05-17 to 05-18 ♣

Zellweger Christoph, Steinbacher Martin, Steinbrecher Rainer, Emmenegger Lukas, Buchmann Brigitte
Traceability of Measurements within the Global Atmosphere Watch Programme: Results from the World Calibration Centre WCC-Empa, Cape Grim Annual Science Meeting 2016, Stanley, Tasmania, AU, 11-16 to 11-18 ♣

Zink Katrin, A. Berchet, D. Brunner, J. Brunner, L. Emmenegger
GRAMM, GRAL: A coupled model system to simulate air pollution at the city scale, 10th International Conference on Air Quality – Science and Application, Milano, IT, 03-14 to 03-18 ◆

Zink Katrin, A. Berchet, D. Brunner, J. Brunner, L. Emmenegger
GRAMM, GRAL: COMPUTING AIR QUALITY MAPS AT THE URBAN SCALE, 17th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Budapest, HU, 05-09 to 05-12 ♣

Automotive Powertrain Technologies

Bach Christian
Brennstoffzellen in automobilen Anwendungen, Empa Akademie , 01-26 ■

Bach Christian
«Zero Emissions» bei Verbrennungsmotoren, Abgasgesetzgebung und Reality-Check, Campus Sursee, 09-20 ■ ○

Bach Christian
Strombasierte Treibstoffe zur Flexibilisierung des Energiesystems, Automotive Day 2016, Bern, 11-09 ♣ ○

Bütler Thomas, Braun Adrian, Küng Lukas
Real-world energy demand determination within the ESMOBIL-RED project, SCCER Mobility, Annual Conference, ETH Zürich, 09-16 ◆

Cabalzar Urs
Power-to-Gas: Empa's demonstration plant "move" and related projects, 11th Conference on Gas-Powered Vehicles: Gaseous-Fuel Drives and Climate Protection Targets: The Right Path, Potsdam, DE, 09-15 to 09-16 ♣ ○

Dimopoulos Eggenschwiler Panayotis
Fluid dynamic Characteristics of AdBlue injectors and their influence on the performance of the SCR catalyst, Aftertreatment Systems for Diesel Engines, Regio Emilia, Kohler Engines, IT, 06-27 to 06-28 ♣ ○

Kammermann Thomas, Lobato Ignacio
Optical Diagnostics of Hydrogen Enrichment in Methane in an Rapid Compression Expansion Machine, SCCER Mobility annual conference 2016, ETZ Zürich, 09-16 ◆

Liao Yujun, Dimopoulos Eggenschwiler Panayotis
Experimental investigation of heat transfer characteristics of UWS spray impingement in diesel SCR, 16th Stuttgart International Symposium , Stuttgart, DE, 03-15 to 03-16 ♣

Rojewski Jakub, Soltic Patrik, Manca di Villahermosa Giacomo
Efficiency potential of gas engines for utility vehicles, SCCER Mobility annual conference 2016, ETZ Zürich, 09-16 ◆

Materials for Energy Conversion

Battaglia Corsin
Towards High-Power All-Solid-State Batteries, University of Maryland, Materials Science and Engineering Departement, Seminar, Maryland, US, 12-05 ♣ ○

Battaglia Corsin
Towards High-Power All-Solid-State Batteries, Massachusetts Institute of Technology, Mechanical Engineering Departement, Seminar, Boston, US, 12-07 ♣ ○

Battaglia Corsin
Japanese Swiss Energy Materials Workshop, Dübendorf, 03-07 to 03-09 ■ ○

Battaglia Corsin
Japanese Swiss Energy Materials Workshop, Dübendorf, 03-07 to 03-09 ▲ ○

Battaglia Corsin
Materials Developments in the PV Space, Pathways to Solar Hydrogen Technologies, Lorentz Center Workshop, Leiden, NL, 06-13 to 06-17 ♣ ○

Battaglia Corsin
International Summer School on CO2 Conversion (SCCER HaE), Villars-sur-Ollon, 08-29 to 09-02 ▲

Battaglia Corsin
Technologien für dezentrale Batteriespeicherlösungen, Fachtagung Energietechnologie, Hightech Zentrum Aargau, Brugg, 10-18 to 11-18 ♣ ○

Battaglia Corsin, Kühnel R. S., Duchêne L., Roedern E., Remhof A.
Towards High-Power All-Solid-State Batteries, ECS Pacific Rim Meeting (PRiME 2016), Honolulu, US, 10-02 to 10-07 ♣ ○

Battaglia Corsin, Yan Y., Kühnel R. S., Remhof A., Rentsch D., Lodziana Z.
A new class of solid-state electrolytes with lithium ion conductivities near liquid electrolytes, 32nd PSI Electrochemistry Symposium, Villigen, 04-27 ◆

Battaglia Corsin, Yan Y., Kühnel R. S., Rentsch D., Remhof A., Lodziana Z.
A new class of solid state electrolytes for lithium ion batteries with conductivities near liquid electrolytes, Japanese Swiss Energy Materials Workshop, Dübendorf, 03-08 ♣ ○

Battaglia Corsin, Yan Y., Kühnel R.-S., Remhof A.
Novel solid-state electrolytes in the class of complex hydrides with lithium ion conductivities near liquid electrolytes, Materials Research Society (MRS) Fall Meeting 2016, Boston, US, 11-29 ♣

Dilger Stefan, Landsmann S., Battaglia C., Pokrant S.
Increasing Conductivity in Composite Particle-based Photoanodes with Carbon Nanotubes and Graphene Oxide for Solar Water Splitting, The 67th Annual Meeting of the International Society of Electrochemistry, The Hague, NL, 08-21 to 08-26 ◆

Dilger Stefan, Landsmann S., Pokrant S.
Carbon Nanotube LaTiO2N Composites as Building Blocks for the scalable Fabrication of large Photoanodes, nanoGe Solar Fuels 16, Berlin, DE, 09-05 to 09-06 ◆

Duchêne Léo, Kühnel R. S., Roedern E., Rentsch D., Moury R., Remhof A., Hagemann H., Battaglia C.
Complex boron hydride based solid-state electrolytes for all-solid-state batteries, Empa PhD Symposium, Dübendorf, 11-14 ♣

Ju Wenbo, Heinz M., Hofer M., Burnat D., Battaglia C., Vogt U. F.
Diaphragm development for alkaline water electrolyzer, Symposium on Electrochemical Energy Conversion and Storage, Technical University Munich, Munich, DE, 10-20 ◆

Ju Wenbo, Heinz M., Hofer M., Burnat D., Battaglia C., Vogt U. F.
Diaphragm Development for Alkaline Water Electrolyzer, International Summer School on CO2 Conversion (SCCER HaE), Villars-sur-Ollon, 08-29 to 09-02 ◆

Kühnel Ruben-Simon
Aqueous electrolytes for supercapacitors, 2nd Cracow's Meeting on Concepts Related to Energy, Cracow, PL, 05-24 to 05-26 ♣ ○

Kühnel Ruben-Simon, Yan Y., Remhof A., Rentsch D., Lodziana Z., Battaglia C.
Lithium Complex Hydride Solid State Electrolytes with Conventional Liquid Electrolyte-like Conductivity, 18th International Meeting on Lithium Batteries (ILMB), Chicago, US, 06-19 to 06-24 ◆

Kühnel Ruben-Simon, Yang Y., Duchêne L., Roedern E., Remhof A., Rentsch D., Lodziana Z., Battaglia C.
Boron-based solid-state electrolytes with high ionic conductivities, University of Münster, MEET Battery Research Center, Seminar, Münster, DE, 11-04 ♣ ○

Pagani Francesco, Stilp E., Pfenninger R., Remhof A., Neels A., Donat A., Rupp J. L. M., Battaglia C.
Epitaxial anode Li4Ti5O12 by pulsed laser deposition as first step towards all-solid-state Li-ion thin-film model batteries, Empa PhD Symposium, Dübendorf, 11-14 ♣

Remhof Arndt
Novel Ionic Conductors, Albert Ludwigs Universität, Kristallographisches Kolloquium , Freiburg im Breisgau, DE, 11-15 ♣ ○

Remhof Arndt, Yan Y., Kühnel R. S., Rentsch D., Lodziana Z., Battaglia C.
Materialien für die Energiespeicherung, PSI FOCUS Kolloquium, Villigen, 04-12 ♣ ○

Remhof Arndt, Yan Y., Kühnel R. S., Rentsch D., Lodziana Z., Battaglia C.
Novel Ionic Conductors, Aarhus Interdisciplinary Nanoscience Center, iNANO Distinguished Lecture, Aarhus, DK, 09-02 ♣ ○

Remhof Arndt, Yan Y., Kühnel R. S., Rentsch D., Lodziana Z., Battaglia C.
Complex hydrides for energy storage and conversion, Hydrides as Energy Materials (HydEM2016), University of Aarhus, Aarhus, DK, 06-01 to 06-03 ♣ ○

Remhof Arndt, Yan Y., Kühnel R. S., Rentsch D., Lodziana Z., Battaglia C.
Solid state electrolytes with Li ion conductivities near liquid electrolytes, European Materials Research Society (E-MRS), Fall Meeting, Warsaw, PL, 09-19 to 09-22 ♣

Remhof Arndt, Yan Y., Rentsch D., Sternemann C., Sahle C., Jena P.
Closing the sorption cycle in Mg(BH4)2 and Ca(BH4)2, 2nd Cracow's Meeting on Concepts Related to Energy, Crakow, PL, 05-24 to 05-25 ■

Roedern Elsa, Kühnel R. S., Yan Y., Duchêne L., Remhof A., Battaglia C.
Metal Amide Borohydride Complexes as Solid-State Ionic Conductors for Magnesium Ion Batteries, 15th International Symposium on Metal-Hydrogen Systems (MH2016), Interlaken, 08-07 to 08-12 ♣

Stilp Evelyn, Cuervo Reyes E.
Footpring of sub-diffuse transport in the impedance spectrum of lithium ion batteries, SCCER Heat and Electricity Storage, Jahrestagung, Horw, 10-24 ◆

Tang Yinglu
Achieving high zT in skutterudites with phase diagram study, The first Stuttgart Workshop on Thermoelectrics, Stuttgart, DE, 08-25 ♣ ○

Tang Yinglu, Battaglia C.
Phase diagram study of Ce-Co-Fe-Sb quaternary system and solubility region of CeyCo4-xFexSb12 skutterudites at 973K, 35th International Conference on Thermoelectrics (ICT2016), Wuhan, CN, 05-29 to 06-02 ♣ ○

Tang Yinglu, Kunz B., Rickhaus P., Cuervo Reyes E., Battaglia C.
The TEcar Project, BFE Trendwatching Meeting, Winterthur, 12-01 ♣ ○

Materials for Energy Conversion

Vogt Ulrich
VI Solar Syngas Workshop, Technical University Clausthal, Clausthal Zellerfeld, DE, 06-01 to 06-02 ■

Vogt Ulrich
European Fuel Cell Forum 2016, Lucerne, 07-03 to 07-07 ▲

Vogt Ulrich
Conference of Non Destructive Testing, Munich, DE, 06-12 to 06-16 ■

Vogt Ulrich, Vogt U. F., Bonk A., Battaglia C., van Bokhoven J., Steinfeld A.
Solar-Thermal Redox Reaction on Foam based CeO2 Ceramics, 9th International Conference on High Temperature Ceramic Matrix Composites and Global Forum on Advanced Materials and Technologies for Sustainable Development 2016, Toronto, CA, 06-26 to 07-01 ♣ ○

Vogt Ulrich, Vogt U.F., Bonk A., van Bokhoven J., Steinfeld A., Battaglia C.
Mixed Oxide Ceramics of CeO2-ZrO2-HfO2 for Solar-Thermochemical Fuel Synthesis, 6th International Congress on Ceramics (ICC-6), Dresden, DE, 08-21 to 08-25 ▲ ○

Technology and Society

Adam Véronique
Flows of engineered nanomaterials through waste treatment and recycling, 2nd NanoSafety Forum for Young Scientists, Visby, Gotland, SE, 09-15 to 09-16 ♣

Adam Véronique, Nowack Bernd
Flows of engineered nanomaterials through waste treatment and recycling, 2nd Nanosafety Forum for Young Scientists, Visby, Gotland, SE, 09-15 to 09-16 ♣

Adam Véronique, Sultan Fadi, Nowack Bernd
Flows of engineered nanomaterials from consumer products to waste treatment and recycling, NanoSafe 2016, Grenoble, FR, 11-07 to 11-10 ♣

Beloin-Saint-Pierre Didier, Hischier Roland
Combining Prospective Modelling and Uncertainty Assessment to Evaluate our Capacity to Differentiate Future Development Scenarios: Case Studies of Graphene Production by Exfoliation Processes, SETAC Europe 22nd LCA Case Study Symposium, Montpellier, FR, 09-20 to 09-22 ♣

Böni Heinz
Wiedergewinnung kritischer Rohstoffe aus Elektronikaltgeräten am Beispiel von Indium und Neodym, Ressourceneffizienz- und Kreislaufwirtschaftskongress Baden-Württemberg, Karlsruhe, DE, 10-06 ♣ ○

Böni Heinz
Einfluss der Vorbehandlung von Elektronikschrott auf die Rückgewinnung kritischer Metalle, Entsorgung von Elektroaltgeräten – 16. Fachkonferenz, Hannover, DE, 02-02 to 02-03 ♣ ○

Caballero-Guzman Alejandro, Nowack Bernd
Environmental concentrations of nanomaterials resulting from five nanoapplication case studies, 2nd Nanosafety Forum for Young Scientists, Gotland, SE, 09-15 to 09-16 ♣

Caballero-Guzman Alejandro, Nowack Bernd
Nanomaterial release data: Are current data useful for material flow modeling?, Nanosafe 2016, Grenoble, FR, 11-07 to 11-10 ♣

Caballero-Guzman Alejandro, Nowack Bernd, Sun Tianyin
Flows of engineered nanomaterials through the recycling process in Switzerland, Workshop on Nanomaterials in Waste Streams at the OECD, Paris, FR, 11-30 ♣ ○

Gasser Michael, Haarman, Arthur
Characterization of E-waste plastic from the informal sector in Delhi – Hazardous additives and separation technologies, Advances in Polymeric Materials 2016, Ahmedabad, IN, 02-12 to 02-14 ♣ ○

Hilty Lorenz
Sustainability at UZH, Enabling Leadership for Transformatonal Teaching and Learning – Final workshop, Zurich, 10-04 ♣ ○

Hilty Lorenz
ICT, Sustainability, and Rebound Effects, Kolloquium Digitalization (TU Berlin), Berlin, DE, 12-12 ♣ ○

Hischier Roland
Ökologie messbar machen, JCI Fürstenland Meeting „das ökologische Gewissen“, St. Gallen, 03-17 ♣ ○

Hischier Roland
Modern ICT – when is its use sustainable? First thoughts about such boarder lines, Open Seminar at CESC, KTH “ICT use – assessing When & How it is sustainable ?”, Stockholm, SE, 09-16 ♣ ○

Hischier Roland
Biokunststoffe und ihre Nachhaltigkeit: Die Sicht der Wissenschaft, Podium „Open Case Kunststoff“, Gewerbemuseum Winterthur, 10-27 ♣ ○

Hischier Roland
Integration of raw materials data into LCA, SATW Workshop on Raw Materials Data Network (supported by Empa, ESM and MatSearch Consulting), Dübendorf, 04-18 to 04-19 ♣ ○

Hischier Roland, Böni Heinz
Reuse of EEE: Limits to Growth ? Meaningfulness of fostering repair and reuse of used EEE in a country with a well-established WEEE recycling scheme, Electronics Goes Green 2016+ Conference, Berlin, DE, 09-06 to 09-09 ♣

Hischier Roland, Salieri Beatrice
A life cycle assessment study of photocatalytic active nanomaterials in view of their potential for a more sustainable hydrogen production pathway, 22nd SETAC Europe LCA Case Study Symposium, Montpellier, FR, 09-20 to 09-22 ♣

Løvik Amund N., Haarman Arthur, Scheepens Arno, Rösslein Matthias, Wäger Patrick, Huisman Jaco
Prospecting secondary raw materials in the urban mine: Data quality and uncertainty of product compositions, Electronics Goes Green 2016+, Berlin, DE, 09-07 to 09-09 ◆

Løvik Amund N., Wäger Patrick
Mining Critical Raw Materials in the Anthroposphere, FEMS Junior Euromat 2016, Lausanne, 07-10 to 07-14 ♣ ○

Mitrano Denise, Lombi Enzo, Aroyo Yadira, Nowack Bernd
Unraveling the Complexitz in the Aging of Nano-Enhanced Textiles: a Comprehensive Sequential Studz on the Effects of Sunlight, Washing and Landfilling, NanoSAFE, Grenoble, FR, 11-07 to 11-10 ♣

Mitrano Denise, Lombi Enzo, Arroyo Yadira, Nowack Bernd
Unraveling the Complexitz in the Aging of Nano-Enhanced Textiles: A Comprehensive Sequential Studz on the Effects of Sunlight, Washing and Landfilling, 11th ICEENN (International Conference on the Environmental Effects of Nanoparticles and Nanomaterials), Golden, Colorado, US, 08-14 to 08-18 ♣

Mitrano Denise, Nowack Bernd
Synthetic textiles as a source of microplastics from households, 7th Late Summer Workshop of the German Water Chemistry Society, Haltern am See, DE, 09-25 to 09-28 ♣

Nowack Bernd
Meeting the needs for aged and released nanomaterials required for further testing, Nanotech France 2016, Paris, FR, 05-31 to 06-02 ♣ ○

Nowack Bernd
Dynamic modeling of the release of engineered nano materials to the environment, Gordon Research Conference, Environmental Sciences: Water. , Holderness, US, 06-26 to 07-01 ◆

Nowack Bernd
Aquatic chemistry in engineered systems: the reactions of nano-silver during washing, 252nd American Chemical Society National Meeting, Philadelphia, US, 08-21 to 08-25 ♣ ○

Reinhard Jürgen
EnviroInfo2016, 30th International EnviroInfo Conference Berlin, Berlin, DE, 09-14 to 09-16 ♣

Reinhard Jürgen, Reinhard Jürgen
Biomass energy potentials and contribution to climate change and costs, Prospects of pro-poor Biomass Energy Value Chains in East Africa (ProBE) , Kitui, KEN, 11-01 to 11-02 ■

Reinhard Jürgen, Reinhard Jürgen
Biomass energy potentials and contribution to climate change and costs, Prospects of pro-poor Biomass Energy Value Chains in East Africa (ProBE) , Moshi, TZA, 11-07 to 11-08 ■

Restrepo Eliette, Løvik Amund N., Wäger Patrick, Widmer Rolf, Müller Daniel B.
Stocks, Flows and Distribution of Critical and Precious Metals in Embedded Electronics in Passenger Vehicles, Electronics Goes Green Congress, Berlin, DE, 09-06 to 09-09 ♣

Restrepo Eliette, Widmer Rolf, Schluep Mathias
Recycling and Disposal Options for Leaded Glass from Cathode Ray Tubes (CRTs), Electronic Goes Green Congress, Berlin, DE, 09-06 to 09-09 ♣

Salieri Beatrice, Hischier Roland
Nanotechnology and Hydrogen production: a LCA study on photocatalytic hydrogen production with nanocarbon-inorganic hybrid material, Convegno della Rete Italiana LCA, Life Cycle Thinking, sostenibilità ed economia circolare,, Ravenna, IT, 06-22 to 06-24 ♣

Salieri Beatrice, Meesters Joris, van De Meent Dik, Hischier Roland, Jolliet Olivier
Fate of nanomaterials for life cycle Impact Assessment: combining USEtox with SimpleBox4Nano, ICEENN, The 11th International conference on the environmental effect of nanoparticles and nanomaterial, Colorado, School of Mine, Golden, US, 08-14 to 08-18 ♣

Salieri Beatrice, Meesters Joris, van de Meent Dik, Hischier Roland, Jolliet Olivier
Advancing the impact assessment of releases of nanomaterials : combining the USEtox and the SimpleBox4Nano Models, 22nd SETAC Europe LCA Case Study Symposium, Montpellier, FR, 09-19 to 09-22 ♣

Salieri Beatrice, Pasteris Andrea, Hischier Roland
An investigation of the ENMs toxicity to freshwater ecotoxicity: the search of the key physicochemical parameter, 26th SETAC Europe Annual Meeting, Nantes, FR, 05-22 to 05-26 ◆

Som Claudia
LICARA Leitfaden für Nachhaltige Innovation, WERZ Seminar: «Risiken von Nanomaterialien – Werkzeuge und Methoden zur Selbstkontrolle», Zug, 04-15 ♣ ○

Som Claudia
LICARA nanoSCAN: evaluating benefits and risks, NANO ALERTA PROGRAM, Sao Paulo – Zürich, Video, BR, 05-16 ♣ ○

Som Claudia
Nachhaltige Innovation von Nanomaterialien und -produkten, Forum Produktion 2016: Industrie 4.0: Chancen und Herausforderungen einer vernetzten und digitalisierten Produktion Eine FTI-Initiative des Bundesministerium für Verkehr, Innovation und Technolog, Linz, AT, 06-01 ♣ ○

Som Claudia, Turner David
Environmental, health and safety assessment of doped nanoporous carbonaceous materials, POROUS4APP 6M meeting, LEITAT, Barcelona, ES, 09-12 to 09-13 ♣

Thiébaud Esther
Dynamic Materials Flow Analysis for Electronic Products, Workshop Raw Materials Data Network, Dübendorf, 04-18 to 04-19 ♣ ○

Thiébaud Esther, Marie Brechbühler Peskova, Lorenz M. Hilty, Mathias Schluep, Martin Faulstich
Service Lifetime and Disposal Pathways of Business Devices, Electronics Goes Green 2016+ Conference, Berlin, DE, 09-06 to 09-09 ♣

Turner David
Empa representative at expert workshop, MICA workshop, Brussels, BE, 09-27 ♣

Turner David, Beaven Richard, Woodman Nick
Evaluating landfill aftercare strategies: a life cycle assessment approach, Landfill Aftercare Forum, Priory Rooms, Birmingham, GB, 06-09 ♣ ○

Turner David, Coello Jon, Watson Geoff, Stringfellow Anne, Powrie William, Ives Matthew, Hall Jim
Application of the Solid Waste Infrastructure Management System (SWIMS) model to support regional and national decision making, The 22nd SETAC LCA case study symposium, Montpellier, FR, 09-20 to 09-22 ♣

Wäger Patrick
Seltene Metalle – Rohstoffe in Zukunftstechnologien, Stadtvorträge, St. Gallische Naturwissenschaftliche Gesellschaft, Naturmuseum St. Gallen, 01-13 ♣ ○

Wäger Patrick
Seltene Metalle in Zukunftstechnologien – vom geogenen zum anthropogenen Rohstofflager, focus Terra, Rahmenprogramm zur Sonderausstellung "BodenSchätzeWerte", 25. August 2015 bis 28. Februar 2016, ETH Zürich, ETH Zürich, 02-03 ♣ ○

Wäger Patrick
Validating sampling and analysis, ProSUM Information Network Event, Brussels, BE, 10-18 ■ ○

Wäger Patrick
Project ProSUM, Workshop Raw Materials Data Network, Akademie, Empa Dübendorf, 04-18 to 04-19 ■ ○

Widmer Rolf
Workshop: 2nd Life von Li-Batterien, Re-Source 2016, München, DE, 04-20 to 04-22 ♣ ○

Widmer Rolf
Recovering scarce technology metals from EoL equipment in Switzerland, Circular Materials Conference 2016, Uni Chalmers, Götheborg, SE, 05-11 to 05-12 ♣ ○

Widmer Rolf
Workshop: GP Session # 3, ISO IWA SRI Roundtable, IUCNat Gland, 07-07 to 07-08 ♣ ○

Wigger Henning, Michael Steinfeldt,, Alvise Banchin
Environmental benefits of coatings based on sintered nano-tungsten-carbide cobalt ceramics, Nanosafe 2016, Grenoble, FR, 11-07 to 11-10 ♣