

Empa Activities 2016

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Empa Activities 2016

Awards

Advanced Analytical Technologies	Sambalova Olga, Bleiner Davide, Kroll Alexandra, Borgschulte Andreas 2 nd 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 Prize in Analytical Science. Swiss Chemical Society Fall meeting
	Zink Katrin Best Poster Award. 10 th International Conference on Air Quality
Applied Wood Materials	Hausmann Michael, Siqueira Gilberto, Kokkinis Dimitri, Libanori Rafael, Zimmermann Tanja, Studart André PHD Symposiums 1 st 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. 8 th 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 1 st place Student Presentation Awards – Effect of magnesium on the stability of C-S-H. The 4 th 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 3 rd place Student Poster Awards - Uptake of S, Se and I in AFm-phases. The 4 th International Workshop on Mechanisms and Modelling of Waste/Cement Interactions, Murten
Functional Polymers	Yeesong Ko 2 nd 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 prize. 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 2 nd prize Environmental Informatics Students Award. EnviroInfo Technical Committee of German Informatics Society
	Reinhard Jürgen, Lorenz Hilty Best Paper Award at the 30 th 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)Se ₂ 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 ♦
Advanced Analytical Technologies	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 ♦
	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 CO ₂ 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 CO ₂ 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 Etienne, 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 ◆
Automotive Powertrain Technologies	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 ◆
	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: Maniura 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 ♦
Concrete/Construction Chemistry	Stritt Carina TBD Supervisor: Löliger Hans-Andrea Co-Supervisor: Flisch Alexander ETH Zürich, Institut für Signal und Informationverarbeitung ♦
	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 Baustoffkunde ○
	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 Science 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 β'' -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 ♦
Mechanical Integrity of Energy Systems	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 ♦
	Chen Zhen High temperature fracture mechanics investigations Supervisor: Mazza Edoardo Co-Supervisor: Holdsworth Stuart ETH Zürich, Institute for Mechanical 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 Mechanical Systems ♦
	Schillai Kilian Fretting Fatigue of high voltage conductors Supervisor: Mazza Edoardo Co-Supervisor: Holdsworth Stuart ETH Zürich, Institute for Mechanical 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 Alignment 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 ○
Mechanics of Materials and Nanostructures	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 ○
	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 Gylvo Co-Supervisor: Utke Ivo ETH Zürich, Department of Mechanical and Process Engineering ◆
	Mieszala Maxime Mechanical properties of 3D metallic architected 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 ○

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, Stellenbosch, 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 saturated 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 numerical Modeling of imbibition, 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 island 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 ○
Nanoscale Materials Science	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 ◆
	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 Anaïs 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 ○
Particles-Biology Interactions	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 ◆
	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) ◆
Protection and Physiology	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 -toxikologie, Microbiology and Immunology ○
	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 Building 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 attachment endothelial cells in blood 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 ♦
	Butti Pascal Graphene RGB Supervisor: Ensslin Klaus Co-Supervisor: Sennhauser Urs ETH Zürich ♦
Reliability Science and Technology	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 ♦
	Cavalli Maria Chiara Sustainable Fully Recycled Asphalt Concrete Supervisor: Mazza Edoardo Co-Supervisor: Poulikakos Lily ETH Zürich, Institute for Mechanical Systems ♦
Road Engineering/Sealing Components	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 ♦
	Ghafoori-roozbahany 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 ◆
	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 ○
Structural Engineering	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 ○
	Bornhöft Nikolaus Ereignisdiskrete Modellierung von Stoffflüssen in der Umwelt unter Unsicherheit (Arbeitstitel) Supervisor: Hilty Lorenz Co-Supervisor: Nowack Bernd Universität Zürich, Ifl ◆
Technology and Society	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 Southampton, 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 ♦
Thin Films and Photovoltaics	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 ♦
	Yuliyani Maksimov Towards Sustainable Software Engineering for the Internet of Things Supervisor: Hilty Lorenz Co-Supervisor: Meyer Sonja Universität Zürich, Informatics ♦
	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 macroscopic 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: Energie + 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

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 structural 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

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 Umweltingenieurwissenschaften	Tuchschnid Martin, Urs Gfeller Mobile Röntgenfluoreszenz-Spektrometrie
	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, Rösger 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 Engineering, 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 Recycling
	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 Universität München, DE	Limnologische Station	Jacob Peter Einführung in die Rasterelektronenmikroskopie
	Verfahrens- und Umwelttechnik	Graule Thomas, Aneziris, Christos Nanoscale 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
Università degli studi Parma IT	Dipartimento 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 Ecopreneurship	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, Wädenswil	Institute of Natural Resource Sciences	Hueglin Christoph Urban Agriculture

University of Applied Sciences, Wädenswil	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 structural Engineering
University of Zurich	Chemistry	Borgschulte Andreas NanoChemistry
		Ernst Karl-Heinz, Anaïs 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./Meduña, 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) *
Advanced Materials and Surfaces	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 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. High Performance Ceramics6, 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. High Performance Ceramics6, 78, 3, 507–513 *
	Crisan, O./Crisan, A. D./Mercioniu, I./Nicula, R./Vasilii, F. Development and structural characterization of exchange-spring-like nanomagnets in (Fe, Co)Pt bulk nanocrystalline alloys. Journal of Magnetism and Magnetic Materials. High Performance Ceramics6, 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. High Performance Ceramics6, 117, 330–337 (joint paper) *

Advanced Materials Processing	Infante-Gómez, D./Herzig, H. P. Design, simulation, and quality evaluation of micro-optical freeform beam shapers at different illumination conditions. Applied Optics. High Performance Ceramics6, 55, 29, 8340–8346 *
	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. High Performance Ceramics6, 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. High Performance Ceramics6, 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. High Performance Ceramics6, 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. High Performance Ceramics6, 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. High Performance Ceramics6, 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. High Performance Ceramics6, 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. High Performance Ceramics6, 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. High Performance Ceramics6, 687, 7–16 (joint paper) *
	Lis, A./Kenel, C./Leinenbach, C. Characteristics of Reactive Ni ₃ Sn ₄ Formation and Growth in Ni–Sn Interlayer Systems. Metallurgical and Materials Transactions A. High Performance Ceramics6, 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. High Performance Ceramics6, 4, 11, 1562–1573 (joint paper) ■
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	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. High Performance Ceramics6, 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. High Performance Ceramics6, 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. High Performance Ceramics6, 112 (1), 1199–1210 ■
	Pini, M./Salieri, B./Ferrari, A. M./Nowack, B./Hischier, R. Human health characterization factors of nano-TiO ₂ for indoor and outdoor environments. The international journal of life cycle assessment. High Performance Ceramics6, 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. High Performance Ceramics6, 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./Liljestam, J./Lotze-Campen, H./Muys, B./Nordborg, M./Ölund, M./Orlowsky, B./Popp, A./Portugal-Pereira, J./Reinhard, U./Scheffle, L./Smith, P. Bioenergy production and sustainable development: science base for policymaking remains limited. GCB Bioenergy. High Performance Ceramics6, 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. High Performance Ceramics6, 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. High Performance Ceramics6, 91, 150–160 ■
	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. High Performance Ceramics6, 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. High Performance Ceramics5, 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. High Performance Ceramics6, 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. High Performance Ceramics6, 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. Maurus Pfister, St.Gallen, 07-08 ♣ ○

Dommann Alex

New X-Ray developments to characterize 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 imaging: New possibilities for analyzing 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

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, Kovalyuk 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 Manufacturing, 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 Réseau des Acteurs Français de l'ALD 2ième édition, 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 ♣

Advanced Materials Processing

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 Yuri, 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, Düsseldorf, 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 Sébastien, 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 Kilian 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 ◆

Reinke Michael, Kuzminykh Yuri, Hoffmann Patrik,	Continuous Chemical Vapor Deposition in the ALD window – Analysis of Surface Kinetics of the Titanium Dioxide Formation, AVS 63rd 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 α -Al ₂ O ₃ 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 🍷
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 ♦

Rossell Marta D, Agrawal Piyush, Hébert Cécile, Passerone Daniele, Erni Rolf
Strain-driven oxygen deficiency in multiferroic SrMnO ₃ 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 SrMnO ₃ thin films, 16th European Microscopy Congress, Lyon, FR, 08-28 to 09-02 🍄 ○
Zhang Yucheng, Carlos Guerra-Núñez, Johann Michler, Meng Li, Hyung Gyu Park³, Marta D. Rossell, Rolf Erni, Ivo Utke
Understanding and Controlling Atomic Layer Deposited TiO ₂ on Carbon-based Nanomaterials: Synthesis, Structure and Interface, 2016 Energy Material Nanotechnology Prague Meeting , Prague, CZ, 06-21 to 06-24 🍄 ○
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
Präzisionsdruck 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 🍄

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 ♦

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, Perugia, IT, 06-05 to 06-10 ♣

Blugan Gurdial, B. Jiang,, J. Kübler,, P. Sturzenegger,, U. Gonzenbach,, M. Misson,, D. Carlidge, 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 electrocatalysts 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-doped Barium Zirconate, 91. DKG Jahrestagung 2016, Freiberg, D, DE, 03-06 to 03-09 ♣ ○

Braun Artur

Arbeitsm Mittagessen zum Thema Sicherheit von Kernreaktoren, Diplomatisches Kolloquium, Arbeitsm Mittagessen 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 Photoelectrodes 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 Functions, CIMTEC, Perugia, 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 🍷

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 technologies – 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 Keramik, 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 ceramic 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 Scientific 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 ◆ ○

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 symposium, 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 competitive 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 sensor 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 spectroscopy on a ruthenium complex for electrochemical water 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 ◆

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 ♣ ○

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, Nanotextology 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 ■

Janczak-Rusch Jolanta	Session Chair at the 11th International Conference on Brazing, High Temperature Brazing and Diffusion Bonding, Aachen, 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 Nanoinforming & 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 Nanoinforming & Microjoining (NMJ2016), International Conference on Nanoinforming & 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 Nanoinforming & 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 ◆
Ast Johannes, Guo Yi, Michler Johann, Maeder Xavier	In situ 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, Guillonnew Gaylord, Bauer Johann, Kraft Oliver, Mischler Stefano, Michler Johann, Philippe Laetitia

Micro-mechanics of LIGA structures and composites with 3D hierarchical cellular structure, Swiss Nanoconvention, Basel, 06-30 to 07-01 ♦

Pethö Laszlo, Schoeppner Rachel, Taylor Aidan, Chawla Vipin, Zechner Johannes, Mohanty Gaurav, Guerra-Núñez 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 micromechanical 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 Pirola, 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-Núñez Carlos, Béron Fanny, Pirola 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-Núñez Carlos, Béron Fanny, Pirola 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-Núñez Carlos, Béron Fanny, Pirola 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-Núñez Carlos, Béron Fanny, Pirola 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-Núñez 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-Núñez 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 🍷

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, Rhodes, 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 Laetitia

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 parameters at the lower limit of crystallinity, ICEM17, Rhodes, GR, 07-03 to 07-09 🍄

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 Deposition, 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 Dzyaloshinskii-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 Dzyaloshinskii-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

Quantitative 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 Dzyaloshinskii-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 Dzyaloshinskii-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 PENTAHHELICENE 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 Dzyaloshinskii-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 Dzyaloshinskii-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, Nottingham, 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 🍄

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 ♣

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, elecmod 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 🍷

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 ♦

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 Benjamin, 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 materials 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, Benjamin Bissig, Antonio Abate, Shaik M. Zakeeruddin, Michael Grätzel, Stephan Buecheler, Ayodhya N. Tiwari

Low band-gap Cu(In,Ga)S₂ 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, Würle 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, Avancini Enrico, Nishiwaki Shiro, Buecheler Stephan, Romanyuk Yaroslav E., Tiwari Ayodhya N. Metal oxide layers for passivation concepts in Cu(In,Ga)Se ₂ 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)Se ₂ 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)Se ₂ 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)Se ₂ Tandem Thin Film Solar Cell, EUPVSEC2016, München, 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, PSC02016, 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)La ₃ Zr ₂₀ 12 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 Photovoltaic Solar Energy Conference and Exhibition , Munich, DE, 06-21 to 06-24 🍷 ○

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 🍷 ○

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 🍷 ○

Bachtar Erik, Niemz Peter

Material characterization of walnut (*Juglans regia* L.) and cherry (*Prunus avium* L.) Wood, Analysis and Characterisation of Wood 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 Rüt 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 ♦

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 🍄 ○

Brunner Samuel

the 2002 Questions -are VIP good enough for Building 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 Japanese 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, Saucke, 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, Saucke, 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 🍄

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-mantle 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 alkoxyxilanes, SCS Fall Meeting, Zürich, 09-15 ♦

Stojanovic Ana, Comesana, Malfait, Koebel

Hydrophobization of silica aerogels by mixed alkoxyxilanes, 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 🍷

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 🍷 ○

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 aluminosilicate glasses in alkaline solution, RILEM TC DTA Workshop on Alkaline-activated Materials for Construction, Delft, NL, 04-14 ♣ ○

Winnefeld Frank, Götz-Neunhoffer 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-Partenkirchen, 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, International Conference on X-ray Microscopy (XRM2016), Oxford, GB, 08-15 to 08-19 ◆

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 ♣

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 IGM0V rotor steel, IOM3 Workshop on low rupture ductility of materials, Loughborough, 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 due to 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 vane development for safelife procedure assessment and validation through service-like TMF tests 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 tests for the validation and assessment of a creep-fatigue lifetime procedure development for GT blades and vane, 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 Integrity 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, IN, 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, Rhodes, GR, 07-03 to 07-07 🍷
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 Growth, 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 G _{thr} , 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 WS ₂ nanoparticles as tribologic and toughening additives for epoxy, 1st International Conference on Materials Design and Applications, Porto, PT, 06-30 to 07-01 🍷

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 🍷

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 🍷

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 🍷

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, Treuholtz 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 and 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, 8th 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 🍷 ○

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 slabs strengthened in transverse direction with EB CFRP strips, Cost Action TU2017, Next Generation design guidelines for composites in Construction, Lodz, PL, 04-05 🍷 ○

Gallego Juan Manuel, Czaderski Christoph

Fatigue behavior at elevated temperature of RC slabs strengthened with EB CFRP strips, Cost Action TU2017 Next generation design guidelines 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 Kong, 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 Iguaçu, 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 Iguaçu, BR, 06-26 to 06-30 🍷

Harmanci Yunus Emre, Michels Julien, Chatzi Eleni

Residual resistance 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 Kong, 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, Stockholm, 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 1186-1193, 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 🍷

On-site dynamic testing of a light-frame Timber Building, WCTE 2016, World Conference on Timber Engineering, Vienna, AT, 08-22 to 08-25 🏠

COMSOL Implementation of a Porous Media Model for Simulating Pressure Development in Heated Concrete, COMSOL Conference 2016, Munich, DE, 10-12 to 10-14 🏠

Schwingungstilger – Theoretische Grundlagen und praktische Anwendung, 19. Symposium Bauwerksdynamik und Erschütterungsmessungen Ziegler Consultants, Dübendorf, 06-03 🏠 ○

Dynamic Energy Weighting Factors to Promote the Integration of Renewables into Buildings, Sustainable Built Environment regional conference, ETH-Zurich, 06-15 to 06-17 🏠

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 🏠

Multi-agent reinforcement learning for optimizing technology deployment in distributed multi-energy systems, EG-ICE 2016, Krakow, PL, 06-29 to 07-01 🏠

A simulation platform to facilitate the design of distributed energy systems for buildings and districts, Status Seminar, Brenet, Zürich, 09-08 to 09-09 🏠

Dezentrale Energiesysteme für Areale und Quartiere, 2. Fachkongress Energie + Bauen St. Gallen, St. Gallen, 05-27 🏠

Energieeffizienz Infrastruktur -Forschungsergebnisse und Beispiele SCCER FEEB&D, energie-cluster.ch, Kurs Energieeffizienz-Management im Unternehmen, Spreitenbach, 06-15 🏠

Modelling, design and assessment of decentralised energy systems for sites and quarters, Status Seminar, Brenet, Zürich, 09-08 to 09-09 🏠

Absorption based seasonal thermal storage with sodium hydroxide, Progress and Outlook, Status Seminar, Brenet, Zürich, 09-08 to 09-09 🏠

Applying optimal dispatch algorithms in large multi-carrier energy networks, IEEE Conference on Decision and Control, Las Vegas, US, 12-12 to 12-14 🏠

Game theory mechanism design for multi-carrier energy networks, IEEE Conference on Decision and Control, Las Vegas, US, 12-12 to 12-14 🏠

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 🏠

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 🏠

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 🏠

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 🏠

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 🏠

Holistic optimization of urban morphology and district energy systems, Sustainable Built Environment regional conference, ETH-Zurich, 06-13 to 06-17 🏠

Using Interpolation to Generate Hourly Annual Solar Potential Profiles for Complex Geometries, Building Simulation & Optimisation, Newcastle, GB, 09-12 to 09-14 🏠

Dynamic urban energy demand modellin to address building retrofitting alternatives in Switzerland, Status Seminar, Brenet, Zürich, 09-08 to 09-09 🏠

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, Reimsburg, DE, 12-02 to 12-03 🍷 ○

Amberg Martin, Hanselmann Barbara, Hegemann Dirk

Möglichkeit 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 Dopa 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 Boguslaw, Fernández-Ronco María Pilar, Hufebus Rudolf, El Fray Mirosława

WPLYW SKŁADU SEGMENTOWEGO W MULTIBLOKOWYM KOPOLIESTRZE NA WYBRANE WŁASCIWOSCI MIESZANIN Z POLIHIDROKSYMASLANEM (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 🍷

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- Grützmaier Joëlle, Grützmaier 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- Grützmaier Joëlle, Grützmaier 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- Grützmaier Joëlle, Grützmaier 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 ♦

Rupprecht 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, Rupprecht 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, Rupprecht 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, Rupprecht 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, Rupprecht 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://ecis2016.org/>), ECIS, Rome, IT, 09-04 to 09-09 ♦

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 wound 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, Allegrì 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, Chan 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, Chan 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 ♣

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 Trends 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 ♣

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-Partenkirchen, 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 ◆

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 🍷

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 Erkenntnissen 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 Workshop 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 complexity of "simple" in vitro methods – How nanomaterials even top the challenge, CCMX Winterschool 2016, Kandersteg, 01-31 to 02-05 ♣ ○

Hirsch Cordula

The complexity 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 Annual 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 ♣ ○

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 🍄 ○

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, Alaksa Seminar, Aachen, DE, 09-22 to 09-23 🍄 ○

Kemp Shelley, Annaheim Simon, Rossi René, 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 🍄

Osykova 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, Falcioni 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?, TAltherm 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 René 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,, René 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, SSBM, 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 🍷

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 ▲ ○

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

Brink Mark, Pieren Reto, Foraster Maria, Vienneau Danielle, Eze Ikenna, Schaffner Emmanuel, Heritier Harris, Cajochen Christian, Probst-Hensch Nicole, Rösli Martin, Wunderli Jean Marc

Sound radiation 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, Rösli Martin

Sound radiation efficiency measurements on cross-laminated timber plates, internoise 2016, Hamburg, DE, 08-21 to 08-24 🍷

Lee Alexander, Wunderli Jean Marc, Heutschi Kurt

Sound radiation efficiency measurements on cross-laminated timber plates, internoise 2016, Hamburg, DE, 08-21 to 08-24 🍷

Milošević 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 🍷

Rudzik Franziska, Thiesse Laurie, Pieren Reto, Wunderli Jean Marc, Brink Mark, Probst-Hensch Nicole, Röösl Martin, Cajochen Christian

Sound radiation 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 radiation 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 orthotropic 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 Structures", 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, Röösl Martin, Cajochen Christian

Sound radiation 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, Röösl 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 lärmarmen 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 🍄 ○

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, Warsaw, 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 NO_x Problem – Eine Folge ineffizienter deNO_x-Katalysatoren und schlechter Abgasgesetzgebung, DECHEMA Kolloquium "Stickoxide: Ist der Diesel noch zu retten?", Frankfurt, DE, 01-14 ♣ ○
- Heeb Norbert**
GASOME: Current status and new concepts of gasoline vehicle emission control, 2nd General GASOME Meeting, Empa Dübendorf, 03-17 ♣ ○
- Heeb Norbert**
7th VERT Forum – Filter and deNO_x-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 ineffizienter 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, 3rd 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 simultaneous 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 ♣

■ Organisation

◆ Poster

♣ Lecture

○ invited

▲ Chair

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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 ♣

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, Nehrass-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 Jungfrauoch, 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, Emmenegger 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, Offenbach, 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 colloquium 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 activities, 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-frauoch 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 Jungfrauoch, ICOS Atmospheric Monitoring Station Assembly, Helsinki, FI, 09-26 to 09-27 ♦

Steinbacher Martin, Wyss Simon, Emmenegger Lukas

Empa's measurements at Jungfrauoch – Sphinx and East Ridge, East Ridge Users' Meeting, Bern, 05-13 🍷

Steinbacher Martin, Wyss Simon, Harris Eliza, Zellweger Christoph, Mohn Joachim, Emmenegger Lukas

Continuous Nitrous Oxide Observations with Mid-Infrared Laser Spectroscopy at Jungfrauoch, Switzerland, ICOS Science Conference, Helsinki, FI, 09-27 to 09-29 ♦

Steinbacher Martin, Wyss Simon, Tuzson Bela, Emmenegger Lukas

Greenhouse Gas Measurements at Jungfrauoch, 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, Köhlmann 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 Emissionsabschätzungen 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 NO_x pollution, GAW Reactive Gases SAG Meeting, Stanley, Tasmania, AU, 11-10 to 11-14 🍷

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 ♣

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 ♦

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, Cracow, 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.

Footprint 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 Ce_{1-x}Co_xFeSb₁₂ 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 ♣ ○

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 CeO ₂ 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 CeO ₂ -ZrO ₂ -HfO ₂ for Solar-Thermochemical Fuel Synthesis, 6th International Congress on Ceramics (ICC-6), Dresden, DE, 08-21 to 08-25 ▲ ○
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, Haarmann, 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 Complexitiz 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, Aroyo Yadira, Nowack Bernd

Unraveling the Complexitiz 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 Lead 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 Technologie, Linz, AT, 06-01 🍄 ○

■ Organisation

♦ Poster

🍄 Lecture

○ invited

▲ Chair

Conferences 2016

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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 Schlupe, 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, Göteborg, 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, Alvis Banchin

Environmental benefits of coatings based on sintered nano-tungsten-carbide cobalt ceramics, Nanosafe 2016, Grenoble, FR, 11-07 to 11-10 🌿