

# Empa Activities 2017

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# Empa Activities 2017

## Awards

<b>Advanced Analytical Technologies</b>	<b>Durdina Lukas</b> Poster award. 21 <sup>st</sup> ETH-Conference on Combustion Generated Nanoparticles
	<b>Knobloch Marco</b> Titania Award of Old Fellows of Students organization for his bachelor thesis. ZHAW, Chemistry department
	<b>Schinkel Lena</b> Chemistry Travel Award. Swiss Academy of Sciences (SCNAT) and Swiss Chemical Society (SCS)
	<b>Schinkel Lena</b> SGMS Travel Grant. Swiss Group for Mass Spectrometry (SGMS)
<b>Advanced Fibers</b>	<b>Yurong Yan, Wentao Zhang, Xiaochun Li, Ruitian Zhu, Peng Zhang, Rudolf Hufenus</b> 2 <sup>nd</sup> Place, Poster Competition Award, The Fiber Society Spring 2017 Conference. The Fiber Society
<b>Advanced Materials Processing</b>	<b>Kenel Christoph</b> Empa Research Award 2017. Empa Dubendorf
<b>Air Pollution/Environmental Technology</b>	<b>Kantnerová Kristýna</b> Best Oral Presentation Award, runner-up in the session Analytical Sciences. Swiss Chemical Society; Metrohm
	<b>Kantnerová Kristýna</b> Poster prize. 1 <sup>st</sup> D-ERDW and D-USYS Graduate Research Symposium, ETH Zürich
<b>Applied Wood Materials</b>	<b>Civardi Chiara</b> 3 <sup>rd</sup> prize in 2017 competition, International Academy of Wood Science (IAWS). Thünen Institute of Wood Research
	<b>Kläusler Oliver</b> 1 <sup>st</sup> place in Swiss National Falling Walls Lab Contest (Zürich). the falling walls foundation
	<b>Kläusler Oliver</b> Swiss Startup top 100 award 2017. venture lab & Handelszeitung (Zürich)
	<b>Schaufelberger Luca</b> Swiss Youth in Science award + Gold medal in the GENIUS Science Olympiade 2017 in the USA. GENIUS Olympiad organization
	<b>Zimmermann Tanja, Burgert Ingo</b> 2. Preis Holzbau für Nest Vision Holz. Cadre D'OR
<b>Automotive Powertrain Technologies</b>	<b>Nocivelli Lorenzo</b> Honours and highest possible grade. Politecnico di Milano
<b>Biointerfaces</b>	<b>Gontsarik Mark</b> 2 <sup>nd</sup> Price for the best oral presentation. European Student Colloid and Interface Society
<b>Biomimetic Membranes and Textiles</b>	<b>Quandt Brit Maike</b> 2 <sup>nd</sup> Place Swiss Medtech Day «Science Slam». Swiss Medtech Day «Science Slam»
<b>Building Energy Materials and Components</b>	<b>Guerrero-Alburquerque Natalia</b> BASF Advanced Materials Poster Award. BASF
	<b>Guerrero Alburquerque Natalia</b> Best poster award. Empa- PhD Symposium
	<b>Stojanovic Ana</b> Award for the most inovative business model-Nexaero. ZHAW/Startup Campus
<b>Center for X-ray Analytics</b>	<b>Balogh Zoltan</b> Best presentation award, young crystallographers at the 25th annual meeting of the German Crystallographic Society. DGK
<b>Concrete/Construction Chemistry</b>	<b>Ghourchian Sadegh</b> 3 <sup>rd</sup> poster prize. 6 <sup>th</sup> Biot Poromechanics Conference, Paris, France
<b>Electron Microscopy Center</b>	<b>Agrawal Piyush</b> Travel Award by the European Microscopy Society. Microscopy Congress 2017, Lausanne
	<b>Bologna Nicolas</b> Travel Award by the European Microscopy Society. Microscopy Congress 2017, Lausanne
	<b>Kozak Roksolana</b> Travel Award by the European Microscopy Society. Multinational Microscopy Congress 2017, Rovinj
<b>Functional Polymers</b>	<b>Verma Anand</b> First Poster Prize. 15. Nationale Photovoltaik-Tagung. SwissTech Convention Center, Lausanne
<b>Joining Technologies and Corrosion</b>	<b>Dörner Lars</b> 3 <sup>rd</sup> Place Oral Presentation Award. Empa PhD Symposium
	<b>Schmutz Patrik, Özdirik Berk</b> European Federation of Corrosion, EUROCORR Young Scientist Grant 2017: Mr. Berk Özdirik and Dr. Patrik Schmutz. EUROCORR

<b>Materials for Energy Conversion</b>	<b>Duchêne Léo</b> Poster Award. Empa-PhD Symposium
	<b>Reber David</b> 1 <sup>st</sup> Poster Prize. 5 <sup>th</sup> International Symposium on Enhanced Electrochemical Capacitors
<b>Mechanical Integrity of Energy Systems</b>	<b>Holdsworth Stuart</b> HIDA award for Research and Consulting in Plant Integrity. HIDA-7 Conference, Portsmouth (UK)
	<b>Vacchieri Erica</b> ETH Medal 2017. ETH Zürich
<b>Mechanics of Materials and Nanostructures</b>	<b>Priebe Agnies, Pillatsch Lex</b> Poster Prize. Microscopy Conference 2017
<b>Multiscale Studies in Building Physics</b>	<b>Guizzardi Michela, Derome Dominique, Mannes David, Vonbank Roger, Carmeliet Jan</b> Alan H. Yorkdale Memorial Award. ASTM Alan H. Yorkdale Award
	<b>Ito Parada Marcelo Yoiti, Derome Dominique, Rossi René, Carmeliet Jan</b> Textile Research Editor-recommended articles 2017. SAGE Publishing
	<b>Manickathan Lento</b> Outstanding Oral Presentation. The American Meteorological Society
<b>Nanoscale Materials Science</b>	<b>Kawecki Maciej, Hany Roland, Jenatsch Sandra, Hug Hans J., Bernard Laetitia</b> Rowland Hill Oral Presentation Award. SIMS21 International coconference committee
	<b>Mairena Anaïs</b> 2017 Chemistry Travel Award. Swiss Academy of Sciences (SCNAT) and Swiss Chemical Society (SCS)
	<b>Mairena Anaïs</b> 2017 CMSZH Travel Award. Graduate School of Chemical and Molecular Sciences Zurich (CMSZH)
	<b>Zhao Xue</b> 2017 MMM Student Travel Award. Student Travel and Awards Chair of 2017 MMM Conference
<b>nanotech@surfaces</b>	<b>DiGiovannantonio Marco</b> Best Poster Award SAOG Meeting 2017. SAOG
	<b>Schütt Ole, Andreas Glöss, Jürg Hutter, Alfio Lazzaro, Hans Pabst, Patrick Seewald</b> PASC 17 Best Poster Award Chemistry & Materials, PASC 17. Platform for Advanced Scientific Computing (PASC)
<b>NEST</b>	<b>Largo Reto, Mark Zimmermann, Rico Marchesi, Daniel Beerle, Stefan Kälin, Reto Fischer, Philipp Heer, Caroline Knaack, Luca Baldini, Peter Richner, Robert Weber</b> „umsicht – regards – sguardi“ Award 2017. Swiss Society of Engineers and Architects
<b>Particles-Biology Interactions</b>	<b>Bohmer Nils, Katja Nau, Nils Bohmer, Harald Krug, Dana Kuehnel, Clarissa Marquardt, Florian Paul, Christoph Steinbach</b> Poster Award. EuroNanoForum 2017, Malta, MT
	<b>Buerki Tina, Buerki-Thurnherr T., Muoth C., Großgarten M., Karst U., Manser P. Diener L., Kucki M., Wichser A., Jochum W., Wick P.</b> Best Poster Award CLINAM. CLINAM 2017
	<b>Keevend Kerda</b> Best oral presentation. Empa-PhD Symposium
<b>Road Engineering/Sealing Components</b>	<b>Cavalli Maria Chiara</b> Best Poster Award. EATA 2017 Conference
	<b>Cavalli Maria Chiara</b> Best Paper Award. ISAP 2017 APE Symposium
	<b>Kakar Muhammad Rafiq</b> Sanggar Sanjung Award 2015 & 2016. Universiti Sains Malaysia
<b>Structural Engineering</b>	<b>Harmanci Yunus Emre, Michels Julien, Chatzi Eleni</b> 2 <sup>nd</sup> Place Oral Presentation Award. Empa- PhD Symposium
<b>Technology and Society</b>	<b>Hilty Lorenz, Reinhard Jürgen</b> Best Paper Award EnviroInfo 2017. Technical Committee Environmental Informatics of the German Informatics Society and Program Committee
	<b>Nowack Bernd</b> 2017 Highly Cited Researcher Award. Clarivate Analytics, Web of Science
	<b>Reinhard Jürgen</b> Best Paper Award. EnviroInfo Conference 2017, Luxemburg, LU
	<b>Thiébaud-Müller Esther</b> Wissenschaftspreis "Abfall- und Ressourcenwirtschaft". Deutsche Gesellschaft für Abfallwirtschaft
	<b>Turner David, Williams Ian, Kemp Simon</b> ISWA Publication Award 2017. The International Solid Waste Association
	<b>Turner David, Williams Ian, Kemp Simon</b> James Jackson Award 2017. The Chartered Institute of Waste Managers (CIWM)
<b>Thin Films and Photovoltaics</b>	<b>Feurer Thomas, Benjamin Bissig, Fan Fu, Enrico Avancini, Stephan Bücheler and Ayodhya N. Tiwari</b> Expert's Choice Poster Presentation Award. Empa-PhD Symposium

<b>Thin Films and Photovoltaics</b>	<b>Fu Fan</b> Excellent scientific first-author publication Award, Swiss NanoConvention. Swiss Micro & Nanotechnology Network
	<b>Fu Fan</b> Graduate Student Award. E-MRS Spring meeting
	<b>Sabaté Maria Ibanez</b> Ruzicka Price. ETH Zürich
<b>Transport at Nanoscale Interfaces</b>	<b>Mermoud Yves, Synhaivska Olena, Baghernejad Masoud, Wipf Mathias, Sahana Sarkar, Calame Michel</b> Best Poster Award. Eurosensors 2017
	<b>Overbeck Jan</b> Best Talk Award, SNI Annual Meeting 2017, Lenzerheide. Swiss Nanoscience Institute
	<b>Perrin Mickael</b> Steven-Hoogendijk Prize best PhD thesis of TU Delft. Bataafsch Genootschap der Proefondervindelijke Wijsbeerte NL-Rotterdam
	<b>Thodkar Kishan</b> Best Poster Presentation Award. Empa-PhD Symposium
<b>Urban Energy Systems</b>	<b>Waibel Christoph</b> IBPSA Student Travel Award. IBPSA
	<b>Yazdanie Mashael</b> SAEE Student Award 2017, 2 <sup>nd</sup> prize. SAEE

# Empa Activities 2017

## PhD Theses

Acoustics/Noise Control	<b>Pieren Reto</b> Auralization of Environmental Noise using Sound Synthesis Supervisor: Simons Dick G. Co-Supervisor: Delf University of Technology, Aerospace Engineering, Delf, NL ◆
	<b>Rietdijk Frederik</b> Auralisation of airplanes considering sound propagation in a turbulent atmosphere Supervisor: Kropp Wolfgang Co-Supervisor: Heutschi Kurt Chalmers, Applied Acoustics, Gothenburg SE ○
	<b>Santoni Andrea</b> Sound Radiation and Sound Transmission in Building Structures: Numerical Modelling and Experimental Validation Supervisor: Fausti Patricio Co-Supervisor: Schoenwald Stefan University of Ferrara, Civil Engineering, Ferrara, IT ○
	<b>Zellmann Christoph</b> Development of an Aircraft Noise Emission Model Accounting for Flight Parameters Supervisor: Paschereit Christian-Oliver Co-Supervisor: Wunderli Jean Marc TU Berlin, Institut für Strömungsmechanik und technische Akustik, Berlin, DE ○
Advanced Analytical Technologies	<b>Barbato Francesco</b> XUV Phase Contrast Radiography of Energy Materials under Shock Compression Supervisor: Bleiner Davide Co-Supervisor: Bleiner Davide Uni Zürich, Chemistry ◆
	<b>Driesen Charlotte</b> Persistent Organic Pollutants (POP) in the Swiss Agriculture: Assessment of the Current Status, Opportunities for Improvement and Added Value Supervisor: Bleiner Davide Co-Supervisor: Zennegg Markus Uni Zürich, Chemistry ◆
	<b>Drodova Sarka</b> VOC degradation by photocatalysts Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zurich, Institute of Environmental Engineering ◆
	<b>Fuze Jiang</b> Novel fibrous materials for air quality Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zurich, Institute of Environmental Engineering ◆
	<b>He Xu</b> Investigation of Various Engineered Nanoparticles: Environmental Remediation Applications and Transportation in the Environment after Disposal Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zurich, Institute of Environmental Engineering ○
	<b>Jean Schmitt</b> Engineering of 3D micro-structures for air quality Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zurich, Institute of Environmental Engineering ◆
	<b>Menzi Samuel</b> TBD Supervisor: Osterwalder Jürg Co-Supervisor: Cirelli Claudio Uni Zürich, Physics ◆
	<b>Netkueakul Woranan</b> Risk assessment of graphene based materials Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zurich, Institute of Environmental Engineering ◆

<b>Advanced Analytical Technologies</b>	<p><b>Sachinidou Panagiota</b> Nanoparticle Filtration and electret filter media Supervisor: Wang Jing Co-Supervisor: Wang Jing ETH Zurich, Institute of Environmental Engineering ◆</p>
	<p><b>Sambalova Olga</b> Laser membrane photoemission on heterogeneous solar water splitting Supervisor: Borgschulte Andreas Co-Supervisor: Borgschulte Andreas Uni Zürich, Department of Chemistry ◆</p>
	<p><b>Schinkel Lena</b> New analytical methods for emerging chlorinated paraffins and transformation products Supervisor: McNeill Christopher Co-Supervisor: Heeb Norbert ETH Zurich, Institute of Biogeochemistry and Pollutant Dynamics (IBP) ◆</p>
	<p><b>Terreni Jasmin</b> Mimicking the natural CO<sub>2</sub> fixation and reduction reactions for Renewable Energy Storage Supervisor: Borgschulte Andreas Co-Supervisor: Borgschulte Andreas Uni Zürich, Department of Chemistry ◆</p>
	<p><b>Arbelo Yunieski</b> XUV laser mass spectrometry of water oxidation catalysts Supervisor: Bleiner Davide Co-Supervisor: Bleiner Davide Uni Zürich, Chemistry ○</p>
<b>Advanced Fibers</b>	<p><b>Bülbül Ezgi</b> Using Subsurface Structuring to Study Modified Long-range Interactions that Affect Adsorption of Molecules Supervisor: Heuberger Manfred Co-Supervisor: Hegemann Dirk ETH Zurich, Dept. of Materials ○</p>
	<p><b>Jakubowski Konrad</b> Textile light conversion for flexible surfaces and wearable applications Supervisor: Heuberger Manfred Co-Supervisor: Hufenus Rudolf ETH Zurich, Dept. of Materials ◆</p>
	<p><b>Liang Shuyu</b> Transient Phosphorus Species in Combustion Supervisor: Grützmacher Hansjörg Co-Supervisor: Gaan Sabyasachi ETH Zurich, Department of Chemistry and Applied Biosciences ○</p>
	<p><b>Pan Dan</b> A new way to determining the radial temperature distribution of fiber during melt spinning Supervisor: Chen Long Co-Supervisor: Gooneie Ali Donghua University, Department of Materials Science and Engineering, Shanghai, CN ◆</p>
	<p><b>Selli Figen</b> Investigation of Different Types of Modified Polyester Fibers and Their Effects on Fabric Properties Supervisor: Erdogan Halis Co-Supervisor: Hufenus Rudolf Dokuz Eylul University, Department of Textile Engineering, Izmir, TR ◆</p>
<b>Advanced Materials Processing</b>	<p><b>Berger Luisa</b> Coupling effects in artificial nano-dot lattices prepared by focused electron beam and atomic layer deposition (CANDLE) Supervisor: Hoffmann Patrik Co-Supervisor: Utke Ivo</p>
	<p><b>Griffiths Seth</b> Additive manufacturing of precipitation hardening Ni superalloys Supervisor: Hoffmann Patrik Co-Supervisor: Leinenbach Christian EPF Lausanne, Laboratory of Photonic Materials and Characterisation ◆</p>
	<p><b>Infante Daniel</b> Combined refractive and diffractive microdevices Supervisor: Herzig Hanspeter Co-Supervisor: Hoffmann Patrik EPF Lausanne, Optics and Photonics Technology Laboratory OPT ◆</p>
	<p><b>Le Dantec Marie</b> Light initiated drying and melting of silicon powder Supervisor: Hoffmann Patrik Co-Supervisor: Leparoux Marc/Vaucher Sébastien EPF Lausanne, Photonic Materials and Characterization ◆</p>

<b>Advanced Materials Processing</b>	<p><b>Li Xiaoshuang</b>  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 ◆</p>
	<p><b>Lindström Victor</b>  Optimization of Au-based alloys for laser additive manufacturing  Supervisor: Hoffmann Patrik  Co-Supervisor: Leinenbach Christian  EPF Lausanne, Photonic Materials and Characterization ◆</p>
	<p><b>Markó Dominik</b>  new precursors for focused electron beam induced deposition  Supervisor: Hoffmann Patrik  Co-Supervisor: Utke Ivo  EPF Lausanne, Photonic Materials and Characterization ◆</p>
	<p><b>Vahdati Seyedpayam</b>  Microjet laser cutting of Sapphire  Supervisor: Hoffmann Patrik  Co-Supervisor: Kuzminykh Yury  EPF Lausanne, Photonic Materials and Characterization ◆</p>
<b>Air Pollution/Environmental Technology</b>	<p><b>Boleti Eirini</b>  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 ◆</p>
	<p><b>Ibraim Erkan</b>  N2O from the Swiss midlands: regional sources and hot spots  Supervisor: Six Johan  Co-Supervisor: Mohn Joachim  ETH Zürich, Dept. of Environmental Systems Science ◆</p>
	<p><b>Kantnerova Kristyna</b>  Clumped isotopes as a novel tracer for the N2O cycle  Supervisor: Bernasconi Stefano  Co-Supervisor: Mohn Joachim  ETH Zürich, Geological Institute ◆</p>
	<p><b>Mussetti Gianluca</b>  Urban Climate and Air Quality modelling  Supervisor: Carmeliet Jan  Co-Supervisor: Brunner Dominik  ETH Zürich, Building Physics ◆</p>
<b>Applied Wood Materials</b>	<p><b>Bachtiar Eric Valentin</b>  Material characterization of Wood, adhesives and coating of cultural heritage under various climatic conditions  Supervisor: Burgert Ingo  Co-Supervisor: Burgert Ingo  ETH Zurich, Institut für Baustoffe IfB ◆</p>
	<p><b>Bösiger Peter</b>  Development of a smart bio composite wound dressing  Supervisor: Schwarze Francis  Co-Supervisor: Fortunato Giuseppino</p>
	<p><b>Casdorff Kirstin</b>  Wood surface modification and characterization by AFM  Supervisor: Burgert Ingo  Co-Supervisor: Burgert Ingo  ETH Zurich, Institut für Baustoffe ○</p>
	<p><b>Frey Marion</b>  xxx  Supervisor: Burgert Ingo  Co-Supervisor: Burgert Ingo  ETH Zurich, Institut für Baustoffe ◆</p>
	<p><b>Goldhahn Christian</b>  Nano-Bio Modification of Wood and Wood-Based Materials for Novel Applications  Supervisor: Burgert Ingo  Co-Supervisor: Chanana Munish  ETH Zurich, Institut für Baustoffe ◆</p>
	<p><b>Grönquist Philippe</b>  Smart, innovative manufacturing of curved wooden components for architecture with complex geometry  Supervisor: Burgert Ingo  Co-Supervisor: Rüggeberg Markus  ETH Zürich, Institut für Baustoffe ◆</p>

**Applied Wood Materials****Hausmann Michael**

Hierarchically structured cellulose-based Composites  
Supervisor: Studart André  
Co-Supervisor: De Freitas Siqueira Gilberto  
ETH Zurich, 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 Institut für Baustoffe ◆

**Lämmlein Sarah**

Microstructure-property relationship in varnished wood of string instruments  
Supervisor: Burgert Ingo  
Co-Supervisor: Schwarze Francis  
ETH Zürich, I Institut für Baustoffe ◆

**Oluyinka Olaniran Samuel**

Mechanical characterization of modified woods  
Supervisor: Burgert Ingo  
Co-Supervisor: Rüggeberg Markus  
ETH Zürich, Institut für Baustoffe IfB ◆

**Orsolini Paola**

Elaboration of functional materials using bio-based waste resources as building blocks  
Supervisor: Niederberger Markus  
Co-Supervisor: Zimmermann Tanja  
ETH Zurich, 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, 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 Zurich, Institut für Baustoffe ○

**Tu Kunkun**

Functionalization of wood materials for carbon dioxide capture and fire resistance (prov. Title)  
Supervisor: Burgert Ingo  
Co-Supervisor: Burgert Ingo  
ETH Zurich, Institut für Baustoffe Institut für Baustoffe ◆

**Vailati Chiara**

Convertible wood structures for architecture  
Supervisor: Burgert Ingo  
Co-Supervisor: Rüggeberg Markus  
ETH Zurich, Institut für Baustoffe ◆

**Vidiella del Blanco Marta Esther**

Functionalization of wood materials for smart filters in oil-water separation technology  
Supervisor: Burgert Ingo  
Co-Supervisor: Cabane Etienne  
ETH Zürich, Institut für Baustoffe ◆

**Vitas Selin**

Functionalization of wood materials for innovative application in filter technology  
Supervisor: Burgert Ingo  
Co-Supervisor: Cabane Etienne  
ETH Zürich, Institut für Baustoffe ◆

**Wang Yaru**

Wood modification by sol-gel derived inorganic nanoparticles  
Supervisor: Burgert Ingo  
Co-Supervisor: Cabane Etienne  
ETH Zürich, Institut für Baustoffe ◆

**Automotive Powertrain Technologies****Gianetti Giovanni**

CFD modeling of premixed methane combustion with focus on EGR and water injection  
Supervisor: Onorati Angelo  
Co-Supervisor: Soltic Patrik  
Politecnico di Milano, Italy, Dipartimento di Energia Motori a combustione iterna, Milano, IT ◆



## Automotive Powertrain Technologies

### Kammermann Thomas

Optical Diagnostics of Ignition and Early Flame Kernel Development in Hydrogen Enriched Methane Flames  
Supervisor: Boulouchos Konstantinos  
Co-Supervisor: Soltic Patrik  
ETH Zurich, Laboratorium für Aerothermochemie und Verbrennungssysteme ◆

### Liao Yujun

Heat transfer characteristics of spray impingement in mobile selective catalytic reduction systems  
Supervisor: Boulouchos Konstantinos  
Co-Supervisor: Dimopoulos Eggenschwiler Panayotis  
ETH Zurich, Laboratorium für Aerothermochemie und Verbrennungssysteme ○

### Nocivelli Lorenzo

CFD Modeling and Experimental Characterization of Urea/Water Solution Injection inside SCR systems of Diesel Engines  
Supervisor: Onorati Angelo  
Co-Supervisor: Dimopoulos Eggenschwiler Panayotis  
Politecnico di Milano, Italy, Dipartimento di Energia Motori a combustione interna Milano, IT ○

## 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, ◆

### Gontsarik Mark

Tailoring antimicrobial peptides for bacteria membrane destruction  
Supervisor: Yagmur Anan  
Co-Supervisor: Salentinig Stefan  
University of Copenhagen, 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, 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 ◆

### Straub Hervé

TBD  
Supervisor: Eberl Leo  
Co-Supervisor: Ren Qun  
Uni Zürich, Department of Plant and Microbial Biology ◆

### Valentin Jules

TBD  
Supervisor: van der Mei Henny  
Co-Supervisor: Ren Qun  
University of Groningen, Dep. of Biomedical Engineering, Groningen, NL ◆

### Weidenbacher Lukas

Development of a blood-compatible Membrane.  
Supervisor: Ferguson Stephen  
Co-Supervisor: Maniura Katharina/Fortunato Giuseppino

### 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 ◆

### Wiesli Matthias

Engineering of the immune Response of bone Substitute materials  
Supervisor: Martin Ivan  
Co-Supervisor: Maniura Katharina  
Uni Basel, Biomedizin Basel ◆

<b>Biointerfaces</b>	<p><b>Yazgan Gökce</b> 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</p>
<b>Biomimetic Membranes and Textiles</b>	<p><b>Armagan Efe</b> TBD Supervisor: Ozaydin-Ince Gozde Co-Supervisor: Toncelli Claudio Sabanci University, Istanbul, TR ◆</p>
	<p><b>Bösiger Peter</b> 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 ○</p>
	<p><b>Foroughan Mehrshad</b> Heat and moisture transport around the human body in complex environment Supervisor: Carmeliet Jan Co-Supervisor: Psituka Agnes ETH Zurich, Mechanical Engineering Dept. ◆</p>
	<p><b>Guan Manhao</b> 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 ◆</p>
	<p><b>Joshi Ankit</b> Moisture Management in clothing microclimate Supervisor: Bueno Marie-Ange Co-Supervisor: Psikuta Agnes ENSISA, ED 269 MSII, France, FR ◆</p>
	<p><b>Koelblen Barbara</b> 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, Department of Heating and Air Conditioning, Warsaw, PL ○</p>
	<p><b>Luo Jialuo</b> (not decided so far) Supervisor: Sorin Fabien Co-Supervisor: Boesel Luciano EPF Lausanne ◆</p>
	<p><b>MacRae Braid</b> 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 ◆</p>
	<p><b>Maurya Anjani Kumar</b> Unknown Supervisor: Petry Winfried Co-Supervisor: Rossi René TU München, Germany, Munich, DE ◆</p>
	<p><b>Morel Alexandre</b> Fiber-to-fiber interactions in electrospun mats Supervisor: Ferguson Stephen Co-Supervisor: Spano Fabrizio ETH Zürich, Institute for Biomechanics ◆</p>
	<p><b>Sicher Alba</b> TBD Supervisor: Dufresne Eric Co-Supervisor: Spano Fabrizio ETH Zurich ◆</p>
	<p><b>Ulrich Sebastian</b> Photo- and magneto-switchable membranes Supervisor: Bruns Nico Co-Supervisor: Boesel Luciano Uni FR, Adolphe Merkle ◆</p>
	<p><b>Weidenbacher Lukas</b> Development of a blood-compatible membrane Supervisor: Ferguson Stephen Co-Supervisor: Fortunato Giuseppino ETH Zürich, Dept. of Health Sciences and Technology ◆</p>

<b>Biomimetic Membranes and Textiles</b>	<p><b>Yazgan Gökçe</b>            Electrospinning for scaffolds            Supervisor: Zenobi-Wong Marcy            Co-Supervisor: Maniura Katharina            ETH Zürich, Dept. of Health Sciences and Technology ○</p>
<b>Building Energy Materials and Components</b>	<p><b>Civioc Romain</b>            Silica-carbon aerogels            Supervisor: Lattuada Marco            Co-Supervisor: Koebel Matthias            Uni FR, Uni FR, Chemistry Dept.t ◆</p>
	<p><b>Guerrero Natalia</b>            Urea based polyurea            Supervisor: Lattuada Marco            Co-Supervisor: Koebel Matthias            Uni FR, Uni FR, Chemistry Dept.t ◆</p>
	<p><b>Iswar Subramaniam</b>            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 Prof. Marco            Co-Supervisor: Koebel Matthias            Uni FR, Uni FR, Chemistry Dept. ○</p>
<b>Center for X-ray Analytics</b>	<p><b>Iranpour Neda</b>            Nano-X: Synthesis and dynamical in-situ X-ray diffraction and scattering studies on advanced fiber systems and functional crystalline matter            Supervisor: Dommann Alex            Co-Supervisor: Neels Antonia            Uni Bern, Uni BE ◆</p>
	<p><b>Liu Yu</b>            TBD            Supervisor: Wegener Konrad            Co-Supervisor: Flisch Alexander            ETH Zurich, Institut für Werkzeugmaschine und Fertigung ◆</p>
	<p><b>Maurya Anjani</b>            TBD            Supervisor: Dommann Alex            Co-Supervisor: Neels Antonia</p>
	<p><b>Shakoorioskooie Mahdih</b>            TBD            Supervisor: Lura Pietro            Co-Supervisor: Kaufmann Rolf</p>
	<p><b>Stritt Carina</b>            TBD            Supervisor: Löliger Hans-Andrea            Co-Supervisor: Flisch Alexander            ETH Zürich, Institut für Signal und Informationverarbeitung ◆</p>
<b>Concrete/Construction Chemistry</b>	<p><b>Barzgar Sonya</b>            CASHII: complexation            Supervisor: Ludwig Christian            Co-Supervisor: Lothenbach Barbara            EPF Lausanne, School of Architecture, Civil and Environmental Engineering ◆</p>
	<p><b>Bernard Ellina</b>            Magnesium silicate hydrates (M-S-H)            Supervisor: Pochard Isabelle            Co-Supervisor: Lothenbach Barbara            Universite de Bourgogne, Dijon ○</p>
	<p><b>Di Giacomo Alessio</b>            CASHII: Al-binding            Supervisor: Scrivener Karen            Co-Supervisor: Lothenbach Barbara            EPF Lausanne, LMC ◆</p>
	<p><b>Ghourchian Sadegh</b>            Plastic shrinkage cracking in concrete: from mechanisms to mitigation strategies            Supervisor: Lura Pietro            Co-Supervisor: Wyrzykowski Mateusz            ETH Zurich, Institut für Baustoffe ◆</p>
	<p><b>Hu Zhangli</b>            Autogenous shrinkage in blended cement systems            Supervisor: Scrivener Karen            Co-Supervisor: Lura Pietro            EPF Lausanne, LMC ○</p>

<b>Concrete/Construction Chemistry</b>	<p><b>Manzini Andrea</b> Thermodynamic and spectroscopic investigations of the Fe and S speciation under reducing conditions Supervisor: Wehrli Bernhard Co-Supervisor: Lothenbach Barbara ETH Zürich, Umweltwissenschaften ◆</p>	
	<p><b>Nedyalkova Latina</b> 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 Uni Bern, Geology ◆</p>	
	<p><b>Shakoori Oskooie Mahdih</b> TBD Supervisor: Lura Pietro Co-Supervisor: Griffa Michele ETH Zurich, Institute for Building Materials, Dept. of Civil, Environmental and Geomatic Engineering ◆</p>	
	<p><b>Stöckli Anne-Christin</b> Linear and nonlinear ultrasounds methods for non-destructive and systematic characterization of concrete durability properties Supervisor: Lura Pietro Co-Supervisor: Griffa Michele ETH Zurich, Institute for Building Materials, Dept. of Civil, Environmental and Geomatic Engineering, Berlin, DE ◆</p>	
	<p><b>Yang Fei</b> Multi-contrast X-ray imaging of water and microstructure in cement-based materials Supervisor: Lura Pietro Co-Supervisor: Griffa Michele ETH Zurich, Institut für Baustoffe ○</p>	
<b>Electron Microscopy Center</b>	<p><b>Bologna Nicolas</b> TBD Supervisor: Fontcuberta Anna Co-Supervisor: Rossell Marta D. EPF Lausanne, Laboratory of Semiconductor Materials ◆</p>	
	<p><b>Kozak Roksolana</b> TBD Supervisor: Bona Gian-Luca Co-Supervisor: Rossell Marta D. ETH Zurich, Dept. of Information Technology and Electrical Engineering ◆</p>	
<b>Functional Polymers</b>	<p><b>Abdolhosseinzadeh Sina</b> Inorganic Inks for high-precision printing of TFTs Supervisor: Nüesch Frank Co-Supervisor: Heier Jakob EPF Lausanne, EPF Lausanne ◆</p>	
	<p><b>Anantharaman Surendra Babu</b> 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 ◆</p>	
	<p><b>Caspari Philip</b> High permittivity siloxanes in the application of dielectric elastomer generators Supervisor: Nüesch Frank Co-Supervisor: Opris Dorina ETH Zürich, Chemistry or Polymer Chemistry ◆</p>	
	<p><b>Diethelm Matthias</b> Transient Phenomena in Salt Semiconductor Devices Supervisor: Nüesch Frank Co-Supervisor: Hany Roland EPF Lausanne, EPF Lausanne ◆</p>	
	<p><b>Dünki Simon</b> Silicones with enhanced permittivity for dielectric elastomer actuators Supervisor: Nüesch Frank Co-Supervisor: Opris Dorina EPF Lausanne, Chemistry or Polymer Chemistry ○</p>	
	<p><b>Gesevicius Donatas</b> 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 ◆</p>	

Functional Polymers	<p><b>Jenatsch Sandra</b> Dynamics of Electronic and Ionic Charges in Cyanine Organic Semiconductor Devices Supervisor: Nüesch Frank Co-Supervisor: Hany Roland EPF Lausanne, Chemistry or Polymer Chemistry ○</p>
	<p><b>Ko Yee Song</b> Smart materials for artificial muscle and energy harvesting Supervisor: Nüesch Frank Co-Supervisor: Opris Dorina EPF Lausanne, Chemistry or Polymer Chemistry ○</p>
	<p><b>Leclaire Nicolas</b> Spatial and morphological growth control of cyanine dye crystals Supervisor: Nüesch Frank Co-Supervisor: Heier Jakob EPF Lausanne, Materials Science and Engineering ◆</p>
High Performance Ceramics	<p><b>Sheima Yauhen</b> Novel silicones for artificial muscles: from synthesis to applications Supervisor: Frauenrath Holger Co-Supervisor: Opris Dorina EPF Lausanne, EPF Lausanne ◆</p>
	<p><b>Hadian Amir</b> Synthesis and characterization of NbC – Fe based cemented carbide Supervisor: Zamani Cyrus Co-Supervisor: Clemens Frank University of Tehran, College of Engineering, Tehran, IR ◆</p>
	<p><b>Naikade Manoj</b> 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 ◆</p>
	<p><b>Ozog Paulina</b> KTI Projekt: Herstellung hochwertiger Aluminiumnitrid-basierter Keramiken aus verbrennungsbasierter Direktsynthese von nanoskaligen AlN-Pulvern – ALUMNI Supervisor: Darius Kata Co-Supervisor: Graule Thomas AGH University of Science and Technology, Cracow, PL, AGH University of Science and Technology, Krakow, PL ◆</p>
	<p><b>Pfeiffer Stefan</b> Selective Laser Melting of oxide based ceramics Supervisor: Aneziris Christos G. Co-Supervisor: Graule Thomas TU Freiberg, DE, TU Bergakademie Freiberg, Freiberg, DE ◆</p>
	<p><b>Top Jens</b> Molecular and physical aspects of dye sensitization of photoelectrodes with copper-based sensitizer molecules. SNF Verfügung: IZKSZ2_162232 Supervisor: Housecroft Catherine E. Co-Supervisor: Braun Artur Uni Basel, Dept. Chemistry ◆</p>
Joining Technologies and Corrosion	<p><b>Bulthaupt Lars</b> 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) ◆</p>
	<p><b>Ilic Emilija</b> Predicting deterioration phenomena at coating/implant interfaces in vivo Supervisor: Mischler Stefano Co-Supervisor: Hauert Roland EPF Lausanne, Institut des Matériaux IMX, Lausanne ◆</p>
	<p><b>Philipp Natzke</b> TBD Supervisor: Grossner Ulrike Co-Supervisor: Janczak-Rusch Jolanta. ETH Zurich, APS ◆</p>
	<p><b>Bay Marie-Claude</b> <math>\beta'</math>-alumina electrolytes for enhanced electrical and mechanical performance of sodium nickel chloride batteries Supervisor: Vogt Ulrich Co-Supervisor: Vogt Ulrich Albert-Ludwigs-Universität Freiburg, Institute of Crystallography, Freiburg im Breisgau, DE ◆</p>

<b>Materials for Energy Conversion</b>	<p><b>Duchêne Léo</b> TBD Supervisor: Hagemann Hans Co-Supervisor: Remhof Arndt Uni GE, Dept. of Physical Chemistry ◆</p>
	<p><b>Pagani Francesco</b> TBD Supervisor: Rupp Jennifer Co-Supervisor: Battaglia Corsin ETH Zürich, Dept. of Materials ◆</p>
	<p><b>Reber David</b> TBD Supervisor: Nüesch Frank Co-Supervisor: Battaglia Corsin EPF Lausanne, Materials Science and Engineering ◆</p>
<b>Mechanical Integrity of Energy Systems</b>	<p><b>Chen Zhen</b> High temperature fracture mechanics investigations Supervisor: Mazza Edoardo Co-Supervisor: Holdsworth Stuart ETH Zürich, Insitut für Mechanische Systeme ◆</p>
	<p><b>Domaschke Sebastian</b> Mechanical Interactions in fibrous networks Supervisor: Mazza Edoardo Co-Supervisor: Ehret Alexander ETH Zürich, Institute for Mechanical Systems ◆</p>
	<p><b>Flores Parra Edgar Alejandro</b> Effect of periodic, interconnected piezoelectric elements on wave propagation and vibration properties of structures Supervisor: Ermanni Paolo Co-Supervisor: Bergamini Andrea ETH Zurich, Institute for Mechanical Systems ◆</p>
	<p><b>Kuravi Ramachandra</b> Meso-scale analysis and modelling of soft musculoskeletal tissues Supervisor: Mazza Edoardo Co-Supervisor: Ehret Alexander ETH Zurich, Institute for Mechanical Systems ◆</p>
	<p><b>Li Xiaolong</b> Physical-microstructurally based modelling of primary creep persistency Supervisor: Mazza Edoardo Co-Supervisor: Hosseini Ehsan ETH Zurich, Institute for Mechanical Systems ◆</p>
	<p><b>Schillai Kilian</b> Fretting Fatigue of high voltage conductors Supervisor: Mazza Edoardo Co-Supervisor: Holdsworth Stuart ETH Zürich, Insitut für Mechanische Systeme ◆</p>
	<p><b>Schmied Jascha</b> Integrated Multi-field Metamaterial Damping Supervisor: Ermanni Paolo Co-Supervisor: Bergamini Andrea ETH Zürich, Institute for Mechanical Systems ◆</p>
	<p><b>Testoni Oleg</b> Investigation of structural connectivity as a design element in lightweight structures Supervisor: Ermanni Paolo Co-Supervisor: Bergamini Andrea ETH Zürich, Institute for Mechanical Systems ◆</p>
<b>Mechanical Systems Engineering</b>	<p><b>Byrne Ryan</b> Combining multi-body modeling with finite element modeling to study the machanics of lumbar motion during dynamic functional tasks Supervisor: Zhang Xudong Co-Supervisor: Aiyangar Ameet University of Pittsburgh, Mechanical Engineering &amp; Materials Science, Pittsburgh, US ◆</p>
	<p><b>Chakraborty Souvik</b> Interface and load transfer in carbon (nanoparticle) based epoxy composites Supervisor: Chakraborty Amit K. Co-Supervisor: Barbezat Michel NITD, Dept. of Physics, Durgapur IN ◆</p>

<b>Mechanical Systems Engineering</b>	<p><b>Cornaz Frédéric Jean-Pierre</b>            Intraoperative tissue analysis using radio frequency plasma spectroscopy            Supervisor: Meyer Dominik            Co-Supervisor: Valet Sebastian/Weisse Bernhard            Uni Zürich, Medizinische Fakultät ◆</p>
	<p><b>Lämmlein Tobias</b>            Bond of HM-CFRP tendons in HPC beams            Supervisor: Lura Pietro            Co-Supervisor: Terrasi Giovanni            ETH Zürich, Institut für Baustoffe – Dept. of Civil, Environmental and Geomatic Engineering ◆</p>
	<p><b>Stankovic Danjiela</b>            Fretting fatigue of CFRP loops on CFRP pins            Supervisor: Bisby Luke            Co-Supervisor: Terrasi Giovanni            University of Edinburgh, Institute for Infrastructure and Environment, Edinburgh, UK ◆</p>
	<p><b>Tomasikova Zuzana</b>            Hierarchical carbon-fiber composites with tailored interphase obtained via electrophoretic deposition of magnetized and functionalized carbon nanotubes            Candidate decided to withdraw from PhD project in August 2017            Supervisor: Studart André            Co-Supervisor: Brunner Andreas J.            ETH Zurich, Dept. of Materials ◆</p>
<b>Mechanics of Materials and Nanostructures</b>	<p><b>Berger Luisa</b>            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 Dept. ◆</p>
	<p><b>Bertero Enrico</b>            Electrodeposition of stainless steel micro-components in UV-LIGA moulds            Supervisor: Mischler Stefano            Co-Supervisor: Michler Johann            EPF Lausanne, Tribology and Interfacial Chemistry Group ◆</p>
	<p><b>Casari Daniele</b>            Micromechanical Properties of Bone            Supervisor: Zysset Philippe            Co-Supervisor: Michler Johann            Uni Bern, Institute of Surgical Technology and Biomechanics ◆</p>
	<p><b>Guerra Nuñez Carlos</b>            Atomic Layer Deposition for Energy Conversion Applications            Supervisor: Park Hyung GyuIvo            Co-Supervisor: Utke Ivo            ETH Zürich, Dept. of Mechanical and Process Engineering ◆</p>
	<p><b>Jurczyk Jakub</b>            Focused Electron Beam Induced Deposition using low vapour pressure compounds (ELENA ITN project)            Supervisor: Utke Ivo            Co-Supervisor: Kapusta Czeslaw            AGH University of Science and Technology, Cracow, PL, Dept. of Solid State Physics ◆</p>
	<p><b>Mieszala Maxime</b>            Mechanical properties of 3D metallic architected materials            Supervisor: Supervisor Mischler Stefano            Co-Supervisor: Philippe Laetitia            EPF Lausanne, Materials Science Dept. ◆</p>
	<p><b>Pip Petai</b>            synthesis and characterisation of magnetic metamaterials            Supervisor: Heydermann Laura            Co-Supervisor: Philippe Laetitia            ETH Zurich, Dept. of Materials ◆</p>
	<p><b>Schürch Patrik</b>            Creation of 2D and 3D nanostructures for photovoltaic devices and mechanical testing            Supervisor: Nüesch Frank            Co-Supervisor: Philippe Laetitia            EPF Lausanne, Materials Science Dept. ◆</p>
	<p><b>Thomas Keith</b>            Combinatorial studies of mechanical properties of multilayer thin films            Supervisor: Spolenak Ralph            Co-Supervisor: Michler Johann            ETH Zurich, Materials Science Dept. ◆</p>

<b>Mechanics of Materials and Nanostructures</b>	<b>Wehrs Juri</b> Mechanical properties of tailored nanostructured alloys produced by electrodeposition Supervisor: Mischler Stefano Co-Supervisor: Michler Johann EPF Lausanne, Materials Science Dept. ○
<b>Multiscale Studies in Building Physics</b>	<b>Ashrafi Habibabadi Amir</b> Advancing the knowledge of water droplet behavior and film forming on porous materials Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zurich, Dept. of Mechanical and Process Engineering ◆
	<b>Berry Tarl</b> 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, Dept. of Horticultural Science, Stellenbisch, SA ◆
	<b>Chen Mingyang</b> Sorption induced deformations of microporous material. Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zurich, Dept. of Mechanical and Process Engineering ◆
	<b>Dorostkar Omid</b> Numerical Modeling of frictional behavior of saturated fault gouge: insights toward earthquake triggering. Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zurich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	<b>Duan Ran</b> TBD Supervisor: Carmeliet Jan Co-Supervisor: Kubilay Aytaç ETH Zurich, Dept. of Mechanical and Process Engineering ◆
	<b>Fischer Robert</b> TBD Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zurich, Dept. of Mechanical and Process Engineering ◆
	<b>Ito Parada Marcelo</b> The physics of wicking of textiles Supervisor: Carmeliet Jan Co-Supervisor: Derome Dominique ETH Zurich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	<b>Lemrich Laure</b> 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 Zurich, Dept. of Civil, Environmental and Geomatic Engineering ◆
	<b>Manickathan Lento</b> 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 ◆
	<b>Mussetti Gianluca</b> TBD Supervisor: Carmeliet Jan Co-Supervisor: Brunner Dominik
	<b>Piroozmand Pasha</b> Bridging the gap between mesoscale and urban microclimate simulations Supervisor: Carmeliet Jan Co-Supervisor: Allegrini Jonas ETH Zurich, Dept. of Mechanical and Process Engineering ◆
	<b>Prawiranto Kevin</b> Solardrying of soft cellular materials: a multiscale approach. Supervisor: Carmeliet Jan Co-Supervisor: Defraeye Thijs ETH Zürich, Dept. of Civil, Environmental and Geomatic Engineering ◆



Multiscale Studies in Building Physics	<p><b>Qin Feifei</b>            LB Modelling of colloid drying            Supervisor: Carmeliet Jan            Co-Supervisor: Derome Dominique            ETH Zurich, Dept. of Mechanical and Process Engineering ◆</p>	
	<p><b>Rogge Seppe</b>            Geometric modelling of fruit based on X-ray CT images            Supervisor: Nicolai Bart            Co-Supervisor: Defraeye Thijs            KU Leuven, Dept. of Biosystems Leuven, BE ◆</p>	
	<p><b>Shah Jiggar</b>            Vegetation as an urban heat island mitigation strategy            Supervisor: Carmeliet Jan            Co-Supervisor: Allegrini Jonas            ETH Zurich, Dept. of Mechanical and Process Engineering ◆</p>	
	<p><b>Tagliavini Giorgia</b>            Convective cooling of heat-sensitive products organised in macro-porous assemblies: a novel conjugate method            Supervisor: Carmeliet Jan            Co-Supervisor: Defraeye Thijs            ETH Zurich, Dept. of Mechanical and Process Engineering ◆</p>	
	<p><b>Tsalicoglou Christina</b>            TBD            Supervisor: Carmeliet Jan            Co-Supervisor: Allegrini Jonas            ETH Zurich, Dept. of Mechanical and Process Engineering ◆</p>	
	<p><b>Zhang Chi</b>            Multiscale Modelling of wood cell S2 layer: Understanding wood swelling and moisture-induced shape memory.            Supervisor: Carmeliet Jan            Co-Supervisor: Derome Dominique            ETH Zurich, Dept. of Mechanical and Process Engineering ◆</p>	
	Nanoscale Materials Science	<p><b>Fischer Maria</b>            Al-based Oxynitride Coatings            Supervisor: Hug Hans Josef            Co-Supervisor: Thorwarth Kerstin            Uni Basel, Dept. Physics ◆</p>
		<p><b>Gehrig Jeffrey</b>            Stochastic Motion of Molecules adsorbed on single crystalline surfaces            Supervisor: Hug Hans J.            Co-Supervisor: Hug Hans J.            Uni Basel, Dept. Physics ◆</p>
<p><b>Kawecki Maciej</b>            Sub-micrometre-scale 3D Chemical Characterization of Organic and Biological Materials            Supervisor: Hug Hans J.            Co-Supervisor: Bernard Laetitia            Uni Basel, Dept. Physics ◆</p>		
<p><b>Li Jingyi</b>            Chemistry of functional molecules at metal surfaces            Supervisor: Ernst Karl-Heinz            Co-Supervisor: Ernst Karl-Heinz            Uni Zürich, Dept. Chemistry ○</p>		
<p><b>Mairena Anais</b>            Chiral molecules at surfaces            Supervisor: Ernst Karl-Heinz            Co-Supervisor: Ernst Karl-Heinz            Uni Zürich ◆</p>		
<p><b>Rieger Alexandra</b>            Physical properties of buckybowls for            Supervisor: Ernst Karl-Heinz            Co-Supervisor: Ernst Karl-Heinz            Uni Zürich ◆</p>		
<p><b>Srivastava Gitika</b>            Molecular machines            Supervisor: Ernst Karl-Heinz            Co-Supervisor: Ernst Karl-Heinz            Uni Zürich ◆</p>		
<p><b>Trant Mathis</b>            Plasma Parameters and Particle fluxes during Deposition of Transparent Hard Coatings            Supervisor: Hug Hans Josef            Co-Supervisor: Thorwarth Kerstin            Uni Basel, Dept. Physics ◆</p>		

<b>Nanoscale Materials Science</b>	<p><b>Zhao Xue</b>  Magnetization reversal mechanism in strongly Exchange-coupled double layers of Co/Pt and TbFe  Supervisor: Hug Hans J.  Co-Supervisor: Hug Hans J.  Uni Basel, Dept. Physics ◆</p>
<b>nanotech@surfaces</b>	<p><b>Deniz Okan</b>  Oxide Intercalation for Electronic Decoupling of Graphene Nano Ribbons on Metal Substrates  Supervisor: Greber Thomas  Co-Supervisor: Fasel Roman/Ruffieux Pascal  Uni Zürich, Dept. Physics ○</p>
	<p><b>Eimre Kristjan</b>  Novel challenges in the synthesis of carbon based nanostructures  Supervisor: Hutter Juerg  Co-Supervisor: Pignedoli Carlo  Uni Zürich, Dept. of Chemistry ◆</p>
	<p><b>Kinikar Amogh</b>  TBD  Supervisor: Gambardella Pietro  Co-Supervisor: Fasel Roman/Ruffieux Pascal  ETH Zurich, Dept. of Materials ◆</p>
	<p><b>Mishra Shantanu</b>  Electronic &amp; magnetic properties of open-Shell graphene nanostructures  Supervisor: Greber Thomas  Co-Supervisor: Ruffieux Pascal  Uni Zürich, Physik Institut ◆</p>
	<p><b>Popoff Youri</b>  TBD  Supervisor: Luisier Mathieu  Co-Supervisor: Gröning Oliver  ETH Zurich, Dept. of Information Technology and Electrical Engineering ◆</p>
	<p><b>Stolz Samuel</b>  Chiral Intermetallic Surfaces for Enantioselective Reactions  Supervisor: Brune Harald  Co-Supervisor: Widmer Roland  EPF Lausanne ◆</p>
	<p><b>Yakutovich Aliaksandr</b>  Atomistic investigation of the enantioselectivity of PdGa surfaces  Supervisor: Hutter Juerg  Co-Supervisor: Passerone Daniele  Uni Zürich, Dept. of Chemistry ○</p>
<b>Particles-Biology Interactions</b>	<p><b>Aengenheister Leonie</b>  Establishment and use of a perfused Transwell model to study nanoparticle-placenta interactions  Supervisor: Sturla Shana J.  Co-Supervisor: Buerki Tina Wick Peter  ETH Zurich, Department of Health Sciences and Technology (D-HEST) ◆</p>
	<p><b>Anthis Alexandre</b>  TBD  Supervisor: tba  Co-Supervisor: Herrmann Inge  tba ◆</p>
	<p><b>Hempt Claudia</b>  Establishment and use of an advanced in vitro model to study nanomaterial-intestinal barrier interactions  Supervisor: Sturla Shana  Co-Supervisor: Buerki-Thurnherr Tina/Wick Peter  ETH Zurich, Dept. of Health Sciences and Technology ◆</p>
	<p><b>Iranpour Anaraki Neda</b>  TBD  Supervisor: Dommann Alex  Co-Supervisor: Wick Peter/Hirsch Cordula  Uni Bern, tba ◆</p>
	<p><b>Keevend Kerda</b>  Correlative cathodoluminescence electron microscopy bioimaging  Supervisor: Grange Rachel  Co-Supervisor: Herrmann Inge  ETH Zurich, Dept. of Physics ◆</p>

<b>Particles-Biology Interactions</b>	<p><b>Korejwo Daria</b> Interaction of graphene related materials and abraded materials from reinforced nanocomposites with in vitro lung models Supervisor: Rothen-Rutishauser Barbara Co-Supervisor: Buerki Tina/Wick Peter Uni FR, Adoplphe Merkle Institute ◆</p>
	<p><b>Matter Martin</b> Bioactive Nanoparticles for Surgical Applications Supervisor: Pratsinis Sotiris E. Co-Supervisor: Herrmann Inge ETH Zurich, Dept. of Mechanical and Process Engineering ◆</p>
	<p><b>May Sarah</b> Nanogenotoxicology and DNA repair mechanisms Supervisor: Bürkle Alexander Co-Supervisor: Hirsch Cordula/Wick Peter Uni Konstanz, Molecular Toxicology Group, Konstanz, DE ◆</p>
<b>Road Engineering/Sealing Components</b>	<p><b>Celma Cervera Carlos</b> Mechanics of stone-based infrastructure materials at large deformations Supervisor: Partl Manfred Co-Supervisor: Jelagin Denis KTH Royal Institute of Technology, ABE/Architecture and the Built Environment, Stockholm, SE ◆</p>
	<p><b>Conzelmann Nicholas</b> High Performance Aggregates for Sustainable Road Pavements Supervisor: Müller Christoph Co-Supervisor: Poulidakos Lily ETH Zürich, D-MAVT Laboratory for Energy Science and Engineering ◆</p>
	<p><b>Ghafooriroozbahany Ehsan</b> Flow behaviour of asphalt mixtures under simulated compaction Supervisor: Partl Manfred Co-Supervisor: Jelagin Denis KTH Royal Institute of Technology, ABE/ Architecture and the Built environment, Stockholm, SE ◆</p>
	<p><b>Jeffroy Etienne</b> Magnetically Triggered Crack Healing of Asphalt Pavements Supervisor: Studart André Co-Supervisor: Partl Manfred ETH Zürich, Complex Materials ◆</p>
<b>Structural Engineering</b>	<p><b>Dauti Dorjan</b> A combined experimental and numerical approach to spalling of concrete in high temperature Supervisor: Dal Pont/Weber Stefano/Benedikt Co-Supervisor: Weber Benedikt Université Grenoble Alpes, Laboratory 3SR, France, FR ◆</p>
	<p><b>Doroudi Yashar</b> Dynamic effect of transition zone and rail corrugation on the bridge response Supervisor: Fernando Dilum Co-Supervisor: Ghafoori Elyas The University of Queensland, School of Civil Engineering, Brisbane, AU ◆</p>
	<p><b>Ehrhart Thomas</b> Homogenes und kombiniertes Buchen-Brettschichtholz: Technische Grundlagen zur Marktimplementierung als Bauprodukt für Biegeträger und Stützen Supervisor: Frangi Andrea Co-Supervisor: Steiger René ETH Zurich, Institut für Baustatik und Konstruktion ◆</p>
	<p><b>Harmanci Yunus Emre</b> Long-term Resistance of Gradient Anchorage for Prestressed CFRP Strips in Structural Concrete Retrofitting' (LoReGra) Supervisor: Chatzi Eleni Co-Supervisor: Michels Julien ETH Zurich, Institute of Structural Engineering ◆</p>
	<p><b>Heydarinouri Hossein</b> Fatigue Strengthening of Metallic Bridge Connections using pre-stressed CFRP Laminates Supervisor: Nussbaumer Alain Co-Supervisor: Motavalli Masoud/ Ghafoori Elyas EPF Lausanne, Resilient Steel Structures Laboratory RESSLab ◆</p>
	<p><b>Hosseini Ardalan</b> Mixed-mode fatigue strengthening of metallic members using CFRP plates Supervisor: Nussbaumer Alain Co-Supervisor: Motavalli Masoud/ Ghafoori Elyas EPF Lausanne, EPF Lausanne, Steel Structures Laboratory ICOM ◆</p>

<b>Structural Engineering</b>	<p><b>Izadi Mohammadreza</b> Retrofitting Fatigue prone connections in steel bridges using pre-stressed advanced materials Supervisor: Motavalli/Maalek Masoud/Shahrokh Co-Supervisor: Motavalli Masoud/ Ghafoori Elyas University of Tehran, School of Civil Engineering, Tehran, IR ◆</p>
	<p><b>Jalsan Khash-Erdene</b> Wireless Sensor Network Planning for Structural Health Monitoring Supervisor: Martinoli Alcherio Co-Supervisor: Feltrin Glauco EPF Lausanne, EPF Lausanne, School of Architecture, Civil and Environmental Engineering ◆</p>
	<p><b>Li Weijie</b> Study of the tensile behaviour of CFRP-steel composite system Supervisor: Lu Yiyang Co-Supervisor: Motavalli Masoud/ Ghafoori Elyas Wuhan University, School of Civil Engineering, Wuhan, CN ◆</p>
	<p><b>Moshiri Niloufar</b> Bond behavior of prestressed CFRP to concrete using externally bonded reinforcement on groove (EBROG) method Supervisor: Davood Mostofinejad Co-Supervisor: Czaderski Christoph Isfahan University of Technology (IUT), Structural Engineering, Isfahan, IR ◆</p>
<b>Technology and Society</b>	<p><b>Schranz Bernhard</b> Modeling of RC members strengthened and prestressed by a novel iron-based shape memory alloy reinforcement Supervisor: Vogel Thomas Co-Supervisor: Czaderski Christoph/Shahverdi Moslem ETH Zurich, Institut für Baustatik und Konstruktion, ETH Zürich ◆</p>
	<p><b>Bornhöft Nikolaus</b> A Dynamic Probabilistic Material Flow Modeling Method for Environmental Exposure Assessment Supervisor: Hilty Lorenz Co-Supervisor: Nowack Bernd Uni Zürich, Dept. of Informatics ○</p>
	<p><b>Caballero Alejandro</b> Environmental exposure of nanomaterials: Methodological improvement and new predictions Supervisor: Nowack Bernd Co-Supervisor: Nowack Bernd ETH Zurich, Dept. of Environmental Systems Science ○</p>
	<p><b>Cai Yaping</b> A mechanistic study of microfiber release from synthetic textiles Supervisor: Nowack Bernd Co-Supervisor: Nowack Bernd ETH Zurich, Dept. of Environmental Systems Science ◆</p>
	<p><b>Holm Stefan</b> Developing an Agent-based Model of the Swiss Wood Market (working title) Supervisor: Hilty Lorenz Co-Supervisor: Uni Zürich, Dept. of Informatics ◆</p>
	<p><b>Kolpondinos (-Huber) Martina</b> 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 Uni Zürich, Dept. of Informatics ◆</p>
	<p><b>Müller Sandra</b> Development of a framework for the classification and evaluation of urban mines Supervisor: Williams Ian Co-Supervisor: Wäger Patrick University of Southampton, Centre for Environmental Sciences, Southampton, UK ◆</p>
	<p><b>Reinhard Jürgen</b> Computational Frameworks to Increase Effectiveness and Efficiency of Data Collection in Life Cycle Assessment Supervisor: Hilty Lorenz Co-Supervisor: Uni Zürich, Dept. of Informatics ○</p>
	<p><b>Restrepo Eliette</b> Towards an Optimal Recovery of Critical Metals from End of Life Vehicles Supervisor: Müller Daniel Co-Supervisor: Wäger Patrick/Widmer Rolf Norwegian Institute of Science and Technology, Department of Energy and Process Engineering, Trondheim, NO ◆</p>

<b>Technology and Society</b>	<p><b>Wang Yan</b>  Material flow modeling and environmental risk assessment of nanomaterials  Supervisor: Nowack Bernd  Co-Supervisor: Nowack Bernd  ETH Zurich, Dept. of Environmental Systems Science ○</p>
	<p><b>Wenger Delphine</b>  Modeling the flows of microplastics in the environment  Supervisor: Nowack Bernd  Co-Supervisor: Nowack Bernd  ETH Zurich, Dept. of Environmental Systems Science ◆</p>
<b>Thin Films and Photovoltaics</b>	<p><b>Andres Christian</b>  TBD  Supervisor: Tiwari Ayodhya Nath  Co-Supervisor: Romanyuk Yaroslav  ETH Zürich ◆</p>
	<p><b>Avancini Enrico</b>  TBD  Supervisor: Tiwari Ayodhya Nath  Co-Supervisor: Buecheler Stephan  ETH Zurich, Dept. of Information Technology and Electrical Engineering ◆</p>
	<p><b>Bissig Benjamin</b>  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 ◆</p>
	<p><b>Bolat Sami</b>  TBD  Supervisor: Tiwari Ayodhya  Co-Supervisor: Romanyuk Yaroslav  ETH Zurich ◆</p>
	<p><b>Cabas Vidani Antonio</b>  TBD  Supervisor: Tiwari Ayodhya  Co-Supervisor: Romanyuk Yaroslav  ETH Zurich ◆</p>
	<p><b>Dubey Romain</b>  TBD  Supervisor: Kovalenko Maksym  Co-Supervisor: Kravchyk Kostiantyn  ETH Zurich, Dept. of Chemistry and Applied Biosciences ◆</p>
	<p><b>Feurer Thomas</b>  still open  Supervisor: Tiwari Ayodhya Nath  Co-Supervisor: Buecheler Stephan  ETH Zurich, Dept. of Information Technology and Electrical Engineering ◆</p>
	<p><b>Fu Fan</b>  Perovskite-CIGS Tandem Solar Cell  Supervisor: Tiwari Ayodhya Nath  Co-Supervisor: Buecheler Stephan  ETH Zurich, Dept. of Information Technology and Electrical Engineering ○</p>
	<p><b>Fuchs Peter</b>  Chemical bath deposition of transparent conductive zinc oxide thin films for solar cell applications  Supervisor: Tiwari Ayodhya Nath  Co-Supervisor: Romanyuk Yaroslav  ETH Zurich, Dept. of Information Technology and Electrical Engineering ○</p>
	<p><b>Guntlin Christoph</b>  TBD  Supervisor: Kovalenko Maksym  Co-Supervisor: Kovalenko Maksym  ETH Zürich, Departement Chemie und Angewandte Biowissenschaften ◆</p>
	<p><b>Haass Stefan</b>  Alkali Treatment of solution processed kesterite solar cells  Supervisor: Tiwari Ayodhya Nath  Co-Supervisor: Romanyuk Yaroslav  ETH Zurich, Dept. of Information Technology and Electrical Engineering ○</p>
	<p><b>Lingg Martina</b>  TBD  Supervisor: Tiwari Ayodhya Nath  Co-Supervisor: Perrenoud Julian  ETH Zurich ◆</p>

<b>Thin Films and Photovoltaics</b>	<p><b>Löckinger Johannes</b> TBD Supervisor: Tiwari Ayodhya Co-Supervisor: Romanyuk Yaroslav ETH Zurich ◆</p>
	<p><b>Moser Thierry</b> TBD Supervisor: Tiwari Ayodhya Co-Supervisor: Bücheler Stephan ETH Zurich ◆</p>
	<p><b>Pisoni Stefano</b> TBD Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Buecheler Stephan ETH Zurich ◆</p>
	<p><b>Rawlence Michael</b> Solid state electrolyte and thin film cathod materials for battery application Supervisor: Tiwari Ayodhya Nath Co-Supervisor: Buecheler Stephan ETH Zurich, Dept. of Materials ◆</p>
	<p><b>Sastre Pellicer Jordi</b> TBD Supervisor: Tiwari Ayodhya Co-Supervisor: Bücheler Stephan ETH Zurich ◆</p>
<b>Transport at Nanoscale Interfaces</b>	<p><b>Wang Shutato</b> TBD Supervisor: Kovalenko Maksym Co-Supervisor: Kovalenko Maksym ETH Zürich, Dept. für Chemie und Angewandte Biowissenschaften ◆</p>
	<p><b>Braun Oliver</b> Thermoelectric Effects in Nanoscale Devices Supervisor: Zardo Ilaria Co-Supervisor: Calame Michel Uni Basel ◆</p>
	<p><b>Butti Pascal</b> Graphene three-terminal nanojunction rectifiers Supervisor: Ensslin Klaus Co-Supervisor: Sennhauser Urs ETH Zurich ○</p>
	<p><b>El Abbassi Maria</b> Study of graphene based molecular junctions. Supervisor: Calame Michel Co-Supervisor: Calame Michel Uni Basel ◆</p>
	<p><b>Gagnidze Tornike</b> Dielectric enhancement for high DC cuprat super conductors Supervisor: Bona Gian-Luca Co-Supervisor: La Mattina Fabio ETH Zürich ◆</p>
	<p><b>Grotevent Matthias</b> Ultrasensitive quantum dot-graphene infrared detector arrays Supervisor: Kovalenko Maxim Co-Supervisor: Shorubalko Ivan ETH Zurich ◆</p>
	<p><b>Mermoud Yves</b> Ion sensitive transistors for biosensing Supervisor: Calame Michel Co-Supervisor: Calame Michel Uni Basel ◆</p>
	<p><b>Overbeck JAn</b> Optoelectronic Nanojunctions Supervisor: Calame Michel Co-Supervisor: Calame Michel Uni Basel ◆</p>
	<p><b>Römmeler Arno</b> NOQAPTJ Non-destructive quality assessment of polymer tube joints Supervisor: Dual Jürg Co-Supervisor: Neuenschwander Jürg ETH Zurich, Institut für mechanische Systeme ◆</p>

<b>Transport at Nanoscale Interfaces</b>	<p><b>Synhaisvka Olena</b> TBD Supervisor: Calame Michel Co-Supervisor: Calame Michel Uni Basel ◆</p>
	<p><b>Thodkar Kishan</b> Chemical vapor deposited graphene for quantum Hall resistance standards Supervisor: Calame Michel Co-Supervisor: Calame Michel Uni Basel ○</p>
	<p><b>Valzania Lorenzo</b> Thz imaging and modeling of the interface Supervisor: Feurer Thomas Co-Supervisor: Hack Erwin Uni Bern, Institut für Angewandte Psychologie ◆</p>
<b>Urban Energy Systems</b>	<p><b>Vladyka Anton</b> Detailed analysis of of single molecular junctions for computing architectures Supervisor: Calame Michel Co-Supervisor: Calame Michel Uni Basel ○</p>
	<p><b>Dominguez Hernandez Cristina</b> TBD Supervisor: Carmeliet Jan Co-Supervisor: Orehoung Kristina ETH Zurich, Dept. of Mechanical and Process Engineering ◆</p>
	<p><b>Hohmann Marc</b> TBD Supervisor: Lygeros John Co-Supervisor: Dorer Viktor ETH Zürich, Dept. of Information Technology and Electrical Engineering ◆</p>
	<p><b>Marquant Julien</b> TBD Supervisor: Carmeliet Jan Co-Supervisor: Bollinger Andrew ETH Zurich, Dept. of Civil, Environmental and Geomatic Engineering ◆</p>
	<p><b>Mavromatidis Georgios</b> Model-based design of distributed urban energy systems under uncertainty Supervisor: Carmeliet Jan Co-Supervisor: Orehoung Kristina ETH Zurich, Dept. of Civil, Environmental and Geomatic Engineering ○</p>
	<p><b>Miglani Somil</b> TBD Supervisor: Carmeliet Jan Co-Supervisor: Orehoung Kristina ETH Zurich, Dept. of Civil, Environmental and Geomatic Engineering ◆</p>
	<p><b>Morvaj Boran</b> Holistic Optimisation of Distributed Multi Energy Systems for Low Carbon Urban Areas Supervisor: Carmeliet Jan Co-Supervisor: Dorer Viktor ETH Zurich, Dept. of Civil, Environmental and Geomatic Engineering ○</p>
	<p><b>Murray Portia</b> TBD Supervisor: Carmeliet Jan Co-Supervisor: Orehoung Kristina ETH Zurich, Dept. of Mechanical and Process Engineering ◆</p>
	<p><b>Waibel Christoph</b> TBD Supervisor: Carmeliet Jan Co-Supervisor: Evins Ralph ETH Zurich, Dept. of Civil, Environmental and Geomatic Engineering ◆</p>
<p><b>Wang Danhong</b> TBD Supervisor: Carmeliet Jan Co-Supervisor: Orehoung Kristina ETH Zurich, Dept. of Mechanical and Process Engineering ◆</p>	

# Empa Activities 2017

## Teaching Activities

Swiss Federal Institute of Technology, Zürich (ETH)	Architecture	<b>Allegrini Jonas, Jan Carmeliet</b> Bauphysik 3: Energie + Komfort
		<b>Allegrini Jonas, Jan Carmeliet, Dominique Derome</b> Building Physics: Theory and Application
		<b>Allegrini Jonas, Jan Carmeliet, Heini Wernli, Dominik Brunner, Jean-Marc Wunderli, Christoph Schär</b> Urban Physics
		<b>Baldini Luca</b> Building Systems
		<b>Bollinger Andrew</b> Building Control & Automation
		<b>Bollinger Andrew</b> Whole Building Simulation
		<b>Brunner Dominik, Carmeliet Jan, Schär Christoph, Wernli Heini, Wunderli Jean-Marc</b> Building Physics IV: Urban Physics
		<b>Derome Dominique, Carmeliet Jan</b> Materials and Construction
		<b>Derome Dominique, Carmeliet Jan, Allegrini Jonas</b> Building Physics: Theory and Application
		<b>Dorer Viktor</b> Building Systems: Natural and Mech. Ventilation
		<b>Eggenschwiler Kurt</b> Raumakustik
		<b>Koebel Matthias, Carmeliet, von Trzebiatowski, Winnefeld, Zimmermann</b> Baumaterialien I
		<b>Mavromatidis Georgios</b> Building Systems
		<b>Orehounig Kristina</b> Building Physics III: Energy and Comfort, Urban Physics
		<b>Orehounig Kristiina</b> Building Systems
		<b>Orehounig Kristina</b> Whole Building Simulation
		<b>Schoenwald Stefan, Carmeliet Jan, Fontana M., Udert K. M.</b> Indoor Environment, Resources and Safety
		<b>Sulzer Matthias</b> Building Systems
		<b>Winnefeld Frank</b> Mineral building materials as part of the lecture „Baumaterialien I: Struktureigenschaften-Verwendung“, Bachelor Programme Architecture
		<b>Wunderli Jean Marc, Jan Carmeliet</b> Urban physics
<b>Zimmermann Tanja</b> Baumaterialien I		
Chemistry and Applied Biosciences	<b>Kovalenko Maksym</b> Inorganic Chemistry II	
	<b>Kovalenko Maksym, Romayuk Yroslav, Lippert Thomas</b> Functional Inorganics	
Civil Engineers	<b>Zimmermann Tanja</b> Holzphysik	
Civil, Environmental and Geomatic Engineering	<b>Buchmann Brigitte, Wang Jing</b> Luftreinhaltung	
	<b>Burgert Ingo</b> Holzphysik	
	<b>Burgert Ingo</b> Werkstoffe I, Werkstoffe IV, Holz und Holzwerkstoffe, Holzstruktur und Funktion und Holzbearbeitung und -verarbeitung	



Swiss Federal Institute of Technology, Zürich (ETH)	Civil, Environmental and Geomatic Engineering	<b>Eggenschwiler Kurt, Wunderli Jean Marc</b> Lärmbekämpfung
		<b>Grönquist Philippe</b> Werkstoffe III
		<b>Hass Philipp</b> Werkstoffe III
		<b>Kläusler Oliver</b> Holzbearbeitung und -verarbeitung
		<b>Leemann Andreas</b> Alkali-aggregate reaction in concrete, part of the "Concrete Material Science" course
		<b>Loser Roman, Toropovs Nikolajs</b> Werkstoffe III - Beton: Technologie, Festigkeit, Verformbarkeit
		<b>Lura Pietro, Wyrzykowski Mateusz, Griffa Michele</b> Shrinkage and Cracking of Concrete: Mechanisms and Impact on Durability
		<b>Meier Urs</b>
		<b>Motavalli Masoud, Czaderski Christoph, Feltrin Glauco, Ghafoori Elyas, Shahverdi Moslem, Widmann Robert</b> Fibre composite material in structural Engineering
		<b>Olaniran Samuel</b> Werkstoffe III
		<b>Özparpucu Merve</b> Werkstoffe III
		<b>Partl Manfred</b> Bituminöse Werkstoffe
		<b>Steiger René</b> Holz und Holzwerkstoffe: Ernte, Strukturmerkmale und Produktion von Vollholz
		<b>Steiger René</b> Erdbebengerechte Konzeption, Bemessung und Konstruktion von Holzbauten
		<b>Wang Jing</b> Air quality and aerosol mechanics
		<b>Wang Jing</b> Environment and Computer Laboratory: Air quality measurement
		<b>Wang Jing, Buchmann Brigitte</b> Luftreinhaltung
		<b>Wang Jing, Burlando Paulo</b> Environmental Engineering Seminars
		<b>Wang Jing, Wick Peter</b> Air quality and health impact
		<b>Wick Peter, Jing Wang, Hans Schleibinger</b> Health Impact, Toxicity and Industrial Hygiene
	<b>Wyrzykowski Mateusz, Ghourchian Sadegh, Justs Janis</b> Werkstoffe III: Mineralische Bindemittel	
	Earth Sciences	<b>Liati Anthi, von Quadt Albrecht, Busemann Henner, Guillong Marcel, Ellis Ben</b> Advanced Geochronology
	Environmental Systems Science	<b>Brunner Dominik, Ammann Markus</b> Atmosphärenchemie
		<b>Mohn Joachim</b> Stable Isotope Ecology of Terrestrial Ecosystems
		<b>Nowack Bernd, Bucheli Thomas, Denise Mitrano</b> Nanomaterials in the Environment
		<b>Nowack Bernd, Som Claudia</b> Bachelor Excursion UMNW "Nanotechnologie: Auf dem Weg zu sicheren und nachhaltigen Produkten"
	Environmental Systems Science	<b>Nowack Bernd, Som Claudia</b> Gesellschaftlicher Umgang mit aktuellen Umweltrisiken
	Health Sciences and Technology	<b>Annaheim Simon</b> Praktikum Thermophysikologie
		<b>Maniura Katharina</b> Biocompatible Materials

Swiss Federal Institute of Technology, Zürich (ETH)	Health Sciences and Technology	<b>Maniura Katharina</b> Principles in Tissue Engineering
	Information Technology and Electrical Engineering	<b>Buecheler Stephan, Romanyuk Yaroslav, Tiwari Ayodhya N.</b> Solar Cells
		<b>Grossmann Günter, Sennhauser Urs</b> Physics of Failure and Failure Analysis of Electronic Devices and Equipment
		<b>Held Marcel, Sennhauser Urs</b> Reliability of Electronic Equipment and Systems
		<b>Heutschi Kurt</b> Acoustics 1 und Acoustics 2
		<b>Romanyuk Yaroslav, Tiwari Ayodhya/Buecheler Stephan</b> Solar Cells
		<b>Tiwari Ayodhya Nath, Yaroslav Romanyuk, Stephan Buecheler</b> Solar Cells
	Institute of Environmental Engineering	<b>Thiébaud Esther</b> Prospective Environmental Assessment
	Institute of Technology in Architecture	<b>Defraeye Thijs</b> Building Physics II: Moisture
		<b>Defraeye Thijs, Jan Carmeliet</b> Moisture and Durability
Materials	<b>Barbezat Michel, Roth Manfred, Graule Thomas</b> Integrity of Materials and Structures	
	<b>Battaglia Corsin, Marie-Claude Bay, Francesco Pagani</b> Lithium-ion batteries: material synthesis and device characterization	
	<b>Burgert Ingo, Cabane Etienne</b> Biological und bioinspired materials	
	<b>Clemens Frank</b> Verbundwerkstoffe	
	<b>Clemens Frank, Terrasi Givoanni</b> Advanced Composite and Adaptive Material Systems	
	<b>Crockett Rowena</b> Praktikum 5	
	<b>Ernst Karl-Heinz, none</b> Biomineralization	
	<b>Fischer Maria Ruth</b> Praktikum III 2016 for students from ETHZ - Department of Materials	
	<b>Graule Thomas, Barbezat Michel, Roth Manfred</b> Integrity of Materials and Structures	
	<b>Graule Thomas, Niederberger Markus, Studart André</b> Keramik I	
	<b>Hegemann Dirk, Spolenak, Ralph; Studart, Andre</b> Materials at Work II	
	<b>Heuberger Manfred, N.D. Spencer, L. Isa</b> Surfaces, Interfaces & their applications	
	<b>Kübler Jakob, A. D. Schlüter</b> Material Science II, part mechanical properties of ceramics	
	<b>Passerone Daniele, Pignedoli, Carlo Antonio</b> Molecular and Materials Modelling	
	<b>Pignedoli Carlo Antonio</b> Molecular and Materials Modeling	
	<b>Schmutz Patrik, Olga Guseva</b> Practical course III/IV: Introduction in Electrochemical Impedance Spectroscopy (EIS). Examples of batteries and anodized barrier oxides characterization	
	<b>Terrasi Giovanni P., Kovacs Gabor, Clemens Frank</b> Advanced Composite and Adaptive Material Systems	
Materials Science	<b>Schmutz Patrik, B. Elsener</b> Surfaces, Interfaces and their Applications II	
Materials Science	<b>Wäger Patrick, Beloin Saint-Pierre Didier, Böni Heinz, Gasser Michael, Haarman Arthur, Widmer Rolf</b> Sustainable Materials Management: Concepts, Methods and Principles	
Materials, Metallphysik und Technologie	<b>Rawlence Michael</b> Forschungslabor II	

<b>Swiss Federal Institute of Technology, Zürich (ETH)</b>	Mechanical and Process Engineering	<b>Bergamini Andrea</b> Adaptive Materials for Structural Applications
		<b>Czaderski Christoph</b> Adaptive Materials for Structural Applications/Shape Memory Alloys
		<b>Dimopoulos Eggenschwiler Panayotis, Boulouchos Konstantinos</b> IC-Engines and Propulsion System II
		<b>Ehret Alexander</b> Mechanics of Soft Materials and Tissues
		<b>Hack Erwin, Brönnimann Rolf</b> Optical Methods in Experimental Mechanics
		<b>Koller Roland, Guillaume Michel</b> Betriebsfestigkeit
		<b>Kovacs Gabor</b> Seilbahnen, AK Seilbahnen
		<b>Liao Yujun, Herrmann Kai</b> Diagnostics in Experimental Combustion Research
		<b>Liao Yujun, Rösigen Thomas</b> Experimental Methods for Engineers
		<b>Mazza Edoardo</b> Continuum Mechanics I, Kinematik und Statik und Kinematik und Statik (Kolloquium)
		<b>Mazza Edoardo, Röhrnbauer Barbara</b> Nonlinear Continuum Mechanics
		<b>Terrasi Giovanni P.</b> GL zum Bemessen von Kunststoffbauteilen
	<b>Zemp Armin</b> Turbomachinery Mechanics & Dynamics	
	Mechanical and Process Engineering /SCCER Mobility	<b>Bach Christian</b> Rahmenbedingungen, vorgelagerte Prozesse und energiesystemische Analyse (CAS SCCER Mobility)
	Mechanical and Process Engineering /SCCER Mobility, ECE Summer School	<b>Bach Christian</b> Renewable fuel operated ICE vehicles
	Mechanical and Process Engineering – LAV	<b>Kammermann Thomas, Boulouchos Konstantinos</b> Combustion and Reactive Processes in Energy and Materials Technology
	Umweltingenieurwissenschaften	<b>Tuchs Schmid Martin, Urs Gfeller</b> Mobile Röntgenfluoreszenz-Spektrometrie
<b>Aalto University, FI</b>	Civil Engineering	<b>Palma Pedro</b> Timber Structures
<b>AGH Krakow, PL</b>	Faculty of material science and ceramics	<b>Graule Thomas</b> Synthesis of nanosized particles and their application in nanoceramics and nanocomposite technology
<b>Albert-Ludwigs-Universität Freiburg, DE</b>	Institute of Earth and Environmental Sciences	<b>Remhof Arndt</b> Aktuelle Fragen der Kristallzüchtung - Recent Publications, Röntgenpulverdiffraktometrie und X-Ray Diffraction by Crystals
		<b>Vogt Ulrich F.</b> Crystalline Materials: Technical and Applied Mineralogy, Modern Ceramics, Cements, and Glasses und Energie und Georessourcen: Angewandte Mineralogie mit dem Schwerpunkt Keramische Materialien
<b>Amsterdam University, NL</b>	Physics	<b>Derome Dominique, Carmeliet Jan, Prat Marc, Shahidzadeh Noushine</b> Physics for art conservation
<b>École Polytechnique Fédérale, Lausanne (EPF)</b>	EDPO-Doctoral school	<b>Romanyuk Yaroslav, Nüesch Frank, Haug Franz-Josef</b> Modern photovoltaic technologies
	EPL	<b>Lüthi Thomas</b> Non-destructive Evaluation Methods
	Institut für Materialwissenschaften	<b>Nüesch Frank</b> Organic Semiconductors (lecture 2h per week, exercise 1h per week)
	Materials	<b>Philippe Laetitia, Stefano Mischler, Jan van Herle</b> Electrochemistry for Materials Technology
	Materials Science	<b>Michler Johann</b> Materials Selection
	Materials Science and Engineering	<b>Hoffmann Patrik, Utke Ivo</b> Nano-fabrication with focused electron and ion beams

<b>École Polytechnique Fédérale, Lausanne (EPF)</b>	Materials Science and Engineering	<b>Utke Ivo, Hoffmann, Patrik</b> Nanofabrication with focused electron and ion beams
	Microtechnique	<b>Hoffmann Patrik</b> Chimie des Surfaces
	Microtechnique; Materials Science and Engineering, Mechanical Engineering	<b>Hoffmann Patrik</b> Laser Microprocessing
<b>Fachhochschule Horw</b>	Bautechnik	<b>Piskoty Gabor</b> Metallische Baustoffe
<b>Fachhochschule Nordwestschweiz</b>	Life Sciences School Institute for Ecopreneurship	<b>Zennegg Markus</b> Environmental Risk Assessment
		<b>Wäger Patrick</b> Studiengang Energie- und Umwelttechnik: Modul Abfallwirtschaft und Recycling
<b>Fernfachhochschule Schweiz (FFHS)</b>	Technik/Engineering	<b>Wasmer Kilian, Hadad Mousab</b> Einführung in die Tribologie & Metallographie
<b>Ghent University, BE</b>	Structural engineering	<b>Czaderski Christoph</b> FRP training course
<b>Grenoble Alpes University, FR</b>	ESONN School Nanoscience	<b>Hug Hans J.</b> Scanning Probe Microscopy
<b>Harbin Institute of Technology (HIT)</b>	Civil Engineering	<b>Meier Urs</b>
<b>HF TGZ, Wallisellen</b>		<b>Hischier Roland</b> Ökologie
<b>Hochschule Luzern</b>	Business Engineering	<b>Bollinger Andrew</b> Sustainable Energy Systems
	T&A	<b>Dorer Viktor</b> Natural and Hybrid Ventilation
	T&A	<b>Sulzer Matthias</b> EEIS (Energieversorgung Areale)
<b>IPI, Schaffhausen</b>		<b>Hischier Roland</b> Integrated Environmental Protection
<b>KTH Stockholm, SE</b>	School of Computer Science and Communications	<b>Hilty Lorenz</b> Sustainable Development for Computer Science and Engineering
<b>Politecnico di Milano, IT</b>	Dipartimento di energia Motori	<b>Dimopoulos Eggenschwiler Panayotis</b> Additive manufactured polyhedral catalytic substrates for zero emission mobility
<b>SCUT South China University of Technology, CN</b>	Civil Engineering, College of Civil and Transportation Engineering	<b>Partl Manfred</b> Pavement Engineering
<b>Silesian University of Technology, PL</b>	Faculty of Civil Engineering	<b>Wyrzykowski Mateusz, Knoppik Agnieszka, Benboudjema Farid, Schlicke Dirk, Guang Ye</b> Doctoral course of COST Action TU1404 "Modelling of cement-based materials and structures at early age"
<b>SVI, Zurich</b>	Packaging Manager/Grundlagenseminar	<b>Hischier Roland</b> Ökologie im Verpackungsbereich
<b>Technische Universität Freiberg, DE</b>	Verfahrens- und Umwelttechnik	<b>Graule Thomas, Aneziris Christos</b> Nanoskale Verbundwerkstoffe: Eine Herausforderung für die Prozesstechnik
<b>Technische Universität München, DE</b>	Limnologische Station	<b>Jacob Peter</b> Einführung in die Rasterelektronenmikroskopie
<b>TSH Pfäffikon</b>	Hochbau	<b>Partl Manfred</b> Materialkunde
<b>Uni Leuphana Lüneburg</b>	Nachhaltige Chemie	<b>Gasser Michael</b> Improving E-waste management in Developing countries – Challenges and Approaches
<b>Universidade Federal do Rio Grande</b>	Material Engineering	<b>Clemens Frank</b> Powder Technology
<b>Università degli Studi di Parma, IT</b>	Dipartimento di Energia	<b>Dimopoulos Eggenschwiler Panayotis, Gambarotta Agostino</b> IC-Engines
<b>Universität Freiburg im Breisgau, DE</b>	Forest Sciences	<b>Schwarze Francis</b> Bäume in der Stad und Pilze als Schlüsselfaktoren in Umweltfragen.

<b>Universität St. Gallen</b>	School for Humanities and Social Sciences	<b>Wäger Patrick, Böni Heinz, Gasser Michael, Hilty Lorenz, Hischier Roland, Mader Clemens, Widmer Rolf</b> Bedingt die Energiewende eine Rohstoffwende?
<b>University of Applied Science Muttenz</b>		<b>Eggenschwiler Kurt, Heutschi Kurt, Tröbs Hans Martin, Wunderli Jean Marc, Barbara Locher</b> Messpraktikum, CAS Akustik
<b>University of Applied Science Rapperswil</b>	WERZ	<b>Hischier Roland</b> MODUL LE4.1 "Ökobilanzierung verstehen und anwenden" aus der Reihe "Energie und Ressourceneffizienz"
		<b>Wäger Patrick, Böni Heinz, Hischier Roland, Widmer Rolf</b> CAS Recycling und umweltgerechte Entsorgung
<b>University of Applied Sciences, Berne</b>	Lebensmitteltechnologie	<b>Hischier Roland</b> Verpackungen unter ökologischer Betrachtung
<b>University of Applied Sciences, Berne/Berner Fachhochschule BFH</b>	Architektur, Holz und Bau/Verkehrswegebau	<b>Raab Christiane, Nicolas Bueche</b> Strassenbaumaterialien
<b>University of Applied Sciences, Horw</b>	Bautechnik	<b>Losler Roman</b> Beton und Bindemittel
		<b>Eggenschwiler Kurt</b> Bau-/Raumakustik CAS Akustik
<b>University of Applied Sciences, Wädenswil</b>		<b>Eggenschwiler Kurt</b> Lärmbekämpfung
	ICBT Institut für Chemie und Biotechnologie	<b>Gauch Marcel</b> Umweltauswirkungen von Biotreibstoffen
	Institut für Umwelt und Natürliche Ressourcen IUNR	<b>Wäger Patrick</b> Modul Ressourcenbewirtschaftung
	Institut Umwelt und Natürlich Ressourcen	<b>Hueglin Christoph, Krebs Rolf</b> Umweltchemie und Analytik
	Life Sciences Institut für Chemie und Biotechnologie ICBT	<b>Zennegg Markus</b> Ökologie für Chemiker Persistente organische Schadstoffe in der Umwelt
<b>University of Applied Sciences, Winterthur</b>	Inst. of Materials and Process Engineering	<b>Hegemann Dirk, Winkler, Martin; Schneider, Toni</b> Beschichtungen
	Verfahrenstechnik, Department of Industrial Technologies	<b>Clemens Frank, Penner Dirk</b> Funktionsmaterialien
<b>University of Applied Sciences, Zurich</b>	ICBT Institut für Chemie & Biotechnologie (Urs Baier)	<b>Borgschulte Andreas, Bach Christian, (Urs Cabalzar)</b> Wasserstoff als Energieträger: Produktion – Speicherung – Nutzung
	Institut für Chemie und Biotechnologie (ICBT)	<b>Cabalzar Urs</b> Biogene Energieträger
<b>University of Basel</b>	Physics	<b>Calame Michel, Glatzel Thilo</b> Molecular and carbon-based electronic systems (2 CP)
		<b>Calame Michel, Poggio Martino</b> Introduction to Physics I 6 CP
		<b>Hug Hans J., Marioni M. A.</b> Magnetismus und magnetische Materialien
		<b>Marioni Miguel A., Hug Hans J.</b> Magnetismus und magnetische Materialien
		<b>Overbeck Jan, Perrin Mickael/Calame Michel</b> Molecular Junctions
<b>University of Berne</b>		<b>Widmer Roland, Okan Deniz</b> Introduction ESCA
	Biomedical Engineering	<b>Maniura Katharina</b> Applied Biomaterials
	Chemie und Biochemie	<b>Fasel Roman</b> Introduction to the Physics and Chemistry of Surfaces
	Medizinische Fakultät, Biomedical Engineering	<b>Dommann Alex</b> Applied Biomaterials
		<b>Dommann Alex, Dr. Reto Luginbuehl</b> Biomaterials
<b>University of Edinburgh, UK</b>	Institute of Infrastructure	<b>Terrasi Giovanni P.</b> Mechanics of composites for repairing and strengthening structures

<b>University of Fribourg</b>	Chemistry	<b>Neels Antonia</b> Applied X-ray Diffraction Methods
<b>University of Gent, BE</b>	Geology	<b>Griffa Michele, Cnudde Veerle, Blümich Bernhard, Desbois Guillaume, Aelterman Jan, Van Genuchten Rien, Raoof Amir, Bultreys Tom, Moonen Peter, Derluyn Hannelore, Jimenez-Martinez Joaquin</b> Doctoral School on "Imaging and modelling of (reactive) fluid transport in geomaterials: from pore to continuum scale"
<b>University of Teheran, IR</b>	Faculty of Civil Engineering	<b>Motavalli Masoud</b> Fibre composite material in structural Engineering
	School of Civil Engineering	<b>Motavalli Masoud</b> Application of Advanced Materials and Experimental Techniques in Structural Engineering
<b>University of the Basque country</b>	Thinface Summer School on Surfaces and Interfaces	<b>Nüesch Frank</b> 2017 PCAM (20.-23.6.2017) Thinface Summer School on Surfaces and Interfaces
<b>University of Zurich</b>	Biology	<b>Maniura Katharina</b> Regenerative Medicine and Applied Tissue Engineering
		<b>Rottmar Markus</b> Regenerative Medicine and Applied Tissue Engineering
	Chemistry	<b>Bleiner Davide</b> Advanced Laser Spectroscopy
		<b>Bleiner Davide</b> Laser Desorption and Ablation
		<b>Ernst Karl-Heinz, Gitika Srivastava, Christian Wäckerlin</b> Chemical Processes at Solid Surfaces
		<b>Ernst Karl-Heinz, Seeger Artur</b> Advanced Physical Chemistry
	Informatik	<b>Hilty Lorenz</b> Digitalisation and Sustainable Development, Informatik, Ethik und Gesellschaft und Wirtschaftsinformatik I
		<b>Hilty Lorenz, Marc Chesney, Markus Huppenbauer, Bernhard Schmid, Piet Spaak, Katharina Michaelowa u.a.</b> Einführung in die Grundlagen der Nachhaltigkeit
	Physics	<b>Mishra Shantanu</b> Laboratory Course for Bachelor Students in Physics
<b>Yonsei University, KR</b>	Mechanical Engineering	<b>Braun Artur</b> Electrochemical Energy Storage and Conversion. An Introductory Lecture and Short Course on Electrochemistry
<b>ZHAW Wädenswil</b>	Institute of Chemistry and Biological Chemistry	<b>Heeb Norbert</b> Ökologie Vorlesung: Chemie und Umwelt
<b>ZHdK Zurich University of the Arts</b>	Department of Music	<b>Heutschi Kurt</b> Audiotechnik

# Empa Activities 2017

## 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

#### **Bischof, Klaus/Rossi, René/Bona, Gian-Luca**

Führen in der Wissenschaft. In Scheinpflug, Rita/Stolzenberg, Kerstin (Eds.), Neue Komplexität in Personalarbeit und Führung. Herausforderungen und Lösungsansätze (pp. 133–153). (joint paper) (2017)

#### **Quandt, Brit M./Braun, Fabian/Ferrario, Damien/Rossi, René M./Scheel-Sailer, Anke/Wolf, Martin/Bona, Gian-Luca/Hufenus, Rudolf/Scherer, Lukas J./Boesel, Luciano F.**

Body-monitoring with photonic textiles: a reflective heartbeat sensor based on polymer optical fibres. Journal of the Royal Society Interface, 14, (2017)0060 (10 pp.). (joint paper) (2017) ▲

#### **Quandt, Brit M./Ferrario, Damien/Rossi, René M./Bona, Gian-Luca/Boesel, Luciano F.**

Melt-spun polymer optical fibers for decubitus prevention. (pp. OP34 (3 pp.)). (joint paper) (2016)

#### **Quandt, Brit M./Hufenus, Rudolf/Weisse, Bernhard/Braun, Fabian/Wolf, Martin/Scheel-Sailer, Anke/Bona, Gian-Luca/Rossi, René M./Boesel, Luciano F.**

Optimization of novel melt-extruded polymer optical fibers designed for pressure sensor applications. European Polymer Journal, 88, 44–55. (joint paper) (2017) ▲

#### **Quandt, Brit M./Pfister, Marisa S./Lübben, Jörn F./Spano, Fabrizio/Rossi, René M./Bona, Gian-Luca/Boesel, Luciano F.**

POF-yarn weaves: controlling the light out-coupling of wearable phototherapy devices. Biomedical Optics Express, 8 (10), 4316–4330. (joint paper) (2017) ▲

#### **Isa, Fabio/Jung, Arik/Salvalaglio, Marco/Arroyo Rojas Dasilva, Yadira/Marozau, Ivan/Meduňa, Mojmír/Barget, Michael/Marzegalli, Anna/Isella, Giovanni/Erni, Rolf/Pezzoli, Fabio/Bonera, Emiliano/Niedermann, Philippe/Sereda, Olha/Gröning, Pierangelo/Montalenti, Francesco/von Känel, Hans**

Strain engineering in highly mismatched SiGe/Si heterostructures. Materials Science in Semiconductor Processing, 70, 117–122. (joint paper) (2017) ▲

#### **Rojas Dasilva, Y. A./Rossell, M. D./Isa, F./Erni, R./Isella, G./von Känel, H./Gröning, P.**

Strain relaxation in epitaxial Ge crystals grown on patterned Si(001) substrates. Scripta Materialia. (2017), 127, 169–172 (joint paper) (2017) ▲

#### **Balogh-Michels, Z./Faeht, A./Kleiner, S./Rufer, J.M./Dommann, A./Margraf, C./Neels, A.**

The growth kinetics and the structure of expanded austenite in AISI316L stainless steels characterized by in-situ XRD. (joint paper) (2017)

#### **Meduna, Mojmír/Falub, Claudiu Valentin/Isa, Fabio/Marzegalli, Anna/Christina, Daniel/Isella, Giovanni/Miglio, Leo/Dommann, Alex/von Känel, Hans**

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#### **Schifferle, Andreas/Dommann, Alex/Neels, Antonia**

In situ MEMS testing: correlation of high-resolution X-ray diffraction with mechanical experiments and finite element analysis. Science and Technology of Advanced Materials, 18 (1), 219–230. (joint paper) (2017) ▲

### Advanced Materials and Surfaces

### Advanced Materials Processing

#### **Amalfi, Raffaele L./Vakili-Farahani, Farzad/Thome, John R.**

Flow boiling and frictional pressure gradients in plate heat exchangers. Part 1: review and experimental database. International Journal of Refrigeration, 61, 166–184. (2016) ▲

#### **Amalfi, Raffaele L./Vakili-Farahani, Farzad/Thome, John R.**

Flow boiling and frictional pressure gradients in plate heat exchangers. Part 2: comparison of literature methods to database and new prediction methods. International Journal of Refrigeration, 61, 185–203. (2016) ▲

#### **Anis, Ahmad Lutfi/Talari, Mahesh Kumar/Mohd Arif, Izzul Adli/Kishore Babu, N./Ismail, Muhammad Hussain/Janaki Ram, G.D.**

Microstructure and mechanical properties of Ti-15-3 alloy gas tungsten arc welds prepared using –titanium filler. Transactions of the Indian Institute of Metals, 70 (3), 685–690. (2017) ▲

#### **Arif, Izzul Adli Mohd/Talari, Mahesh Kumar/Anis, Ahmad Lutfi/Ismail, Muhammad Hussain/Kishore Babu, N.**

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Thermal heating during microwave processing for cerium oxide particles packing: multiphysics modelling approach. Study of the effect of particle and neck sizes. (pp. 7415042 (4 pp.)). (2016)

3D laser shock peening – a new method for the 3D control of residual stresses in selective laser melting. Materials and Design, 130, 350-356. (2017) ▲

Microstructure and mechanical properties of near net shaped aluminium/alumina nanocomposites fabricated by powder metallurgy. Journal of Alloys and Compounds, 714, 133-143. (joint paper) (2017) ▲

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**Leparoux, M./Le Dantec, M./Abdulstaar, M./Hoffmann, P.**

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**Li, X./Spierings, A.B./Wegener, K./Leinenbach, C.**

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**Lis, Adrian/Kicin, Slavo/Brem, Franziska/Leinenbach, Christian**

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**Mathew, Jinesh/Hauser, Carl/Stoll, Philipp/Kenel, Christoph/Polyzos, Dimitrios/Havermann, Dirk/Maherson, William N./Hand, Duncan P./Leinenbach, Christian/Spierings, Adriaan/Koenig-Urban, Kamilla/Maier, Robert R.J.**

Integrating fiber Fabry-Perot cavity sensor into 3-D printed metal components for extreme high-temperature monitoring applications. *IEEE Sensors Journal*, 17 (13), 4107–4114. (2017) ▲

**Meylan, B./Ciani, D./Zhang, B./Cuche, E./Wasmer, K.**

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**Popescu, Andrei C./Delval, Christophe/Leparoux, Marc**

Control of porosity and spatter in laser welding of thick AlMg5 parts using high-speed imaging and optical microscopy. *Metals*, 7 (11), 452 (12 pp.). (2017) ▲

**Popescu, Andrei C./Stan, George E./Duta, Liviu/Nita, Cristina/Popescu, Camelia/Surdu, Vasile-Adrian/Husanu, Marius-Adrian/Bita, Bogdan/Ghisleni, Rudy/Himcinschi, Cameliu/Craciun, Valentin**

The Role of ambient gas and pressure on the structuring of hard diamond-like carbon films synthesized by pulsed laser deposition. *Materials*, 8 (6), 3284–3305. (2015) ▲

**Reinke, Michael/Kuzminykh, Yury/Eltes, Felix/Abel, Stefan/LaGrange, Thomas/Neels, Antonia/Fompeyrine, Jean/Hoffmann, Patrik**

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Molecular dimensions and surface diffusion assisted mechanically robust slippery perfluoropolyether impregnated mesoporous alumina interfaces. *Nanotechnology*, 28 (50), 505605 (14 pp.). (2017) ▲

**Saeidi, F./Parlinska-Wojtan, M./Hoffmann, P./Wasmer, K.**

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Origin of scuffing in grey cast iron-steel tribo-system. *Materials and Design*, 116, 622-630. (joint paper) (2017) ▲

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Prediction of failure in lubricated surfaces using acoustic time–frequency features and random forest algorithm. *IEEE Transactions on Industrial Informatics*, 13 (4), 1541–1553. (2017) ▲

**Siva Prasad, M./Ashfaq, M./Kishore Babu, N./Sreekanth, A./Sivaprasad, K./Muthupandi, V.**

Improving the corrosion properties of magnesium AZ31 alloy GTA weld metal using microarc oxidation process. *International Journal of Minerals, Metallurgy, and Materials*, 24 (5), 566–573. (2017) ▲

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**Vakili-Farahani, Farzad/Lungershausen, Jörn/Wasmer, Kilian**

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**Wasmer, K./Kenel, C./Leinenbach, C./Shevchik, S.A.**

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Parametric experimental study and design of experiment modelling of sapphire grinding. *Journal of Cleaner Production*, 141, 323–335. (2017) ▲

**Wasmer, K./Shevchik, S.A.**

Sensors networks and machine learning in industry 4.0. . (2017)

## Electron Microscopy Center

**Arroyo Rojas Dasilva, Yadira/Kozak, Roksolana/Erni, Rolf/Rossell, Marta D.**

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**Caparrós, Francisco J./Guarnizo, Anderson/Rossell, Marta D./Angurell, Inmaculada/Seco, Miquel/Muller, Guillermo/Llorca, Jordi/Rossell, Oriol**

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Strain engineering in highly mismatched SiGe/Si heterostructures. *Materials Science in Semiconductor Processing*, 70, 117–122. (joint paper) (2017) ▲

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**Keller, Debora/Buecheler, Stephan/Reinhard, Patrick/Pianezzi, Fabian/Snoeck, Etienne/Gatel, Christophe/Rossell, Marta D./Erni, Rolf/Tiwari, Ayodhya N.**

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## Mechanical Integrity of Energy Systems

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A correlative investigation of grain boundary crystallography and electronic properties in CdTe thin film solar cells. *Solar Energy Materials and Solar Cells*, 166, 108–120. (joint paper) (2017) ▲

**Szafraniak-Wiza, Izabela/Kozielski, Lucjan/Sebastian, Tutu**

Preparation and properties of Ba<sub>1-x</sub>CaxTiO<sub>3</sub> nanopowders obtained by mechanochemical synthesis. *Phase Transitions*, 89 (7–8), 803–807. (2016) ▲

**Wang, Jing/Schlagenhauf, Lukas/Setyan, Ari**

Transformation of the released asbestos, carbon fibers and carbon nanotubes from composite materials and the changes of their potential health impacts. *Journal of Nanobiotechnology*, 15, 15 (16 pp.). (joint paper) (2017) ▲

# Empa Activities 2017

## Conferences

General Management	<b>Buchmann Brigitte</b> RFA Colloquium Natural Resources and Pollutants + Energy, Dübendorf, 03-03 ▲
	<b>Buchmann Brigitte</b> GGMT 2017, Greenhouse Gases & Measurement Techniques, Dübendorf, 08-27 to 08-31 ▲
	<b>Buchmann Brigitte</b> Mobilität der Zukunft. Wirksame Reduktion von CO <sub>2</sub> durch Kopplung von effizienten Fahrzeugen mit erneuerbarer Energie. Event Rennli AG – "Strom – vom Dach direkt in den Tank", Sursee, 04-06 🌿 ○
	<b>Buchmann Brigitte</b> Research Activities at Empa. TAP Conference 2017 – 22 <sup>nd</sup> International Transport and Air Pollution Conference, Dübendorf, 11-15 to 11-16 🌿 ○
	<b>Dommann Alex</b> Material meets Life. 17. Thurgauer Technologietag, Märstetten, 03-24 🌿 ○
	<b>Dommann Alex</b> Neues Gewebe für Astronauten und Sportler. TecDay 2017, Uster, 05-10 🌿 ○
	<b>Dommann Alex</b> Presentation of Oral and Poster Awards, Concluding Remarks. 23 <sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St.Gallen, 05-18 🌿 ○
	<b>Dommann Alex</b> Nano, Nano-structured Materials. Conference on Frontiers in Materials Processing, Applications, Research and Technology (FiMPART) 2017, Bordeaux, FR, 07-09 ▲ ○
	<b>Dommann Alex</b> Combined X-Ray techniques to characterize complex materials. Conference on Frontiers in Materials Processing, Applications, Research and Technology (FiMPART) 2017, Bordeaux, FR, 07-11 🌿 ○
	<b>Dommann Alex</b> A vision about collaborative translation models from research to industries. Swiss Future Technology Forum , Dübendorf, 09-01 🌿 ○
	<b>Dommann Alex</b> ETH Week „Manufacturing the future“. Röntgen, St.Gallen, 09-11 🌿 ○
	<b>Dommann Alex</b> Radiology Technology. World Congress on Radiology and Oncology, New York, US, 09-19 ▲ ○
	<b>Dommann Alex</b> SAXS for bio-materials and bio-technology. World Congress on Radiology and Oncology, New York, US, 09-19 🌿 ○
	<b>Dommann Alex</b> How the combination of new x-ray techniques with new algorithms can support 3D imaging in Medicine. World Congress on Radiology and Oncology, New York, US, 09-20 🌿 ○
	<b>Dommann Alex</b> Sensorik. 57. ITS Techno-Apéro, Neuhausen, 10-30 🌿 ○
	<b>Dommann Alex</b> Ein Blick in die Welt von morgen – wie Materialien unser Leben verändern. Seminar Volkshochschule Rheintal, Heerbrugg, 11-16 🌿 ○
	<b>Dommann Alex</b> Materials meet Life. Seminar at Leibnitz Institut für Polymerforschung, Dresden, DE, 11-17 🌿 ○
<b>Dommann Alex</b> Die Bedeutung von Grenzflächenphänomenen in den Naturwissenschaften und der Technik –ein neutraler Zugang zur Thematik. Kick-off Grenzräume, Grenzflächen und Grenzüberschreitungen, Diepoldsau, 11-23 🌿 ○	
<b>Dommann Alex, Neels Antonia</b> X-Ray Analysis on Thin Films. Seminar PSI , Villigen, 05-19 🌿 ○	
<b>Dommann Alex, Neels Antonia</b> How new X-ray techniques can support the development of Ceramics . Advanced Ceramics and Application VI Conference , Belgrad, CS Serbia and Montenegros, 09-18 🌿 ○	
<b>Dommann Alex, Neels Antonia</b> INTRODUCTION TO X-RAY DIFFRACTION METHODS. CCMX Advanced Course "Advanced X-ray Diffraction Methods for Coatings: Strain, Defects and Deformation Analysis of Thin Films", Dübendorf, 11-27 🌿	
<b>Dommann Alex, Neels Antonia</b> HIGH RESOLUTION X-RAY DIFFRACTION (HRXRD) . CCMX Advanced Course "Advanced X-ray Diffraction Methods for Coatings: Strain, Defects and Deformation Analysis of Thin Films", Dübendorf, 11-28 🌿	

## Advanced Materials and Surfaces

### Electron Microscopy Center

**Agrawal Piyush, Rossell Marta D., Hébert Cécile, Passerone Daniele and Erni Rolf**

Electronic Structure Properties of Planar Defects in Oxygen Deficient SrFeO<sub>3</sub> thin films. Microscopy Conference 2017, Lausanne, 08-21 to 08-25 🍄

**Arroyo Rojas Dasilva Yadira, Isa Fabio, Erni Rolf, Isella Giovanni, von Känel Hans, Gröning Pierangelo, Rossell Marta D.**

Direct observation of grain boundaries in Ge crystals grown on Si pillars by HAADF-STEM. Microscopy Conference 2017, Lausanne, 08-21 to 08-25 🍄

**Bologna Nicolas, Agrawal Piyush, Campanini Marco, Knoedler Moritz, Rossell D. Marta, Erni Rolf, Passerone Daniele**

Dislocation cores acting as nano-channels for mono-dimensional carrier transport in GaAs nanowires. Microscopy Conference 2017, Lausanne, 08-21 to 08-25 🍄

**Campanini Marco, Ederer Claude, Trassin Morgan, Erni Rolf, Rossel Marta D.**

Microscopic Origin of Magnetoelectric Properties in Strained and Doped Aurivillius Phase Predicted by DFT. MARVEL Site Visit, EPFL Lausanne, 04-25 ♦

**Campanini Marco, Erni Rolf, Rossel D. Marta**

Anisotropic Polarization in Bi<sub>0.8</sub>Ca<sub>0.2</sub>FeO<sub>3</sub> thin films investigated by combined HAADF, ABF Imaging. Microscopy Conference 2017, Lausanne, 08-21 to 08-25 🍄

**Campanini Marco, Rossel Marta D.**

Microscopic Origin of the Magnetoelectric Properties in Strained and Doped Aurivillius Phase Predicted by DFT. MARVEL PP7 day, PSI Villingen, 04-04 🍄

**Erni Rolf**

Conference chair. Microscopy Conference 2017, Dreiländertagung, Lausanne, 08-21 to 08-25 ■

**Erni Rolf**

Towards an atomic-scale understanding of nucleation and growth of matter by in-situ (scanning) transmission electron microscopy. Seminar on Analytical High-Resolution Electron Microscopy, Oslo, NO, 12-13 to 11-13 🍄 ○

**Erni Rolf, Arroyo Yadira, Kozak Roksolana, Campanini Marco, Rossell Marta**

Strain relaxation mechanisms at epitaxial heterointerfaces in semiconductors and functional oxides. PICO conference, Kaastel Vaalsbroek, NL, 04-30 to 05-04 🍄 ○

**Erni Rolf, Keller Debora, Rossell Marta, Zhang Yucheng, Henninen Trond, Bon Marta, Passerone Daniele**

Towards atomic-scale studies of nucleation and growth of matter by in-situ (scanning) transmission electron microscopy. 13<sup>th</sup> Multinational Congress on Microscopy (MCM), Rovinj, HR, 09-24 to 09-29 🍄 ○

**Erni Rolf, Keller Debora, Zhang Yucheng, Henninen Trond**

Possibilities to study nucleation and growth of matter by in-situ (scanning) transmission electron microscopy. 1<sup>st</sup> Dresden Symposium on Electron Microscopy, IFW Dresden, DE, 03-15 🍄 ○

**Henninen Trond, Erni Rolf**

Studying Pt clusters by HAADF-STEM. PhD Seminar related to course 'Modern Aspects in Surface Science', ETH, Zürich, 2016-12-09 🍄

**Henninen Trond, Erni Rolf**

Studying the dynamics of atomic clustering in 3D by HAADF-STEM. Microscopy Conference 2017, Lausanne, 08-21 to 08-25 🍄

**Henninen Trond, Erni Rolf**

Dynamics and Structure of Atomic Clusters in 3D by High Speed STEM. Multinational Congress on Microscopy 2017, Rovinj, HR, 09-24 to 09-29 🍄

**Keller Debora, Yucheng Zhang, Rolf Erni**

In situ observation of nucleation and growth processes of Au nanoparticles at high dose rates. Microscopy Conference 2017, Lausanne, 08-21 to 08-25 ♦

**Kozak Roksolana, Prieto Ivan, Skibitzki Oliver, Arroyo Rojas Dasilva Yadira, Erni Rolf, Schroeder Thomas, von Känel Hans, Rossell Marta D.**

GaAs nanocrystals epitaxially grown on nano-patterned (001) Si substrates – strain and defect distribution. Microscopy Conference 2017, Lausanne, 08-21 to 08-25 ♦

**Marco Campanini Marco Campanini, Erni Rolf, Rossell Marta D.**

Atomic Electric Field Imaging in Multiferroic Materials by Differential-Phase Contrast Microscopy. MARVEL Review and Retreat, Lausanne, 09-07 ♦

**Rossell Marta D.**

Session Chair of "Advanced Microscopy and Microanalysis of Low-Dimensional Structures and Devices". Microscopy and Microanalysis 2017, St. Louis, Missouri, US, 08-06 to 08-10 ▲

**Rossell Marta D.**

Session Chair of "Functional Materials and Semiconductors". Microscopy Conference 2017, Lausanne, 08-21 to 08-25 ▲

**Rossell Marta D., Campanini Marco, Trassin Morgan, Ederer Claude, Erni Rolf**

Understanding the effect of doping and epitaxial strain on the ferroelectric polarization of layered perovskite thin films. Microscopy and Microanalysis 2017, St. Louis, Missouri, US, 08-06 to 08-10 🍄

<b>Electron Microscopy Center</b>	<b>Zhang Yucheng, C. Guerra-Nuñez, I. Utke, J. Michler, M. Rossell, R. Erni</b> Understanding and Controlling Early Stage Nucleation and Growth of TiO <sub>2</sub> on Carbon-based Nanomaterials. Microscopy Conference 2017, Lausanne, 08-21 to 08-25 🍄
<b>Functional Polymers</b>	<b>Anantharaman Surendra</b> Unravelling the Growth Mechanism of 2D J-aggregate Monolayers and Nanocrystals on Modified Surfaces. SAOG 2017, Fribourg, 01-27 ♦
	<b>Anantharaman Surendra, Sergii Yakunin, Chuyao Peng, Marcus V. G. Vismara, Carlos F.O. Graeff, Frank Nüesch, Sandra Jenatsch, Roland Hany, Maksym V. Kovalenko, Jakob Heier</b> Strongly Red-Shifted Photoluminescence Band Induced by Molecular Twisting in Cyanine (Cy3) Dye Films. 4 <sup>th</sup> International Conference on Physical and Theoretical Chemistry, Dublin, IE, 09-18 to 09-19 ♦
	<b>Caspari Philip</b> High permittivity silicones for dielectric elastomer actuators. EuroEAP, Cartagena, ES, 06-06 to 06-07 ♦
	<b>Caspari Philip</b> High permittivity silicones for dielectric elastomer actuators. Swiss Chemical Society Fall Meeting 2017, Bern, 08-21 to 08-22 ♦
	<b>Heier Jakob</b> Was kommt nach dem Öl? Neue Technologien weisen einen Weg in eine Zukunft ohne Öl. Hegau – Bodensee Seminar, Konstanz, DE, 02-06 🍄
	<b>Heier Jakob, Anand Verma, Frank Nüesch, David Martineau, Toby Meyer</b> Printing Perovskite Solar Cells. Swiss ePrint, Basel, 09-26 to 09-27 ♦
	<b>Leclaire Nicolas, A.C. Véron, A. Neels, J. Heier, F. Nüesch</b> Structure and Properties of a Cyanine Quasi-2D Crystal. SoMaS 2017, Mittelwihr, FR, 07-02 to 07-07 ♦
	<b>Makha Mohammed</b> Ternary organic blend for semitransparent solar cells with enhanced short circuit current density. International Conference on Organic Electronics, Singapore, MY, 03-28 to 03-30 🍄
	<b>Makha Mohammed</b> Ternary semitransparent organic solar cells with a laminated top electrode. E-MRS Conference, Strasbourg, FR, 05-25 🍄
	<b>Nüesch Frank</b> Photoconductivity in ionic cyanine films. E-MRS conference, Strasbourg, FR, 05-22 to 05-26 ♦
	<b>Nüesch Frank</b> Thin-Film Photovoltaic Technologies. Summer School 2017: Surfaces and Interfaces, San Sebastian, ES, 06-19 to 06-23 ♦ ○
	<b>Nüesch Frank, Roland Hany</b> Organic NIR active photodetectors and solar cells with high visible transparency. E-MRS Conference, Warschau, PL, 09-18 to 09-21 ♦
	<b>Opris Dorina</b> Elastomeric Electret Composites for self-sensing and energy harvesting applications . Makromolekulares Kolloquium Freiburg 2017, Freiburg, DE, 02-15 to 02-17 ♦
	<b>Opris Dorina</b> High dielectric permittivity elastomers for artificial muscles. Epf Lyon 2017, European Polymer Federation, Lyon, FR, 07-02 to 07-07 🍄
	<b>Opris Dorina</b> Thin functional dielectric elastomers: synthesis and applications. 15 <sup>th</sup> European Conference on Organized Films, Dresden, DE, 07-17 to 07-20 🍄
	<b>Opris Dorina</b> Thin functional dielectric elastomers: synthesis and applications. 16 <sup>th</sup> International Symposium on Electrets, Leuven, BE, 09-04 to 09-08 🍄
	<b>Quinsaat Jose</b> Surface Functionalization of Metal Nanoparticles and the Effect of the Polymer Topology on the Colloidal Stability. Swiss Chemical Society Fall Meeting 2017, Bern, 08-21 to 08-22 🍄
	<b>Sheima Yauhen</b> High permittivity thin elastomer films for low voltage actuators. Swiss Chemical Society Fall Meeting, Bern, 08-22 ♦
	<b>Strassel Karen</b> Squaraine dye for infrared-to-visible up-conversion imaging device . IRTG summer school, Mittelwihr, FR, 07-02 to 07-07 ♦
	<b>Strassel Karen</b> Squaraine dye for infrared-to-visible up-conversion imaging device . Brazil MRS, Gramado, BR, 09-10 to 09-14 🍄
	<b>Verma Anand</b> Large-area Perovskite Solar Cell. 15. Nationale Photovoltaik 2017 , Lausanne, 03-23 to 03-24 ♦
	<b>Verma Anand, Frank Nüesch, Jakob Heier</b> Advanced Coating and Printing at Empa. Printed and Flexible Electronics Congress , London, GB, 02-21 to 02-22 ♦

<b>Functional Polymers</b>	<b>Verma Anand, Jakob Heier, Frank Nüesch, David Martineau, Toby Meyer</b> Peroprint-Printing Perovskite Solar Cells . EU PVSEC 2017 , Amsterdam, NL, 09-25 to 09-30 ◆
<b>Joining Technologies and Corrosion</b>	<b>Araullo-Peters Vicente, Chiodi Mirco, Cancellieri Claudia, Elsener Hans Rudolf, Janczak-Rusch Jolanta, Jeurgens Lars</b> Phase stability and atomic mobility of nano-confined AgCu alloys in AgCu/AlN Nano-Multilayers upon heating. Euromat, Thessaloniki, GR, 09-16 to 09-24 ♣
	<b>Araullo-Peters Vicente, M. Chiodi, C. Cancellieri, H.R. Elsener, J. Janczak-Rusch, L. Jeurgens</b> Tuning the thermal stability of Ag-Cu nanomultilayers by structural design. Swiss Nanoconvention, Fribourg, 06-01 to 06-02 ◆
	<b>Cancellieri Claudia, M. Chiodi, V. Araullo-Peters, L.P.H. Jeurgens, J. Janczak-Rusch</b> Exploring fast diffusion at the nano-scale for nanojoining technologies. DF7 Exmonan Meeting, Moskau, RU, 07-02 to 07-10 ♣
	<b>Cancellieri Claudia, E. Klyatskina, M. Chiodi, V. Araullo-Peters, J. Janczak-Rusch, L. Jeurgens</b> Phase stability and stress evolution of nano-multilayered coatings upon thermal treatment. DF7 Exmonan Meeting, Moskau, RU, 07-02 to 07-10 ♣
	<b>Cancellieri Claudia, F. Evangelisti, M. Stiefel, O. Guseva, R. Partovi Nia, R. Hauert, L. Jeurgens, E. Hack, P. Schmutz</b> Electronic and structural characterization of Barrier anodic aluminum oxides. Euromat, Thessaloniki, GR, 09-16 to 09-24 ♣
	<b>Cancellieri Claudia, M. Chiodi, V. Araullo-Peters, J. Janczak-Rusch, L. Jeurgens</b> The Effect of Thermal Treatment on the Stress State and evolving Microstructure of Nano-Multilayers. Euromat, Thessaloniki, GR, 09-16 to 09-24 ♣
	<b>Cancellieri Claudia, M. Gonzalez-Castano, L. P.H. Jeurgens, P. Schmutz</b> Experimental Assessment of Thin Oxide Microstructure properties Relationship with Computational Validation. Material Science Day, Empa Dübendorf, 10-05 ♣ ○
	<b>Chiodi Mirco, C. Cancellieri, F. Moszner, M. Andrzejczuk, J. Janczak-Rusch, L.P.H. Jeurgens</b> Advanced metal/ceramic nano-multilayers for joining applications: interplay between nano-confinement, stress relaxation and environmental conditions. International Conference on Metallurgical Coatings and Thin Films (ICMCTF), San Diego, US, 04-21 to 04-29 ♣
	<b>Chiodi Mirco, C. Cancellieri, F. Moszner, M. Andrzejczuk, J. Janczak-Rusch, L.P.H. Jeurgens</b> Ag migration in metal/ceramic nano-multilayers: confinement, stress-relaxation and oxygen-mediated mass transport. Ecasia , Montpellier, FR, 09-26 ♣
	<b>Dörner Lars</b> Highly-energetic Al/CuO thermite coatings through nanoparticle composites. PhD – Symposium, Empa Akademie Dübendorf, 11-13 ♣
	<b>Faller Markus</b> Untersuchung der Bruchursache von gerissenen Spanndrähten. Arbeitskreis „Korrosion im Bauwesen“, Helgoland, DE, 06-12 ■
	<b>Faller Markus</b> Elektrochemische Methode zur lokalen Bestimmung von Wasserstoff in Stählen. Arbeitskreis „Korrosion im Bauwesen“, Helgoland, DE, 06-12 ♣
	<b>Hans Ulrik, T. Suter, M. Faller</b> Elektrochemische Methode zur lokalen Bestimmung von Wasserstoff in Stählen. Arbeitskreis „Korrosion im Bauwesen“, Helgoland, DE, 06-12 ♣
	<b>Hans Ulrik, M. Faller</b> Arbeitskreis „Korrosion im Bauwesen“, Helgoland, DE, 06-12 ■
	<b>Hauert Roland</b> Lokale Oberflächenanalytik im Nanometer Bereich (XPS/AES. Eine praxisnahe Einführung in die Oberflächen- und Materialanalyse, Empa Dübendorf, 05-04 ♣
	<b>Hauert Roland, E. Ilic, A. Pardo, P. Schmutz, K. Thorwarth, Ch. Affolter, U. Müller, C.V. Falub, T. Suter, S. Mischler</b> Chemical analysis of buried interfaces and interlayers – correlation to adhesion. Ecasia, Montpellier, FR, 09-24 to 09-29 ♣
	<b>Hauert Roland, K. Thorwarth, C.V. Falub, U. Müller, G. Thorwarth, M. Stiefel, B. Weisse, Ch. Affolter, M. Tobler, C. Voisard</b> State of the art and failure mechanisms of DLC coated articulating joint replacements. EuroSciCon, Biomedical Engineering, anstatt London Internet, 06-07 ♣ ○
	<b>Ilic Emilija</b> A PhD at Empa. Emirates Student Visit , Empa Dübendorf, 08-09 ♣
	<b>Ilic Emilija</b> Demonstration of electrochemical equipment . ETH Student visit to Lab 202, Empa Dübendorf, 04-25 ♣
	<b>Ilic Emilija</b> Leader of the Organizing Committee for the Empa 2017 PhD Symposium . PhD Symposium at Empa Dübendorf, Empa Dübendorf, 11-03 ■



<b>Joining Technologies and Corrosion</b>	<b>Ilic Emilija, P. Schmutz</b> Assisting P. Schmutz Patrik in the organization of the Swiss Corrosion Day. Swiss Corrosion Day , Empa Dübendorf, 04-26 ■
	<b>Ilic Emilija, R. Hauert, P. Schmutz, T. Suter, S. Mischler</b> Crevice and stress corrosion cracking of DLC coated implant interlayers. Eurocorr Conference , Prag, CZ, 09-05 ♣
	<b>Ilic Emilija, R. Hauert, P. Schmutz, T. Suter, S. Mischler, R. Hauert, P. Schmutz, T. Suter, S. Mischler</b> Delayed Delamination Mechanisms of DLC Coatings on Articulating Implants. Euromat Conference , Thessaloniki, GR, 09-18 ♣
	<b>Ilic Emilija, R. Hauert, P. Schmutz, T. Suter, S. Mischler</b> Predicting Deterioration Phenomena at Coating/ Substrate Interfaces. SAOG Meeting, Fribourg, 01-27 ◆
	<b>Janczak-Rusch Jolanta</b> Nanolote: Fügwerkstoffe der Zukunft?. 20. Europäisches Elektroniktechnologie-Kolleg, Colonia de Sant Jordi, ES, 03-29 to 04-02 ♣ ○
	<b>Janczak-Rusch Jolanta, Elsener Hans Rudolf</b> Löten – Möglichkeiten und Grenzen (in unserer Galaxie). Schweisstagung 2017, Emmetten, 11-09 to 11-10 ♣ ○
	<b>Janczak-Rusch Jolanta, F. Moszner, G. Mata Osoro, M. Chiodi, G. Blugan, J. Kübler, L. P.-H. Jeurgens</b> Elevated temperature mechanical behaviour of SiC-joints brazed with AgCuInTi (Incusil ABA®) filler. IIW Annual Assembly, Annual Meeting of Commission XVII – Brazing, Diffusion Bonding and Soldering, Shanghai, CN, 06-26 ♣
	<b>Janczak-Rusch Jolanta, M. Chiodi, C. Cancellieri, F. Moszner, M. Andrzejczuk and L. P. H. Jeurgens</b> Nano-structured Ag brazing fillers in a multilayer configuration: controlling the mass transport. IIW Annual Assembly, Workshop of Commission VII: Microjoining and Nanojoining, Shanghai, CN, 06-27 ♣
	<b>Janczak-Rusch Jolanta, Rheingans Bastian, Neuenschwander Jörg, Furrer Roman, Schumacher Alex, Knappmann Stefan, Jeurgens Lars</b> Exploring the application range of reactive joining technology: soldering and characterization of joints with Ni/Al NanoFoil®. Intermediate Meeting of IIW Commission XVII: Microjoining and Nanojoining, Dresden, DE, 04-24 to 04-25 ♣
	<b>Jeurgens Lars</b> Development and application of nano-structured materials for nanojoining. Seminar, University of Brescia, IT, 03-16 ♣
	<b>Jeurgens Lars</b> Co-organizer of the Nano and Micro Welding and Joining Sessions. 70 <sup>th</sup> Annual Assembly and International Conference of the International Institute of Welding (IIW), Shanghai, CN, 06-24 to 07-02 ■
	<b>Jeurgens Lars</b> Key note: Fast Directional Mass Transport at the Nano-Scale – An Opportunity for Nanojoining. IIW International Conference, Nano and Micro Welding and Joining Session IC-E1, Shanghai, CN, 06-29 ♣ ○
	<b>Jeurgens Lars</b> Interface Design for Micro-/Nano-Joining Technologies. Herbstschule TU Freiberg, Freiberg, DE, 09-12 ♣
	<b>Jeurgens Lars, B. Rheingans, J. Neuenschwander, R. Furrer, A. Schumacher, S. Knappmann, J. Janczak-Rusch</b> Effect of heat evolution on microstructure and joint performance upon soldering with reactive nano-multilayers. IIW Annual Assembly, Joint meeting of C-VII and C-XVII on Brazing, Soldering and Diffusion Bonding with Nanomaterials, Shanghai, CN, 06-27 ♣
	<b>Jeurgens Lars, F. Evangelisti, O. Guseva, R. Hauert, F. Ambrosio, A. Pasquarello, P. Schmutz, C. Cancellieri</b> Dielectric response of anodic aluminium oxide layers by impedance spectroscopy and XPS chemical state analysis. Ecasia, Montpellier, FR, 09-28 ♣
	<b>Jeurgens Lars, M. Chiodi, V. Araullo-Peters, C. Cancellieri, J. Janczak-Rusch</b> Application of nanostructured materials for novel nano-joining technologies. National Institute of Advanced Industrial Science and Technology (AIST), Empa Dübendorf, 05-31 ♣
	<b>Jeurgens Lars, M. Chiodi, V. Araullo-Peters, C. Cancellieri, J. Janczak-Rusch</b> Directional mass transport of nano-confined metals and alloys in nanomultilayers. DIMAT, Haifa, IL, 05-07 to 05-12 ♣
	<b>Jeurgens Lars, M. Chiodi, V. Araullo-Peters, C. Cancellieri, J. Janczak-Rusch</b> Exploiting Fast Directional Mass Transport at the Nano-Scale for localized bonding at reduced temperatures. IIW Annual Assembly, Annual Meeting of Commission XVII – Brazing, Diffusion Bonding and Soldering, Shanghai, CN, 06-26 ♣
	<b>Lipecka Joanna, M. Lewandowska, M. Andrzejczuk, J. Lipecza, M. Chiodi, L.P.H. Jeurgens, J. Janczak-Rusch</b> Microstructural evolution of Ag/AlN and Ag-Cu/AlN nanomultilayers upon heating. EM2017 , Jachranka, PL, 06-19 to 06-25 ◆
	<b>Lipecka Joanna, J. Janczak-Rusch, M. Lewandowska, M. Andrzejczuk, G. Richter, L.P.H. Jeurgens</b> The melting behaviour of Al/AlN nanomultilayer system. EM2017, Jachranka, PL, 06-19 to 06-25 ♣

<b>Joining Technologies and Corrosion</b>	<b>Pardo Perez Ainhoa, E. Ilic, P. Schmutz, T. Suter, K. Thorwarth, R. Hauert</b> Advances in lifetime predictions of DLC coated articulating implants. 23 <sup>th</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017): Advances in Antimicrobial Biomaterials., Empa St. Gallen, 05-17 to 05-18 ◆
	<b>Pardo Perez Ainhoa, I. Ilic, P. Schutz, R. Hauert</b> Towards realistic lifetime estimation of carbon coated articulating implants. DRM 2017, Göteborg, SE, 09-02 to 09-08 🍄
	<b>Rheingans Bastian, I. Spies, A. Schumacher, J. Janczak-Rusch, S. Knappmann, L.P.H. Jeurgens</b> Effect of heat evolution on microstructure and joint performance upon soldering with reactive nano-multilayers. Euromat, Thessaloniki, GR, 09-18 🍄
	<b>Rheingans Bastian, J. Janczak-Rusch, J. Neuenschwander, R. Furrer, A. Schumacher, I. Spies, S. Knappmann, L.P.H. Jeurgens</b> Development of reactive joining technologies for electronic packaging and assembly. Swissphotonics Workshop "Miniaturized Photonic Packaging", CSEM, Alpnach, 05-16 🍄
	<b>Rheingans Bastian, J. Janczak-Rusch, L.P.H. Jeurgens, A. Schumacher, I. Spies, S. Knappmann</b> Joining with reactive nano-multilayer foils. ABB Research Seminar, ABB, Baden-Dättwil, 08-31 🍄 ○
	<b>Rheingans Bastian, J. Janczak-Rusch, L.P.H. Jeurgens, A. Schumacher, I. Spies, S. Knappmann</b> Reactive nano-multilayers as local heat source for joining. Swiss Nanoconvention, Fribourg, 06-01 ◆
	<b>Schmutz Patrik</b> Korrosion in der Medizintechnik. 10. Materialographie-Tagung des SVMT, 15 November, Winterthur, 11-15 🍄
	<b>Schmutz Patrik</b> Sonderveranstaltung Thurgauer Technologieforum, 29. November. Oberflächenbehandlung von Metallen und Korrosion – Neues aus der Forschung, Sunnen, 11-29 🍄
	<b>Schmutz Patrik, P. Schmutz, C. Cancellieri, F. Evangelisti, A. Beni, L.P.H. Jeurgens,</b> Electrochemical reactivity and corrosion of Al-based Complex Metallic Alloys and amorphous oxides". NACE Meeting 2017, March 26-30, New Orleans, US, 03-26 to 03-30 🍄
	<b>Siol Sebastian, J. C. Hellmann, S. D. Tilley, M. Graetzel, J. Morasch, J. Deuermeier, W. Jaegermann, A. Klein</b> Band Alignment Engineering at Semiconductor Heterointerfaces using in-situ Photoelectron Spectroscopy. Ecasia 2017, Montpellier, FR, 09-24 to 09-29 🍄
	<b>Suter Thomas</b> Möglichkeiten und Grenzen der lokalen, elektrochemischen Wasserstoffdetektion. Jährliches Hochschulpraktikum „Wasserstoff in Metallen“ an der Ruhruniversität, Bochum, DE, 02-14 to 02-15 🍄
	<b>Suter Thomas, Patrik Schmutz</b> „Einführung in die Korrosion“. Empa- FSRM Kurs (Workshop) „Elektrochemische Charakterisierung und Korrosion“, Empa Akademie Dübendorf, 06-01 🍄
	<b>Suter Thomas, Patrik Schmutz</b> Jährlicher Empa- FSRM Kurs (Workshop) „Elektrochemische Charakterisierung und Korrosion“, Empa Akademie, 06-01 ■
	<b>Thomas Suter, Patrik Schmutz</b> Lokale, elektrochemische Kapillar-Messmethoden mit Beispielen“. Empa- FSRM Kurs (Workshop) „Elektrochemische Charakterisierung und Korrosion“, Empa Akademie Dübendorf, 06-01 🍄
	<b>Tuchs Schmid Martin</b> Salzsäure-haltige Brandgase. Unternehmerfrühstück Belfor Gisikon, Gisikon, 05-04 🍄
	<b>Tuchs Schmid Martin</b> Brandschäden Schweiz – Aktuelle Trends: Salzsäure-haltige Brandgase. Unternehmerfrühstück Belfor St. Gallen, St. Gallen, 06-08 🍄
	<b>Tuchs Schmid Martin</b> Brandschäden Schweiz – Aktuelle Trends: Brände auf Baustellen. Alvisa Zukunftstag, Dielsdorf, 06-09 🍄
	<b>Tuchs Schmid Martin, Belfor AG</b> Herausforderung Brandschaden, Empa Akademie Dübendorf, 11-30 ■
	<b>Arabi-Hashemi Ariyan, Leinenbach Christian</b> Role of precipitates on the formation of recovery stresses in FeMnSi based shape memory alloys. ICOMAT 2017, Chicago, US, 07-09 to 07-14 🍄
	<b>Arabi-Hashemi Ariyan, Leinenbach Christian</b> Einfluss von Ausscheidungen auf die Rückverformungsspannung von FeMnSi basierten Formgedächtnislegierungen. Werkstoffwoche 2017, Dresden, DE, 09-27 to 09-29 🍄
	<b>Griffiths Seth, Wasyliszyn Marek, Leinenbach Christian</b> Rapid Solidification Experiments with CM247LC. Alloys for Additive Manufacturing Symposium 2017, Dübendorf, 09-11 to 09-12 ◆
	<b>Hoffmann Patrik</b> Additive Manufacturing. 12. Zerspanungsseminar, Olten, 01-18 🍄 ○
	<b>Hoffmann Patrik</b> Additive Manufacturing. 12ieme Seminaire d'usage Swissmen, Yverdon, 01-19 🍄 ○

<b>Joining Technologies and Corrosion</b>	<b>Hoffmann Patrik</b> Physical limits of 3-D additive manufacturing. Series of presentations, ETHZ Hauptgebäude, 03-14 ♣ ○
	<b>Hoffmann Patrik</b> Technology Briefing Empa Thun "Laser – das perfekte Werkzeug", Thun, 05-10 ■
	<b>Hoffmann Patrik</b> Empa Materials Science & Technology. SZ-US DEA Workshop, Armasuisse GHH Thun, 05-22 ♣ ○
	<b>Hoffmann Patrik</b> Laser materials processing + wetting properties. Workshop 8 des IPL PZ Hard-Coating, Brugg - Windisch, 05-30 ♣ ○
	<b>Hoffmann Patrik</b> Networking – as a scientist. netWORK2shop at Joint EuroCVD 21 & Baltic ALD 15, Linköping, SE, 06-11 ♣ ○
	<b>Hoffmann Patrik</b> Déposition sélective – le rêve revient. EPHJ Salon International, Genève, 06-21 ♣ ○
	<b>Hoffmann Patrik</b> CE-7: Novel optical materials and devices. CLEO@/Europe-EQEC 2017, Munich, DE, 06-25 to 06-29 ▲
	<b>Hoffmann Patrik</b> Laser materials processing of optical materials and characterization. 2017 Conference on Lasers and Electro-Optics Europe & European Quantum Electronics Conference CE-11.1 THU (Invited) 16:00, Munich, DE, 06-29 ♣ ○
	<b>Hoffmann Patrik</b> 3D printing at Empa. CSEM seminar, CSEM Neuchâtel, 07-06 ♣ ○
	<b>Hoffmann Patrik</b> L'impression 3-D des métaux – comment ca marche?. Inauguration du Addipole , St-Croix, 09-29 ♣ ○
	<b>Hoffmann Patrik</b> powder bed – powder jet – or wire feed where are the challenges in metal 3-D printing. First National Conference on Additive Manufacturing, Forum Messe Luzern, 10-31 ♣ ○
	<b>Hoffmann Patrik</b> Is Atomic Layer Deposition (ALD) a specialized type of Chemical Vapor Deposition (CVD) ?. European Coating Symposium 2017, Fribourg, 11-08 to 11-10 ♣ ○
	<b>Kwon Hansang, Park Gwangjae, Park Jaehong, Leparoux Marc, Kawasaki Akira</b> Single walled carbon nanotubes-reinforced various metal matrix composite materials by spark plasma sintering process. Advances in Functional Materials, Los Angeles, US, 08-14 to 08-17 ♣
	<b>Kwon Hansang, Park Kwangjae, Park Jehong, Joo Sungwook, Hong Sanghwui, Mun Jihum, Leparoux Marc</b> Single Walled Carbon Nanotube Reinforced Metal Matrix Composites. International Conference on Advanced Technology Innovation 2017, Samui, TH, 06-25 to 06-28 ♣
	<b>Lanfant Briac, Mehari Asfaha, Mohanta Antaryami, Leparoux Marc</b> Lightweight metal matrix composites reinforced with carbonaceous nanoparticulate materials. Nano-Carbon Enhanced Materials (NCEM) consortium, Madrid, ES, 01-20 ♣ ○
	<b>Lanfant Briac, Nagumothu Kishore Babu, Leparoux Marc, Kallip Kaspar</b> Microstructure and strengthening mechanisms of Al-based compo-sites reinforced with ceramic nanoparticles. PMF 2017, Toulouse, FR, 05-03 to 05-05 ♣
	<b>Le Dantec Marie , Abdulstaar Mustafa, Leistner Matthias, Leparoux Marc, Hoffmann Patrik</b> Additive Manufacturing of Semiconductor Silicon on Silicon by Direct Laser Melting. Additive Manufacturing for Products and Applications (AMPA), Zürich, 09-13 to 09-15 ♣
	<b>Leinenbach Christian</b> Empa Technology Briefing "Additive Manufacturing – quo vadis II?", Dübendorf, 01-18 ■
	<b>Leinenbach Christian</b> Designing Novel Alloys for Laser Additive Manufacturing – Challenges and Opportunities. Imperial College Royal School of Mines Materials Seminar, London, GB, 05-03 ♣ ○
	<b>Leinenbach Christian</b> 3D-Druck und Industrie 4.0 – Zukünftige Technologieentwicklungen und ihre Auswirkungen auf unsere Industrie. Alu-Kongress 2017 „Neue Technologien für die Schweizer Aluminiumindustrie“, Ittigen, 05-18 to 10-18 ♣ ○
	<b>Leinenbach Christian</b> Alloys for Additive Manufacturing Symposium (AAMS) 2017, Dübendorf, 09-10 to 09-12 ■
	<b>Leinenbach Christian</b> Additive Fertigung von Titanlegierungen – Herausforderungen und Möglichkeiten. Titan-Seminar Fa. Hempel Special Metals, Dübendorf, 09-20 ♣ ○
	<b>Leinenbach Christian</b> Additive Fertigung von Metallen – Herausforderungen und Chancen. Physikalische Gesellschaft Zürich Seminar, Zürich, 12-14 ♣ ○
	<b>Leinenbach Christian, Kenel Christoph, Ivas Toni, Li Xiaoshuang</b> Unraveling out-of-equilibrium phase and microstructure formation in alloys – towards alloy design for additive manufacturing. TMS Annual Meeting 2017, San Diego, US, 02-26 to 03-02 ♣ ○

## Joining Technologies and Corrosion

	<p><b>Leparoux Marc</b> Thermal Plasma Synthesis of Nanoparticles as Reinforcement Material for Composites with Outstanding Mechanical Properties. Symposium: Gas-phase Synthesis of Functional Nanomaterials: Fundamental Understanding, Modeling and Simulation, Scale-up, Duisburg, DE, 03-21 to 03-22 🍄 ○</p>
	<p><b>Leparoux Marc</b> Synthesis of functional nanomaterials using a RF thermal plasma. PMF2017 – Colloque Poudre &amp; Matériaux Frittés, Toulouse, FR, 05-03 to 05-05 🍄 ○</p>
	<p><b>Leparoux Marc, Antaryami Mohanta, Briac Lanfant</b> Spectroscopic Analysis for Understanding the Growth Process of Graphene Nanoflakes in Inductively-coupled Thermal Plasma. Symposium: Gas-phase Synthesis of Functional Nanomaterials: Fundamental Understanding, Modeling and Simulation, Scale-up, Duisburg, DE, 03-21 to 03-22 🍄 ○</p>
	<p><b>Leparoux Marc, Antaryami Mohanta, Briac Lanfant, Mehari Asfaha</b> In-situ characterization of nanoparticle synthesis in inductively coupled thermal plasma. 2<sup>nd</sup> Workshop Advances in materials development, Prague, CZ, 04-24 to 04-25 🍄 ○</p>
	<p><b>Leparoux Marc, Le Dantec Marie, Abdulstaar Mustafa, Hoffmann Patrik</b> Fabrication of aluminium matrix nanocomposite powders by powder metallurgy . Alloys for Additive Manufacturing, Dübendorf, 09-11 to 09-12 ◆</p>
	<p><b>Li Xiaoshuang, Spierings Adriaan B., Wegener Konrad, Leinenbach Christian</b> An Innovative Way to Develop Cu-Sn Based Alloys for Additive Manufacturing. Alloys for Additive Manufacturing Symposium (AAMS) 2017, Dübendorf, 09-10 to 09-12 ◆</p>
	<p><b>Li Xiaoshuang, Spierings Adriaan B., Wegener Konrad, Leinenbach Christian</b> Alloy design for additive manufacturing: rapid solidification studies on CuSn and CuSnTi alloys . EUROMAT 2017, Thessaloniki, GR, 09-17 to 09-22 🍄</p>
	<p><b>Meylan Bastian</b> An ImageJ plugin for in situ monitoring of wear rate in a complex tribological system. Topical Day – Imaging and Image Analysis IX, Dübendorf, 04-04 🍄 ○</p>
	<p><b>Mohanta Antaryami, Lanfant Briac, Asfaha Mehari, Leparoux Marc</b> Spectroscopic investigation of Ar/H<sub>2</sub>/CH<sub>4</sub> induction thermal plasma for understanding synthesis of graphene nano-flake. EGF European Graphene Forum, Paris, FR, 04-26 to 04-28 🍄</p>
	<p><b>Nguendon Hervé K., Faivre Neige, Meylan Bastian, Shevchik Sergey A., Rauter Georg, Guzman Raphael, Cattin Philippe C, Wasmer Kilian, Zam Azhar</b> Characterization of ablated porcine bone and muscle using laser-induced acoustic wave method for tissue differentiations. Photographic Instrumentation Engineers (SPIE 2017), Medical Laser Applications and Laser-Tissue Interactions VIII, München, DE, 06-26 to 06-30 🍄</p>
	<p><b>Park Kwangjae, Park Jehong, Leparoux Marc, Kawasaki Akira, Kwon Hansang</b> Al-SU316L composite materials fabricated by spark plasma sintering proces. Advances in Functional Materials, Los Angeles, US, 08-14 to 08-17 🍄</p>
	<p><b>Saeidi Fatemeh</b> Polymers and PMCs: Polymers/Elastomers. Friction, Wear, and Wear protection 2017, Ettlingen, DE, 02-20 to 02-23 ▲</p>
	<p><b>Saeidi Fatemeh, Freidy Mouhamad Ali, Wasmer Kilian</b> Nanosecond laser ablation of different crystallographic planes of sapphire. Lasers in Manufacturing Conference 2017, München, DE, 06-26 to 06-29 🍄</p>
	<p><b>Saeidi Fatemeh, Taylor Aidan, Meylan Bastian, Hoffmann Patrik, Wasmer Kilian</b> How scuffing initiates in grey cast iron-steel tribo-system?. Friction, Wear, and Wear protection 2017, Ettlingen, DE, 02-20 to 02-23 🍄</p>
	<p><b>Shevchik Sergey A., Wasmer Kilian</b> Quality monitoring in laser welding using multi-kernel Laplacian graph support vector machine. Swiss Machine Learning Day 2017, Lausanne, 11-28 🍄 ○</p>
	<p><b>Vakili-Farahani Farzad, Lungershausen Jörn, Wasmer Kilian</b> Wobbled Laser Beam Welding for Macro-to Micro-Fabrication Process. 19<sup>th</sup> International Conference on Optics, Lasers and Spectroscopy (ICOLS 2017), Zürich, 01-13 to 01-14 🍄</p>
	<p><b>Vaucher Sébastien</b> Modification of Inorganic Materials using Microwave Energy: Real-Time Observation using X-ray methods. International Conference of Science and Technology Innovation, STI-Gigaku 2017, Nagaoka University of Technology, JP, 01-05 to 01-07 🍄 ○</p>
	<p><b>Vaucher Sébastien</b> Advanced Experimental Studies of Physical Mechanisms behind Microwave Processing of Materials. 18<sup>th</sup> International Symposium on Eco-materials Processing and Design ISEPD 2017, Okinawa Jichikaikan, Okinawa, JP, 02-17 to 02-20 🍄 ○</p>
	<p><b>Vaucher Sébastien</b> Real-time Diffraction and Tomography during Microwave Processing of Materials . 1<sup>st</sup> International Symposium on Future Innovative Reliable Materials, Nagaoka University of Technology, JP, 03-10 to 03-11 🍄 ○</p>
	<p><b>Wasmer Kilian</b> Impression par Laser 3D : de la production à l'enseignement. EPHJ Salon International, Genève, 06-22 ■ ○</p>

<b>Joining Technologies and Corrosion</b>	<b>Wasmer Kilian, Shevchik Sergey A., Meylan Bastian, Saeidi Fatemeh, Vakili-Farahani Farzad, Violakis Georgios., Mader Arnaud, Ramseier Peter, Faivre Neige</b> In situ and real time monitoring of Laser and AM processes. Topical Day at Empa: Laser – L’Outil Parfait, Thun, 05-10 🍄 ○
	<b>Wasmer Kilian, Kenel Christoph, Leinenbach Christian, Shevchik Sergey A.</b> In Situ And Real-Time Monitoring Of Powder-Bed AM By Combining Acoustic Emission And Artificial Intelligence. Additive Manufacturing for Products and Applications Conference 2017 (AMPA), Zürich, 07-13 to 07-15 🍄 ○
	<b>Wasmer Kilian, Kenel Christoph, Leinenbach Christian, Shevchik Sergey A.</b> In Situ And Real-Time Monitoring Of Powder-Bed AM By Combining Acoustic Emission And Machine Learning. Laser in Manufacturing – LiM 2017, München, DE, 06-26 to 06-30 🍄 ○
	<b>Wasmer Kilian, Kenel Christoph, Leinenbach Christian, Shevchik Sergey A.</b> In Situ Quality Monitoring in AM Using Acoustic Emission: A Machine Learning Approach. Material Science & Technology Conference 2017 (MS&T17), Pittsburgh, US, 10-08 to 10-12 🍄 ○
	<b>Wasmer Kilian, Saeidi Fatemeh, Meylan Bastian, Vakili-Farahani Farzad, Shevchik Sergey A.</b> When AE (Acoustic Emission) meets AI (Artificial Intelligence). 21. Kolloquium Schallemission, Fulda, DE, 03-09 to 03-10 🍄 ○
<b>Mechanics of Materials and Nanostructures</b>	<b>Ast Johannes</b> Strukturelle und Mechanische Charakterisierung von Superlegierungsbeschichtungen zum Einsatz in Flugzeugturbinen. 41. Sitzung der SVMT-Fachgruppe "Strukturintegrität", Thun, 05-02 🍄
	<b>Ast Johannes, Maeder Xavier, Wheeler Jeffrey, Mohanty Gaurav, Wehrs Juri, Schwiedrzik Jakob, Michler Johann</b> Recent advances in nanomechanical testing: variable temperature, high strain rates, in-situ EBSD. LNM Workshop, Sargans, 05-31 to 06-02 🍄 ○
	<b>Ast Johannes, Michler Johann, Maeder Xavier</b> In-situ HR-EBSD characterization during micro-cantilever testing in SX-W. EuFN 2017, Graz, AT, 07-04 to 07-05 🍄
	<b>Ast Johannes, Schwiedrzik Jakob, Wehrs Juri, Frey Damian, Michler Johann, Maeder Xavier</b> The brittle-ductile transition of tungsten single crystals at the micro-scale. Nanomechanical Testing in Materials Research and Development VI, Dubrovnik, HR, 10-01 to 10-06 🍄
	<b>Ast Johannes, Wehrs Juri, Michler Johann, Maeder Xavier</b> Fracture testing at the micro-scale at elevated temperatures in tungsten. TMS Annual meeting and exhibition 2017, San Diego, US, 02-26 to 03-03 🍄
	<b>Berger Luisa, Madajska Katarzyna, Szymanska Iwona, Polyakov Mikhail, Jurczyk Jakub, Höflich Katja, Utke Ivo</b> Gas Assisted Silver Deposition via Focused Electron Beam. EUFN Workshop 2017, Graz, AT, 07-04 to 07-05 🍄
	<b>Berger Luisa, Madajska Katarzyna, Szymanska Iwona, Polyakov Mikhail, Jurczyk Jakub, Guerra-Nuñez Carlos, Höflich Katja, Utke Ivo</b> Gas Assisted Silver Deposition with a Focused Electron Beam. 4 <sup>th</sup> CELINA Meeting, Porto, PT, 09-13 to 09-16 ◆
	<b>Bertero Enrico, Hasegawa Madoka, Sort Jordi, Pellicer Eva, Hermann Inge Katrin, Doebeli Max, Cesilius Henrikas, Asadauskas Svajus, Tsyntaru Natalia, Mischler Stefano, Michler Johann, Philippe Laetitia</b> Electrodeposition of stainless steel-like films: material properties and influence of impurities. SELECTA – Summer School, Ioannina, GR, 09-03 to 09-07 ◆
	<b>Best James</b> Small-scale Mechanics of Hard-Coated Tool Systems. 41. Sitzung der SVMT-Fachgruppe "Strukturintegrität", Thun, 05-02 🍄
	<b>Casari Daniele, Michler Johann, Zysset Philippe, Schwiedrzik Jakob</b> Experimental design for uniaxial tensile measurements at the microscale. Nanomechanical Testing in Materials Research and Development VI, Dubrovnik, HR, 10-01 to 10-06 ◆
	<b>Casari Daniele, Michler Johann, Zysset Philippe, Schwiedrzik Jakob</b> Experimental design for uniaxial tensile measurements on bone tis-sue at the lamellar scale. Empa PhD Symposium 2017, Dübendorf, 11-13 ◆
	<b>Guerra-Nuñez Carlos, Döbeli Max, Michler Johann, Utke Ivo</b> Reaction and Growth Mechanisms in Al <sub>2</sub> O <sub>3</sub> deposited via Atomic Layer Deposition: Elucidating the Hydrogen Source. Euro CVD and Baltic ALD 2017, Linköping, SE, 06-11 to 06-14 🍄
	<b>Jurczyk Jakub, Höflich Katja, Zhang Yucheng, Erni Rolf, Kapusta Czeslaw, Utke Ivo</b> Comparison of gas silver precursor for FEBID: silver-dimethylbutyrate and silver-butylacetylid. 4 <sup>th</sup> CELINA Meeting, Porto, PT, 09-13 to 09-16 ◆
	<b>Könnyu Bence, Petho Laszlo, Schwiedrzik Johann Jakob, Mohanty Gaurav, Maeder Xavier, Polyakov Mikhail, Schoeppner Rachel, Thomas Keith, Michler Johann</b> Investigation of mechanical properties of nanoparticle contaminated thin film metallic glasse. Scientific Students' Associations Conference, Budapest, HU, 11-16 🍄
<b>Maeder Xavier</b> H1. Advanced Microstructural Characterization of Thin Films and Engineered Surfaces. ICMCTF, International Conference on Metallurgical Coatings and Thin Films, San Diego, US, 04-24 to 04-28 ▲	



**Maeder Xavier, Ast Johannes, Guo Yi, Polyakov Mikhail, Arabi-Hashemi Ariyan, Schwiedrzik Jakob, Michler Johann**

In situ HR-EBSD during micro-mechanical testing for microstructure, stress and plastic deformation characterizations in material . ECI Nanomechanical Testing in Materials Research and Development Conference 2017, Dubrovnik, HR, 10-01 to 10-06 🍄

**Maeder Xavier, Ast Johannes, Guo Yi, Michler Johann**

In-situ HR-EBSD characterization during micro-mechanical testing . Microscopy Conference 2017, Lausanne, 08-21 to 08-25 🍄

**Maeder Xavier, Ast Johannes, Guo Yi, Polyakov Mikhail, Scwiedrzik Jakob, Mohanty Gaurav, Michler Johann**

Advanced EBSD and in-situ-EBSD techniques for microstructure, crack, fatigue, and plastic deformation characterization in metals and thin films. ICMCTF, International Conference on Metallurgical Coatings and Thin Films, San Diego, US, 04-24 to 04-28 🍄

**Maeder Xavier, Ast Johannes, Michler Johann**

Stress field and plastic deformation mapping during micro-cantilever bending at room and elevated temperature using in-situ HR-EBSD characterization. RMS EBSD 2017, Oxford, GB, 04-04 to 04-05 🍄

**Maeder Xavier, Ast Johannes, Michler Johann**

Stress field and plastic deformation mapping in room and elevated temperature micro-cantilever testing via in-situ HR-EBSD characterization. Euromat conference 2017, Thessaloniki, GR, 09-18 to 09-22 🍄

**Maeder Xavier, Michler Johann, Yallup Kevin, Zwahlen Pascal, Brisson Raphaël**

SPAC: Shock Proof Accelerometer for high performance in harsh environments. CTI Micro-Nano Event, Fribourg, 06-01 to 06-02 🍄

**Maeder Xavier, Pillatsch Lex, Whitby James, Ast Johannes, Michler Johann**

Quadprobe FIB-SEM: Integrating x-ray and laser beams and advanced microanalysis techniques such as TOFSIMS and in situ EBSD during micromechanical testing. Tescan FIB user meeting, Brno, CZ, 09-25 to 09-26 🍄 ○

**Maeder Xavier, Polyakov Mikhail, Michler Johann**

Transmission electron backscatter diffraction for thin film characterization. Euromat conference 2017, Thessaloniki, GR, 09-18 to 09-22 🍄

**Manzano Cristina V., Pethö Laszlo, Bürki Gerhard, Michler Johann, Philippe Laetitia**

Colour Control of Metal-Anodic Aluminium Oxide-Al Nanostructures by Morphological Parameters of Self-Ordered Anodic Aluminium Oxide Films. Anodize it! 2017 Conference, Toulouse, FR, 07-11 to 07-13 🍄

**Manzano Cristina V., Pethö Laszlo, Michler Johann, Philippe Laetitia**

Determining the Diffusion Mechanism for High Aspect-ratio ZnO Nanowires Electrodeposited into Anodic Aluminum Oxide . 12<sup>th</sup> International Workshop on Electrodeposited Nanostructures, Sofia, BG, 03-16 to 03-18 🍄

**Manzano Cristina V., Philippe Laetitia**

Innovative method to obtain white alumina. CTI Micro-Nano Event, Fribourg, 06-01 to 06-02 🍄

**Michler Johann**

Recent advances in nanomechanical testing: variable temperature, ultrahigh strain rates, in situ EBSD and in situ AFM experiments. International Conference on Metallurgical Coatings and Thin Films (ICMCTF), San Diego, US, 04-23 to 04-28 🍄 ○

**Michler Johann**

Small scale mechanical behavior of metallic glasses. EMN Metallic Glass 2017, Berlin, DE, 08-06 to 08-11 🍄 ○

**Michler Johann**

Industrial and medical applications of small scale mechanical testing under extreme conditions. Strengthenable workshop, at Fraunhofer Institute for Electronic Nano Systems Chemnitz, Chemnitz, DE, 09-20 🍄

**Michler Johann**

Industrial application of small scale mechanical testing. ECI Conference on Nanomechanical Testing, Dubrovnik, HR, 10-01 to 10-06 🍄 ○

**Michler Johann**

Recent advances in nanomechanical testing. MS&T 17, Materials Science and technology, Pittsburgh, US, 10-08 to 10-13 🍄 ○

**Michler Johann**

Mechanical Properties of Materials and Devices at the Microscale under Extreme Conditions of High and Low Temperatures and High Strain rates: A Swiss Journey from Mechanical Watches to Human Bone. IMS Distinguished Lecture, Los Alamos, US, 10-18 to 10-20 🍄 ○

**Mieszala Maxime, Guillonau Gaylord, Hasegawa Madoka, Raghavan Rejin, Wheeler Jeffrey M., Mischler Stefano, Michler Johann, Philippe Laetitia**

Effect of nanoscale twin orientation on the mechanical properties of electrodeposited copper films. E-MRS Spring Meeting 2017, Strasbourg, FR, 05-22 to 05-24 🍄

**Mieszala Maxime, Guillonau Gaylord, Bauer Jens, Kraft Oliver, Michler Johann, Philippe Laetitia**

Mechanical behaviour and size effects of polymer, amorphous NiB composites with 3D micro-architectures. ECI Nanomechanical Testing in Materials Research and Development VI, Dubrovnik, HR, 10-01 to 10-06 🍄



<b>Mechanics of Materials and Nanostructures</b>	<p><b>Mieszala Maxime, Pethö Laszlo, Michler Johann, Hasegawa Madoka, Bauer Jens, Kraft Oliver, Philippe Laetitia</b> Micro-mechanics of amorphous metal, polymer hybrid structures with 3D cellular architectures: size effects, buckling behavior and energy absorption capability. DPG-Frühjahrstagung, Dresden, DE, 03-19 to 03-24 🍀</p>
	<p><b>Pethö Laszlo, Montinaro Enrica, Grisi Marco, Letizia Maria Cristina, Gijs Martin, Guidetti Roberto, Michler Johann, Brugger Jürgen, Boero Giovanni</b> Microfabrication of fluidic microchannels for in-vivo subnanoliter NMR spectroscopy by two-photon lithography. Binnig and Rohrer Nanotechnology Center Scientific Symposium, Zürich, 10-24 ♦</p>
	<p><b>Pethö Laszlo, Schürch Patrik, Mieszala Maxime, Schwierdzik Jakob, Wheeler Jeffrey, Philippe Laetitia, Michler Johann</b> Nanomechanical test specimen preparation techniques by microfabrication and two-photon polymerization to avoid FIB induced implantation damage. ECI Nanomechanical Testing in Materials Research and Development VI, Dubrovnik, HR, 10-01 to 10-06 ♦</p>
	<p><b>Pethö Laszlo, Schürch Patrik, Mieszala Maxime, Schwierdzik Jakob, Wheeler Jeffrey Philippe Laetitia, Michler Johann</b> Nanomechanical test specimen preparation techniques by microfabrication and two-photon polymerization to avoid FIB induced implantation damage. Binnig and Rohrer Nanotechnology Center Scientific Symposium, Zürich, 10-24 ♦</p>
	<p><b>Philippe Laetitia</b> Innovative method to obtain white alumina. CTI micro-nano event 2017, Fribourg, 06-01 ♦</p>
	<p><b>Pillatsch Lex, Östlund Fredrik, Michler Johann</b> FIBSIMS: Analysis of the sample composition by Secondary Ion Mass Spectroscopy. EUFN 2017, Graz, AT, 07-04 to 07-05 ♦</p>
	<p><b>Pillatsch Lex, Östlund Fredrik, Michler Johann</b> SIMS-AFM-SEM combination for elemental mapping and 3D reconstruction. EUFN 2017, Graz, AT, 07-04 to 07-05 🍀</p>
	<p><b>Pillatsch Lex, Östlund Fredrik, Priebe Agnieszka, Michler Johann</b> Correlative FIB-TOFIMS, AFM and SEM technique for analysing 3D elemental and topological structure of material. Microscopy Conference 2017, Lausanne, 08-21 to 08-25 ♦</p>
	<p><b>Pillatsch Lex, Priebe Agnieszka, Oestlund Fredrik, Michler Johann</b> FIBSIMS: Secondary Ion Mass Spectrometry capability integrated on an FIBSEM instrument. ECASIA 2017, Montpellier, FR, 09-24 to 09-29 ♦</p>
	<p><b>Pillatsch Lex, Priebe Agnieszka, Oestlund Fredrik, Michler Johann</b> SIMS-AFM-SEM combination for elemental mapping and 3D reconstruction. ECASIA 2017, Montpellier, FR, 09-24 to 09-29 🍀</p>
	<p><b>Polyakov Mikhail, Maeder Xavier, Michler Johann</b> Transmission Kikuchi diffraction for thin film applications. EBSD 2017, Oxford, GB, 04-04 to 04-05 🍀</p>
	<p><b>Polyakov Mikhail, Maeder Xavier, Gruber Patric, Michler Johann</b> Synchrotron and Transmission Kikuchi Diffraction Characterization of Deformed Multilayer Thin Films on Polyimide. ICMCTF 2017, San Diego, US, 04-24 to 04-28 🍀</p>
	<p><b>Ruoho Mikko, Guerra-Nuñez Carlos, Polyakov Mikhail, Maeder Xavier, Spring Philip, Andreus Bernhard, Utke Ivo</b> Interaction of ALD deposited Al<sub>2</sub>O<sub>3</sub> films with remote fluorine plasma. E-MRS Fall Meeting 2017, Warsaw, PL, 09-18 to 09-21 ♦</p>
	<p><b>Schoeppner Rachel</b> Strength and Strain Hardening Behavior of Particle Strengthened Coherent Cu, Ni Multilayer Films. International Conference on Metallurgical Coatings and Thin Films, San Diego, US, 04-24 to 04-28 🍀</p>
	<p><b>Schoeppner Rachel</b> Interfacial adhesion of compositional gradient ternary FCC alloy films. ECI Conference on Nanomechanical Testing, Dubrovnik, HR, 10-01 to 10-06 🍀</p>
	<p><b>Schwierdzik Johann Jakob, Ast Johannes, Maeder Xavier, Pethö Laszlo, Michler Johann</b> A new push-pull sample design for microscale mode I fracture toughness measurements under uniaxial tension. ECI Nanomechanical Testing in Materials Research and Development VI, Dubrovnik, HR, 10-01 to 10-06 ♦</p>
	<p><b>Schwierdzik Johann Jakob, Raghavan Rejin, Rüggeberg Markus, Wehrs Juri, Adusumalli Ramesh, Zimmermann Tanja, Michler Johann</b> Identification of lignin yield stress in the wood cell wall by a combination of micropillar compression, WAXD, wet chemical analysis and micromechanical modeling. ChemWood, Grenoble, FR, 03-23 to 03-24 🍀</p>
	<p><b>Schwierdzik Johann Jakob, Taylor Aidan, Wolfram Uwe, Zysset Philippe, Michler Johann</b> Nanoscale compressive deformation mechanisms and yield properties of hydrated bone extracellular matrix. ECI Nanomechanical Testing in Materials Research and Development VI, Dubrovnik, HR, 10-01 to 10-06 🍀</p>
	<p><b>Schwierdzik Johann Jakob, Wehrs Juri, Deckarm Michael, Birringer Rainer, Michler Johann</b> In situ micromechanical testing inside the scanning electron microscope at subambient temperatures. ECI Nanomechanical Testing in Materials Research and Development VI, Dubrovnik, HR, 10-01 to 10-06 ♦</p>

<b>Mechanics of Materials and Nanostructures</b>	<b>Utke Ivo</b> Atomic layer deposition (ALD) for model materials: multiwall carbon nanotubes (MWCTs) and Graphene. AIST-Empa Workshop, Dübendorf, 05-30 to 06-01 🍄 ○
	<b>Utke Ivo</b> Gas assisted focused electron beam induced deposition with low volatility precursors. Chemistry for EElectron-Induced Nanofabrication – COST Action CM1301 Final International Meeting, Porto, PT, 09-13 to 09-16 🍄 ○
	<b>Utke Ivo</b> Session on "Process gases for deposit purification and lithography", Porto, PT, 09-16 ▲ ○
	<b>Utke Ivo, Pillatsch Lex, Priebe Agnieszka, Östlund Fredrik, Michler Johann</b> FIBSIMS: Secondary Ion Mass Spectrometry integrated on a FIBSEM instrument. FIBiB 2017, Focused Ion Beams Workshop in Berlin, Berlin, DE, 11-06 to 11-07 🍄 ○
	<b>Utke Ivo, Zhang Yucheng, Guerra-Nunez Carlos, Michler Johann, Piyush Agrawal, Rossell Marta D., Erni Rolf</b> Atomic layer deposition of titanium oxide on single layer graphene: an atomic scale study towards understanding nucleation and growth. Joint EuroCVD 21 – Baltic ALD 15 Conference, Linköping, SE, 06-11 to 06-14 🍄
	<b>Wehrs Juri Aljoscha</b> Probing time dependent mechanical properties of electrodeposited nanocrystalline nickel. 18 months StrengthABLE meeting, Brno, CZ, 01-16 to 01-17 🍄
	<b>Wehrs Juri Aljoscha, Schwiedrzik Jakob, Maeder Xavier, Taylor Aidan, Deckarm Michael, Birringer Rainer, Wheeler Jeffrey Martin, Michler Johann</b> Variable temperature micropillar compression transient tests on nanocrystalline Palladium-Gold. In situ-Probing of activation parameters at the lower limit of crystallinity . ICMCTF, San Diego, UM, 04-24 to 04-28 🍄
<b>nanotech@surfaces</b>	<b>Borin Barin Gabriela, Fairbrother Andrew, Llinás Juan Pablo, Feng Xinliang, Müllen Klaus, Ruffieux Pascal, Paillet Matthieu, Bokor Jeffrey, Fasel Roman</b> Bottom-up fabrication of graphene nanoribbons: From molecules to devices. SAOG 2017: 33 <sup>rd</sup> Annual Meeting of the Swiss Working Group for Surface and Interface Science, Fribourg, 01-27 🍄
	<b>Borin Barin Gabriela, Fairbrother Andrew, Llinás Juan Pablo, Feng Xinliang, Müllen Klaus, Ruffieux Pascal, Paillet Matthieu, Bokor Jeffrey, Fasel Roman</b> Bottom-up fabrication of graphene nanoribbons: From molecules to devices. Seminar at the Department of Chemistry, TU Dresden, DE, 05-12 🍄 ○
	<b>Borin Barin Gabriela, Fairbrother Andrew, Llinas Juan Pablo, Paillet Matthieu, Feng Xinliang, Müllen Klaus, Ruffieux Pascal, Bokor Jeffrey, Fasel Roman</b> Ultra-narrow graphene nanoribbons for nanoelectronic devices. Swiss NanoConvention 2017, Fribourg, 06-01 to 06-02 ◆
	<b>Borin Barin Gabriela, Fairbrother Andrew, Llinas Juan Pablo, Paillet Matthieu, Feng Xinliang, Müllen Klaus, Ruffieux Pascal, Bokor Jeffrey, Fasel Roman</b> Bottom-Up Fabrication of Graphene Nanoribbons. From Molecules to Devices . MRS Fall Meeting, Boston, US, 11-26 to 12-01 ◆
	<b>Di Giovannantonio Marco, Deniz Okan, Urgel Jose I., Widmer Roland, Diemel Thomas, Stolz Samuel, Borin Barin Gabriela, Muntwiler Matthias, Dumslaff Tim, Narita Akimitsu, Müllen Klaus, Hayashi Hironobu, Yamada Hiroko, Ruffieux Pascal, Fasel Roman</b> Tracking on-surface chemical reactions via fast-XPS. SAOG2017, Fribourg, 01-27 ◆
	<b>Di Giovannantonio Marco, Deniz Okan, Urgel Jose I., Widmer Roland, Diemel Thomas, Stolz Samuel, Borin Barin Gabriela, Muntwiler Matthias, Dumslaff Tim, Narita Akimitsu, Müllen Klaus, Hayashi Hironobu, Yamada Hiroko, Ruffieux Pascal, Fasel Roman</b> Tracking on-surface chemical reactions via fast-XPS. Gordon Research Conference, Barga, IT, 02-05 to 02-10 ◆
	<b>Di Giovannantonio Marco, Deniz Okan, Urgel Jose I., Widmer Roland, Diemel Thomas, Stolz Samuel, Mishra Shantanu, Muntwiler Matthias, Dumslaff Tim, Narita Akimitsu, Müllen Klaus, Ruffieux Pascal</b> Tracking on-surface chemical reactions by fast-XPS. Mol-CH-Surf 2017, Bern, 06-16 🍄
	<b>Di Giovannantonio Marco, Deniz Okan, Urgel Jose I., Widmer Roland, Diemel Thomas, Stolz Samuel, Mishra Shantanu, Muntwiler Matthias, Dumslaff Tim, Beser Uliana, Narita Akimitsu, Müllen Klaus, Ruffieux Pascal</b> Tracking on-surface chemical reactions for the bottom-up fabrication of graphene nanoribbons and open-shell polymers. Ecos33, Szeged, HU, 08-27 to 09-01 🍄
	<b>Fasel Roman</b> Symposium on Surface Science 2017, St. Moritz, 03-05 to 11-11 ■
	<b>Fasel Roman</b> Bottom-up fabrication of graphene nanoribbons: From molecules to devices. Spring Meeting of the German Physical Society (DPG-17), Dresden, DE, 03-19 to 03-24 🍄 ○
	<b>Fasel Roman</b> On-surface synthesis of graphene nanoribbons: From molecules to high performance switching devices. Physical Chemistry Seminar, Department of Chemistry and Biochemistry, Universi, 05-11 🍄 ○
	<b>Fasel Roman</b> Toward chiral selective synthesis of SWCNTs from bottom-up synthesis. AIST-Empa workshop 2017, Dübendorf, 05-31 to 06-02 🍄 ○

<b>nanotech@surfaces</b>	<b>Fasel Roman</b> On-surface synthesis of graphene nanoribbons: From molecules to devices. Physical Chemistry Seminar, Department of Chemistry, Karl-Franzens-Universität, AT, 06-08 🍄 ○
	<b>Fasel Roman</b> Topological electronic phases in graphene nanoribbons. Joint Annual Meeting of the Swiss , Austrian Physical Society, Geneva, 08-24 🍄 ○
	<b>Fasel Roman</b> On-surface synthesis – Chemistry in 2D. International workshop on the Chemistry of 2D Materials (Chem2Dmat), Dresden, DE, 08-29 🍄 ○
	<b>Fasel Roman</b> Bottom-up fabrication of graphene nanoribbons: From molecules to devices. European Conference on Molecular Electronics (ECME 2017), Dresden, DE, 08-30 to 09-01 🍄 ○
	<b>Fasel Roman</b> Bottom-up fabrication of graphene nanoribbons: From molecules to devices. Graphene Week, Athens, GR, 09-26 🍄 ○
	<b>Gröning Oliver</b> On-surface synthesis and properties characterization of novel low-dimensional materials . Seminar at Donostia International Physics Center (DIPC) , San Sebastian, ES, 01-25 🍄 ○
	<b>Gröning Oliver</b> Chiral surfaces for asymmetric on-surface synthesis. SPM & On-surface chemistry workshop, Prague, CZ, 05-22 to 05-23 🍄
	<b>Gröning Oliver</b> Epitaxial h-BN as functional substrate for single molecule experiments. First AIST-Empa Workshop on Low-Dimensional Materials, Dübendorf, 05-30 to 06-01 🍄 ○
	<b>Gröning Oliver</b> Engineering electronics properties in graphene nanostructures by atomically precise structural control. Nanotech France 2017, Paris, FR, 06-28 to 06-30 🍄 ○
	<b>Gröning Oliver</b> From high thermal insulation plasters to atomically precise engineered electronic materials. NanoInnovation 2017, Rome, IT, 09-26 to 09-29 🍄 ○
	<b>Gröning Oliver, Shiyong Wang, Pascal Ruffieux und Roman Fasel</b> Using edge functionalities in graphene nanoribbons to engineer topological electronic phases. Molecules on Surfaces Discussion Meeting 2017, Berne , 06-16 🍄 ○
	<b>Gröning Oliver, Shiyong Wang, Pascal Ruffieux and Roman Fasel</b> Engineering Topological Electronic States in Graphene Nanostructures. Frontiers in Quantum Materias & Devices Workshop, San Sebastian, ES, 07-13 to 07-14 ◆
	<b>Günzburger Gino, Widmer Roland, Liwei Liu, Gröning Oliver</b> Kelvin Probe Force Microscopy examination of defects of h-BN on Pt(111). 654. WE-Heraeus-Seminar: Topical Insights into Nanoscience using Scanning Probes”, Bad Honnef, DE, 11-19 to 11-23 ◆
	<b>Mishra Shantanu, Pignedoli Carlo A., Ruffieux Pascal, Fasel Roman</b> Bottom-up Fabrication and Sub-molecular Imaging of Atomically-precise Non-hexagonal Ring Topologies in Graphene Nanostructures. WE-Heraeus-Seminar on Topical Insights into Nanoscience using Scanning Probes, Bad Honnef, DE, 11-19 to 11-23 ◆
	<b>Mishra Shantanu, Urgel José I., Giovannantonio Marco di, Ruffieux Pascal, Fasel Roman</b> On-surface Synthesis of Open-shell Polycyclic Aromatic Hydrocarbons. Workshop on Scanning Probe Microscopy and On-surface Chemistry, Prague, CZ, 05-22 to 05-23 🍄
	<b>Mishra Shantanu, Urgel José.I, Hayashi Hironobu, Wilhelm Jan, Pignedoli Carlo A., Giovannantonio Marco di, Yamashita Masataka, Hieda Nao, Ruffieux Pascal, Yamada Hiroko, Fasel Roman</b> On-surface Synthesis of Novel Open-shell Graphene Nanostructures: The Higher Acenes. Joint Annual Meeting of the Swiss and Austrian Physical Societies, Geneva, 08-21 to 08-25 🍄
	<b>Mishra Shantanu, Urgel José I., Wilhelm Jan, Giovannantonio Marco di, Pignedoli Carlo A., Ruffieux Pascal, Fasel Roman</b> On-surface Synthesis and Characterization of Open-shell Graphene Nanostructures. Operating Quantum States in Atoms and Molecules at Surfaces (QMol), Monte Verità, Ascona, 09-10 to 09-14 ◆
	<b>Passerone Daniele, Aliaksandr Yakutovich, Carlo Pignedoli</b> Hidden Beneath the Surface: Origin of the Observed Enantioselective Adsorption on PdGa(111). The XXIXth IUPAP Conference on Computational Physics., Paris, FR, 07-09 to 07-13 🍄
	<b>Passerone Daniele, Pignedoli Carlo</b> Spring meeting of the Swiss Association of Computational Chemistry (SACC) , Empa, Dübendorf, 02-09 ■
	<b>Pignedoli Carlo Antonio</b> Prescreening of the electronic properties of doped 1D carbon based nanostructures via AiiDA workflows. MARVEL site visit , EPFL Lausanne, 04-25 to 09-26 ◆
	<b>Pignedoli Carlo Antonio</b> First principle atomistic simulation of carbon nanomaterials. Joint AIST-Empa workshop on Low-Dimensional Nanomaterials: Synthesis, Characterization and Application, Empa Duebendorf, 05-29 to 05-31 🍄 ○

**Pignedoli Carlo Antonio**

Origin of the Enantioselective Adsorption of prochiral molecules on PdGa(111) surfaces. Joint Annual Meeting of SPS and ÖPG, Geneva, 08-21 to 09-25 🍄

**Pignedoli Carlo Antonio**

Electronic properties of Acenes adsorbed on a gold substrate: comparison between theory and experiment. MARVEL Review meeting, EPFL Lausanne, 09-07 to 09-08 ♦

**Pignedoli Carlo Antonio**

Prescreening of the electronic properties of doped 1D carbon based nanostructures via AiiDA workflows. Marvel review meeting, EPFL Lausanne, 09-07 to 09-08 ♦

**Ruffieux Pascal**

Designed Electronic Properties in Graphene Nanoribbon Heterostructures. Heraeus-Seminar: Topical Insights into Nanostructures using Scanning Probes, Bad Honnef, DE, 11-19 to 11-23 🍄 ○

**Ruffieux Pascal**

Graphene Nanoribbon Heterostructures. HeteroNanoCarb 2017, Benasque, ES, 12-11 to 12-15 🍄 ○

**Schütt Ole, Aliaksandr Yakutovich, Fernando Gargiulo, Snehal Waychal, Carlo Antonio Pignedoli, Giovanni Pizzi, Nicola Marzari, Daniele Passerone**

Toward Interactive High Performance Computing within the Materials Cloud. MARVEL Site Visit, Lausanne, 04-25 to 04-26 ♦

**Schütt Ole, Aliaksandr Yakutovich, Leopold Talirz, Snehal Waychal, Carlo Antonio Pignedoli, Giovanni Pizzi, Nicola Marzari, Daniele Passerone**

Toward Interactive High Performance Computing within the Materials Cloud. MARVEL Review and Retreat, Lausanne, 09-07 ♦

**Scopece Daniele, Beni Alessandra, Cancellieri Claudia, Schmutz Patrik, Juergens Lars, Iannuzzi Marcella, Hutwelker Thomas, Borca Carmelia N., Passerone Daniele**

NEXAFS Simulations of Al K edge in Al-O Bulks with All-electron methods. Modeling and Simulation in Industrial research, Empa, Dubendorf, 02-09 ♦

**Scopece Daniele, Beni Alessandra, Cancellieri Claudia, Rentsch Daniel, Hutwelker Thomas, Borca Carmelia N., Schmutz Patrik, Juergens Lars P., Iannuzzi Marcella, Passerone Daniele**

Experimental and theoretical investigation of the linear fit approach of NEXAFS signals with calibrants spectra applied to anodically-grown amorphous Al<sub>2</sub>O<sub>3</sub> films. Interdisciplinary Surface Science Conference (ISSC-21), Manchester, GB, 04-10 to 04-13 ♦

**Scopece Daniele, Beni Alessandra, Cancellieri Claudia, Schmutz Patrik, Juergens Lars, Iannuzzi Marcella, Hutwelker Thomas, Borca Carmelia N., Passerone Daniele**

NEXAFS simulations of Al K edge in Al-O bulks with all-electron methods. Marvel meeting, Lausanne, 04-25 ♦

**Scopece Daniele, Fischer Maria, Pignedoli Carlo A., Passerone Daniele, Hug Hans J.**

Vacancies in Al-Si, O-N. CCMX and Marvel annual meeting, Empa, Dubendorf, 10-05 ♦

**Stolz Samuel, Gröning Oliver, Brune Harald, Widmer Roland**

Asymmetric coupling reactions on the chiral PdGa{111} surfaces. 3S'17, St. Moritz, 03-05 to 03-11 ♦

**Stolz Samuel, Gröning Oliver, Brune Harald, Widmer Roland**

Click reaction on the chiral PdGa{111} surfaces. ECSCD, San Sebastian, ES, 06-19 to 06-21 ♦

**Stolz Samuel, Gröning Oliver, Brune Harald, Widmer Roland**

Click reaction on the chiral PdGa{111} surfaces. WE-Heraeus-Seminar, Bad Honnef, DE, 11-19 to 11-23 ♦

**Stolz Samuel, Prinz Jan, Yakunovich Aliaksandr, Gröning Oliver, Brune Harald, Widmer Roland**

Asymmetric reaction on a chiral surface. Does it "click"? MOLCH17, Bern, 06-16 🍄 ○

**Urgel Jose Ignacio, Deniz Okan, Hayashi Hironobu, Di Giovannantonio Marco, Yamada Hiroko, Ruffieux Pascal and Fasel Roman**

Novel routes in the formation of large acene derivatives by on-surface thermal conversion. Workshop: Advanced Microscopy and Spectroscopy of Supramolecular and Macromolecular Systems on Surfaces, Hong Kong, CN, 2016-12-12 to 2016-12-15 🍄

**Urgel Jose Ignacio, Mishra Shantanu, Hayashi Hironobu, Di Giovannantonio Marco, Pignedoli Carlo A., Deniz Okan, Ruffieux Pascal, Yamada Hiroko and Fasel Roman**

On-surface photo- and thermal-generation of higher acenes. 33<sup>rd</sup> european conference on surface science, Szeged, HU, 08-28 to 09-01 🍄

**wang shiyong, Kharche Neerav, Costa Girao Eduardo, Feng Xinliang, Müllen Claus, Meunier Vincent, Fasel Roman, Ruffieux Pascal**

Widely Tunable Intraribbon Quantum Dots in Graphene Nanoribbons. SYMPOSIUM ON SURFACE SCIENCE 2017, St Moritz, 03-05 to 03-11 🍄

**wang shiyong, Ruffieux Pascal, Fasel Roman**

Quantum Dots in Graphene Nanoribbons. 16<sup>th</sup> International Conference on the Formation of Semiconductor Interfaces, Hannover, DE, 07-03 to 07-07 🍄

**wang shiyong, Ruffieux Pascal, Fasel Roman**

nc-AFM study of non-trivial graphene nanoribbon topologies. non-contact atomic force microscopy, suzhou, CN, 09-25 to 09-29 🍄

<b>nanotech@surfaces</b>	<p><b>Widmer Roland</b> 3S'17 – 30<sup>TH</sup> SYMPOSIUM ON SURFACE SCIENCE 2017, St. Moritz, 03-05 to 03-11 ■</p>
	<p><b>Widmer Roland, Rogalev Victor, Gröning Oliver, Dil Hugo, Bisti Federico, Lev Leonid, Schmitt Thorsten, Strocov Vladimir</b> Fermi states and anisotropy of Brillouin zone scattering in the decagonal Al-Ni-Co quasicrystal. 3S'17 – 30<sup>TH</sup> SYMPOSIUM ON SURFACE SCIENCE 2017, St. Moritz, 03-05 to 03-11 ◆</p>
	<p><b>Yakutovich Aliaksandr, Hapala Prokop, Jelinek Pavel, Keller Corina, Iannuzzi Marcella, Pignedoli Carlo A., Passerone Daniele</b> Classical and ab initio approaches to functionalized tip AMF simulations: a novel strategy. C4 Workshop, IBM, Rüschlikon, 01-26 ◆</p>
	<p><b>Yakutovich Aliaksandr, Hapala Prokop, Pignedoli Carlo A., Keller Corina, Iannuzzi Marcella, Jelinek Pavel, Passerone Daniele</b> Computational scanning probe microscopy: toward commodity non-contact AFM simulations and AiiDA integration. MARVEL site visit, EPFL, Lausanne, 04-25 to 04-26 ◆</p>
	<p><b>Yakutovich Aliaksandr, Hapala Prokop, Pignedoli Carlo A., Keller Corina, Iannuzzi Marcella, Jelinek Pavel, Passerone Daniele</b> Computational scanning probe microscopy: toward commodity non-contact AFM simulations and AiiDA integration. Marvel review meeting, EPFL, Lausanne, 09-07 to 09-08 ◆</p>
	<p><b>Yakutovich Aliaksandr</b> Enhancement of the accuracy of the ProbeParticle model thorough parameter fitting to DFT-AFM simulations. SPM &amp; On-surface chemistry workshop, Prague, CZ, 05-22 to 05-23 ♣</p>
	<p><b>Yakutovich Aliaksandr</b> ProbeParticle: towards a fast and accurate model for nc-AFM simulations. 20<sup>th</sup> International Conference on Non-Contact Atomic Force Microscopy, Suzhou, CN, 09-25 to 09-29 ♣</p>
<b>Thin Films and Photovoltaics</b>	<p><b>A. Nicolas Filippin, Rawlence Michael, Wäckerlin Aneliia, Romanyuk Yaroslav E., Buecheler Stephan</b> On the interface and role of interlayers between high voltage cathode LMNO and solid state electrolyte LLZO. 2017 MRS Spring Meeting &amp; Exhibit, Phoenix, US, 04-17 to 04-21 ♣</p>
	<p><b>Andres Christian, Stefan G. Haass, Thomas P. Weiss, Romain Carron, Yaroslav E. Romanyuk, Ayodhya N. Tiwari</b> Sodium Doping Strategies for Vacuum Processed Cu<sub>2</sub>ZnSnSe<sub>4</sub> Solar Cells: Decoupling optoelectronic properties from morphological changes. EU PVSEC 2017, Amsterdam, NL, 09-25 to 09-29 ♣</p>
	<p><b>Andres Christian, Stefan G. Haass, Antonio Cabas-Vidani, Yaroslav E. Romanyuk, Ayodhya N. Tiwari</b> Doping in Kesterite: Strategies and Characterization. Pre-Student Meeting for 8<sup>th</sup> Kesterite Workshop, Barcelona, ES, 11-08 to 11-09 ♣ ○</p>
	<p><b>Andres Christian, Stefan G. Haass, Antonio Cabas-Vidani, Yaroslav E. Romanyuk, Ayodhya N. Tiwari</b> Bandgap tuning of Cu<sub>2</sub>Zn(Sn<sub>1-x</sub>Gex)Se<sub>4</sub> absorbers from co-sputtered metal precursors: Morphology and optoelectronic properties. 8<sup>th</sup> European Kesterite Workshop, Barcelona, ES, 11-09 to 11-10 ♣</p>
	<p><b>Avancini Enrico, Debora Keller, Roberto Menozzi, Giovanna Sozzi, Simone di Napoli, Romain Carron, Benjamin Bissig, Fan Fu, Stephan Buecheler, Ayodhya N Tiwari</b> Structural Defects and Lateral Composition Inhomogeneities in Cu(In,Ga)Se<sub>2</sub> Layers Grown by Multistage Co-Evaporation. MRS Material Research Society Conference, Phoenix, AZ, US, 04-17 to 04-21 ♣</p>
	<p><b>Avancini Enrico, Romain Carron, Benjamin Bissig, Patrick Reinhard, Thomas Feurer, Shiro Nishiwaki, Roberto Menozzi, Giovanna Sozzi, Simone Di Napoli, Stephan Buecheler, Ayodhya N. Tiwari</b> Impact of compositional grading and overall Cu deficiency on the near-infrared response in Cu(In, Ga)Se<sub>2</sub> solar cells. EMRS – European Material Research society conference, Lille, FR, 2016-05-02 to 2016-05-06 ♣</p>
	<p><b>Bodnarchuk Maryna, Kovalenko Maksym, Yakunin Sergii</b> Highly luminescent nanocrystals of formamidinium tin iodide (FASnI<sub>3</sub>). SPIE Nanoscience + Engineering, San Diego, California, US, 08-06 to 08-10 ♣ ○</p>
	<p><b>Buecheler Stephan</b> CIGS und Perovskit Solarzellenforschung an der Empa. 15. Nationale Photovoltaik Tagung 2017, Lausanne, 03-23 to 03-24 ♣ ○</p>
	<p><b>Buecheler Stephan</b> Highly efficient photovoltaics: state of technology and research trends. FMTDK SUMMER SCHOOL 2017, Tallinn, EE, 06-29 to 06-30 ♣ ○</p>
	<p><b>Buecheler Stephan</b> Highly efficient CIGS and CIGS-Perovskite tandem solar cells. Seminar at Colorado State University, Fort Collins, US, 10-23 to 10-27 ♣ ○</p>
	<p><b>Buecheler Stephan</b> Insights to high efficiency CIGS thin-film solar cells and tandem devices with Perovskites. 2017 EU-US Frontiers of Engineering Symposium, Davis, US, 11-15 to 11-18 ♣ ○</p>
	<p><b>Buecheler Stephan, Fu Fan, Feurer Thomas, Weiss Thomas P., Pisoni Stefano, Avancini Enrico, Andres Christian, Tiwari Ayodhya N.</b> Halide Perovskite Solar Cells for all-thin-film Tandem Devices. ABXPV 2017, Valencia, ES, 03-01 to 03-02 ♣ ○</p>



<b>Thin Films and Photovoltaics</b>	<b>Cabas Vidani Antonio, Haass Stefan, Andres Christian, Romanyuk Yaroslav, Tiwari Ayodhya</b> On the incorporation of lithium in solution-processed Cu <sub>1-x</sub> LixZnSn(S,Se) <sub>4</sub> absorber. 8 <sup>th</sup> kesterite workshop, Barcelona, ES, 11-08 to 11-10 ◆
	<b>Cabas Vidani Antonio, Haass Stefan, Andres Christian, Romanyuk Yaroslav, Tiwari Ayodhya</b> Investigation on Lithium alloying in Cu <sub>2</sub> ZnSnSe <sub>4</sub> solar cells. PhD symposium, Empa, 11-13 ◆
	<b>Buecheler Stephan, Pisoni Stefano, Fu Fan, Feurer Thomas, Tiwari Ayodhya N.</b> Flexible Perovskite Solar Cells and Mini-Modules for All Thin-Film Tandem Devices. PSCO-2017, Oxford, GB, 09-18 to 09-20 🍀 ○
	<b>Carron Romain, Bissig Benjamin, Avancini Enrico, Feurer Thomas, Weiss Thomas P., Fu Fan, Pisoni Stefano, Nishiwaki Shiro, Buecheler Stephan, Tiwari Ayodhya N.</b> CIGS and Perovskite solar cells activity at Empa. STAM Research Workshop, Strasbourg, FR, 05-25 🍀 ○
	<b>Feurer Thomas, Benjamin Bissig, Fan Fu, Enrico Avancini, Stephan Buecheler, Ayodhya N. Tiwari</b> Low Band Gap Cu(In,Ga)Se <sub>2</sub> Absorber Layers for Perovskite, CIGS Tandem Solar Cells. MRS spring meeting 2017, Phoenix AZ, US, 04-17 to 04-21 ◆
	<b>Feurer Thomas, Weiss Thomas</b> Die Dünnschicht – Zukunft der PV?. Energie-Apéro Aargau, Aarau, 2016-12-01 🍀 ○
	<b>Filippin Alejandro N., Rawlence Michael, Buecheler Stephan</b> All-solid-state thin film Li-ion batteries – recent progress on oxide based electrolytes and high voltage cathode materials. Empa NAREP+ENERGY, Dübendorf, 2016-11-07 🍀
	<b>Filippin Alejandro Nicolas, Rawlence Michael, Zünd Tanja, Kravchyk Kostiantyn, Kovalenko Maksym, Romanyuk Yaroslav E., Buecheler Stephan</b> Highly stable current collector for Li-ion thin film batteries based on a Ni-Al superalloy. Solid-Satte Batteries II – From Fundamentals to Applications, Frankfurt am Main, DE, 2016-11-23 to 2016-11-25 🍀
	<b>Fu Fan, Stefano Pisoni, Thomas Feurer, Aneliia Wäckerlin, Shiro Nishiwaki, Ayodhya N. Tiwari, Stephan Buecheler</b> Efficient and Stable Semi-transparent Planar Perovskite Solar Cells prepared by Partial Ion Exchange for Tandem Applications. E-MRS Spring Meeting, Strassbourg, FR, 05-22 to 05-26 🍀
	<b>Fu Fan, Stefano Pisoni, Thomas Feurer, Aneliia Wäckerlin, Shiro Nishiwaki, Ayodhya N. Tiwari, Stephan Buecheler</b> Efficient and Stable NIR-transparent Perovskite Solar Cells prepared by Partial Ion Exchange for All-thin-film Tandem Applications. EUPVSEC, Amsterdam, NL, 09-25 to 09-29 🍀
	<b>Guntlin Christoph</b> Versatile Chemistry of Iron Trifluoroacetate Complexes Towards Nanocrystalline Cathode Materials. LAC Christmas Symposium, ETH Hönggerberg, 12-13 🍀
	<b>Guntlin Christoph, Tobler Anna, Kovalenko Maksym,</b> Synthesis and Electrochemical Performance of Nanocrystalline Pyrochlore Iron(III) Fluoride as Cathode Material for Lithium-Ion-Battery . PSI Electrochemistry Symposium , Villigen (PSI), 05-09 to 05-10 ◆
	<b>Guntlin Christoph, Tobler Anna, Sougrati Moulay, Kovalenko Maksym,</b> Bottom-Up Synthesis for New Pyrochlor FeF <sub>3</sub> ·H <sub>2</sub> O Phase as Cathode Material. SCCER HaE: 6. Symposium, Martigny, 10-25 ◆
	<b>Guntlin Christoph, Zünd Tanja, Kravchyk Kostiantyn, Wörle Michael, Bodnarchuk Maryna, Kovalenko Maksym,</b> Synthesis of Nanocrystalline Iron Trifluoride from Molecular Precursor and its Li- and Na-ion Storage Properties. Swiss Nano Convention, Fribourg, 06-01 to 06-02 ◆
	<b>Guntlin Christoph, Zünd Tanja, Kravchyk Kostiantyn, Wörle Michael, Bodnarchuk Maryna, Kovalenko Maksym,</b> Synthesis of Nanocrystalline Iron trifluoride from Molecular Precursor and its Li- and Na-ion Storage Properties. MaP Graduate Symposium, Zürich (ETH Zentrum), 06-22 ◆
	<b>Guntlin Christoph, Zünd Tanja, Kravchyk Kostiantyn, Wörle Michael, Bodnarchuk Maryna, Kovalenko Maksym,</b> Synthesis of Nanocrystalline Iron trifluoride from Molecular Precursor and its Li- and Na-ion Storage Properties. SCS Fall Meeting , Bern, 08-21 to 08-22 ◆
	<b>Haass Stefan G., Raquel Caballero, Christian Andres, Yaroslav E. Romanyuk, Ayodhya N. Tiwari</b> Alkali Treatment of Solution-Processed Kesterite Solar Cells. MRS Spring Meeting 2017, Phoenix, US, 04-17 to 04-21 🍀
	<b>Kovalenko Maksym</b> Inorganic, Hybrid Colloidal Nanocrystals: from Synthesis to Devices. Workshop “A Total Scattering School”, Villa del Grumello, IT, 05-29 to 06-01 🍀 ○
	<b>Kovalenko Maksym</b> Colloidal APbX <sub>3</sub> Nanocrystals [A=Cs+, CH <sub>3</sub> NH <sub>3</sub> +, CH(NH <sub>2</sub> ) <sub>2</sub> +] with Bright Photoluminescence Spanning from Ultraviolet to Near-Infrared Spectral Regions. 9 <sup>th</sup> International Conference on Materials for Advanced Technologies (ICMAT 2017), Singapore, SG, 06-18 to 06-23 🍀 ○
	<b>Kovalenko Maksym</b> Colloidal APbX <sub>3</sub> nanocrystals [A=Cs+, CH <sub>3</sub> NH <sub>3</sub> +, CH(NH <sub>2</sub> ) <sub>2</sub> +]:highly defected yet defect-tolerant and bright emitters. XLVI Annual Meeting of the Italian Crystallographic Conference, Perugia, IT, 06-26 to 06-29 🍀 ○



<b>Thin Films and Photovoltaics</b>	<p><b>Kovalenko Maksym</b> Highly luminescent nanocrystals of cesium lead halide perovskites. FIMPART – Frontiers in Materials Processing Applications, Research and Technology, Bordeaux, FR, 07-09 to 07-12 🍄 ○</p>
	<p><b>Kovalenko Maksym</b> Colloidal APbX3 nanocrystals [A=Cs+, CH3NH3+, CH(NH2)2+] with bright photoluminescence spanning from ultraviolet to near-infrared spectral regions. Physical Chemistry of Interfaces and Nanomaterials XV Conference, within the SPIE Optics + Photonics, San Diego, California, US, 08-06 to 08-10 🍄 ○</p>
	<p><b>Kovalenko Maksym</b> Colloidal APbX3 nanocrystals [A=Cs+, CH3NH3+, CH(NH2)2+, X=Cl, Br, I] with bright photoluminescence spanning from ultraviolet to near-infrared spectral regions. FQDots-2017 “Fundamental Processes in Semiconductor Nanocrystals”, Barcelona, ES, 09-07 to 09-08 🍄 ○</p>
	<p><b>Kovalenko Maksym</b> Colloidal nanocrystals of APbX3 [A=Cs+, CH3NH3+, CH(NH2)2+, X=Cl-, Br-, I-] perovskites with bright photoluminescence spanning the entire visible spectral range. PSCO-17 (Perovskite Solar Cells and Optoelectronics), Oxford, GB, 09-18 to 09-20 🍄 ○</p>
	<p><b>Kovalenko Maksym</b> Nano- and Large Single Crystals of Lead Halide Perovskites: from Bright Light Emission to Gamma Detection. GÖChemistry Days, Salzburg, AT, 09-25 to 09-27 🍄 ○</p>
	<p><b>Kovalenko Maksym</b> Inorganic Perovskite Quantum dots. IEEE Photonics Conference, Orlando, Florida, US, 10-01 to 10-05 🍄 ○</p>
	<p><b>Kovalenko Maksym</b> Colloidal nanocrystals of APbX3 [A=Cs+, CH3NH3+, CH(NH2)2+, X=Cl-, Br-, I-] perovskites with bright photoluminescence spanning the entire visible spectral range. Workshop on Perovskite Nanocrystals, ESPCI, Paris, FR, 12-05 🍄 ○</p>
	<p><b>Kravchyk Kostiantyn, Bodnarchuk Maryna, Kovalenko Maksym</b> Novel nanoscale electrode materials for sodium-ion batteries. PSI Electrochemistry Symposium, Villigen, 05-09 to 05-10 🍄</p>
	<p><b>Kravchyk Kostiantyn, Bodnarchuk Maryna, Kovalenko Maksym</b> Nanostructured Cathode and Anode Materials for Mg-Ion Batteries. MRS Fall Meeting, Boston, US, 11-26 to 12-01 🍄</p>
	<p><b>Kravchyk Kostiantyn, Wang Shutao, Kovalenko Maksym</b> Non-aqueous aluminium batteries: progress and challenges. International Conference on Solid State Ionics, Padova, IT, 06-18 to 06-23 🍄 ○</p>
	<p><b>Kravchyk Kostiantyn, Wang Shutao, Piveteau Laura, Krumeich Frank, Kovalenko Maksym</b> Aluminum Chloride–Natural Graphite Battery and Its Energy Density. MRS Fall Meeting, Boston, US, 11-26 to 12-01 🍄</p>
	<p><b>Lingg Martina, Spescha Annina, Perrenoud Julian, Buecheler Stephan, Tiwari Ayodhya N.</b> On the electronic properties of CdTe1-xSex absorber layers with substitutional doping on Cd or Te site. EU PVSEC 2017 – 33<sup>rd</sup> European PV Solar Energy Conference and Exhibition, Amsterdam, NL, 09-27 to 09-29 🍄</p>
	<p><b>Löckinger Johannes, Nishiwaki Shiro, Weiss Thomas, Bissig Benjamin, Romanyuk Yaroslav, Buecheler Stephan, Tiwari Ayodhya</b> TiO2 as intermediate buffer layer in Cu(In,Ga)Se2 solar cells. Joint EuroCVD-BalticALD, Linköping, SE, 06-11 to 06-14 🍄</p>
	<p><b>Pisoni Stefano, Fu Fan, Feurer Thomas, Bissig Benjamin, Mohammed Makha, Nishiwaki Shiro, Buecheler Stephan, Tiwari Ayodhya</b> Flexible Perovskite, Cu(In,Ga)Se2 Tandem Thin Film Solar Cell. EUPVSEC 2016, Munich, DE, 2016-06-21 to 2016-06-24 🍄</p>
	<p><b>Pisoni Stefano, Fu Fan, Feurer Thomas, Bissig Benjamin, Nishiwaki Shiro, Tiwari Ayodhya, Buecheler Stephan</b> NIR-Transparent Perovskite Solar Cell for Flexible All-Thin-Film Tandem Devices. MRS 2017 Spring Meeting, Phoenix, Arizona, US, 04-17 to 04-21 🍄</p>
	<p><b>Pisoni Stefano, Fu Fan, Feurer Thomas, Bissig Benjamin, Tiwari Ayodhya, Buecheler Stephan</b> All Laser-Scribed Flexible Perovskite Mini-Modules for Thin Film Tandem Applications. HOPV 2017, Lausanne, 05-21 to 05-24 🍄</p>
	<p><b>Pisoni Stefano, Fu Fan, Feurer Thomas, Mohammed Makha, Bissig Benjamin, Nishiwaki Shiro, Buecheler Stephan, Tiwari Ayodhya</b> NIR-transparent perovskite solar cell for flexible all thin film tandem devices. PSCO-2016, Genoa, IT, 2016-09-26 to 2016-09-28 🍄</p>
	<p><b>Pisoni Stefano, Fu Fan, Sastre-Pellicer Jordi, Feurer Thomas, Bissig Benjamin, Nishiwaki Shiro, Tiwari Ayodhya, Buecheler Stephan</b> Flexible Perovskite Solar Cells: From NIR-Transparent Devices to Mini-Modules. EUPVSEC 2017, Amsterdam, NL, 09-25 to 09-29 🍄</p>
	<p><b>Pisoni Stefano, Ziltener Roger, Fu Fan, Bissig Benjamin, Feurer Thomas, Zortea Lucas, Filippin Alejandro, Tiwari Ayodhya, Buecheler Stephan</b> All Laser Scribed Flexible Perovskite Mini-Modules. MRS 2017 Spring Meeting, Phoenix, Arizona, US, 04-17 to 04-21 🍄</p>

<b>Thin Films and Photovoltaics</b>	<b>Rawlence Michael, Filippin Alejandro Nicolas, Remhof Arndt, Rupp Jennifer, Buecheler Stephan</b> The Effect of Lithium and Gallium Concentration on Phase Evolution in Lithium Ion Conducting Garnet Li <sub>7-3x</sub> La <sub>3</sub> Zr <sub>2</sub> GaxO <sub>12</sub> Thin Films. Bunsen Colloquium, Frankfurt, DE, 2016-11-26 to 2016-11-30 ◆
	<b>Rawlence Michael, Garbayo Inigo, Rupp Jennifer, Buecheler Stephan</b> Solid State Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Thin Film Electrolyte by Pulsed Laser Deposition: Deposition, Crystallization, and Near Order Characteristics vs. Lithiation. 7 <sup>th</sup> Lithium Battery Discussions, Arcachon, FR, 2015-06-21 to 2015-06-26 ◆
	<b>Rawlence Michael, Kubicek Markus, Rupp Jennifer, Buecheler Stephan</b> Effect of Al Substitution on the Performance of Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Ceramic Electrolyte. EMRS, Lille, FR, 2014-05-26 to 2014-05-30 ◆
	<b>Rawlence Michael, Struzik Michal, Rupp Jennifer, Buecheler Stephan</b> Physical and Electronic characterization of Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Thin Films vs Bulk. Bunsen Colloquium, Frankfurt, DE, 2014-11-26 to 2014-11-28 ◆
	<b>Romanyuk Yaroslav</b> Project FOXIP: Functional OXIdes Printed on Polymers and Paper. Swiss e-Print 2017, Basel, 09-26 to 09-27 ◆
	<b>Romanyuk Yaroslav</b> Session "Device structure". 8 <sup>th</sup> European kesterite workshop, Barcelona, ES, 11-08 to 11-10 ▲
	<b>Romanyuk Yaroslav, Löckinger Johannes, Jäger Timo, Greuter Lukas, Buecheler Stephan, Tiwari Ayodhya,</b> Alternative buffer and front contact layers for thin film chalcogenide cells. 2017 MRS Spring Meeting, Phoenix, US, 04-17 to 04-21 🍀 ○
	<b>Romanyuk Yaroslav, Wäckerlin Aneliia, Ye Zixing, Guo Huizhang, Schneider René, de Hazan Yoram, Feurer Thomas, Romain Carron, Nishiwaki Shiro, Greuter Lukas, Tiwari Ayodhya</b> Current collectors for flexible CIGS solar cells: Cu nanowires and Ag printed grids. E-MRS Spring meeting 2017, Strasbourg, FR, 05-22 to 05-26 🍀
	<b>Tiwari Ayodhya N.</b> Advances in innovative thin film solar cells for high efficiency and low cost solar electricity systems. 104 Indian Science Congress, Tirupati, IN, 01-03 to 01-07 🍀 ○
	<b>Tiwari Ayodhya N.</b> Studies for advance understandings and efficiency improvements. 8 <sup>th</sup> International Workshop on CIGS Solar Cell Technology (IW-CIGSTech 8), Stuttgart, DE, 03-30 🍀 ○
	<b>Tiwari Ayodhya N.</b> Recent efficiency breakthroughs in Cu(In,Ga)Se <sub>2</sub> solar cells. Symposium on 10 years of Laboratory for Photovoltaics and Semiconductor Physics at Luxembourg University, Luxembourg, LU, 05-05 🍀 ○
	<b>Tiwari Ayodhya N.</b> Solar electricity: advancements and opportunities with innovative emerging technologies. 2017 OSU Materials Week Conference, Columbus, Ohio, US, 05-09 to 05-12 🍀 ○
	<b>Tiwari Ayodhya N.</b> Thin film tandem solar cells. Nanotechnology and Next Generation High Efficiency Photovoltaics International School and Workshop, Palma, Mallorca, ES, 09-12 to 09-15 🍀 ○
	<b>Tiwari Ayodhya N.</b> Thin film tandem solar cells. Nanotechnology and Next Generation High Efficiency Photovoltaics International School and Workshop, Palma, Mallorca, ES, 09-12 to 09-15 🍀 ○
	<b>Tiwari Ayodhya N.</b> Developments in alkali treated CIGS solar cells: Flexible and tandem devices with Perovskite. International Photovoltaic Science and Engineering Conference (27-PVSEC), Otsu, Shiga, JP, 11-12 to 11-17 🍀 ○
	<b>Tiwari Ayodhya N.</b> Studies on alkali treated CIGS layers and solar cells. International workshop on high efficiency CIGS solar cells, Otsu, JP, 11-18 🍀 ○
	<b>Tiwari Ayodhya N.</b> Effects of alkali elements on the solution-processed kesterite solar cells. MRS Fall Meeting, Boston, US, 11-26 to 12-01 🍀 ○
	<b>Wäckerlin Aneliia, Külah Elcin, Amberg Martin, Niessen Thomas, Rupper Peiter, Hegemann Dirk, Romanyuk Yaroslav, Tiwari Ayodhya</b> Easy-to-clean coating based on vapour-deposited trialkoxyfluorosilane. Annual Meeting of the Swiss Society for Biomaterials and Regenerative Medicine, St. Gallen, 05-17 ◆
	<b>Weiss Thomas</b> Device characterization and modeling. 2017 MRS Spring Meeting & Exhibit, Phoenix, Arizona, US, 04-17 to 04-21 🍀 ○
	<b>Weiss Thomas, Buecheler, Stephan</b> Electrical characterization of thin film solar cells and absorbers. CHEETAH webinar, Duebendorf, 05-10 🍀
	<b>Weiss Thomas, Nishiwaki Shiro, Buecheler Stephan, Avancini Enrico, Bissig Benjamin, Tiwari Ayodhya N.</b> Voltage dependent admittance spectroscopy – detection of near interface defect states. 2017 MRS Spring Meeting & Exhibit, Phoenix, Arizona, US, 04-17 to 04-21 🍀

	<p><b>Engineering Sciences</b></p> <p><b>Meier Urs</b> Robert Maillart und die Empa. Anlass der em. Prof. der ETHZ, Winterthur, 05-29 🍷</p> <p><b>Meier Urs</b> Die Salginatobelbrücke. VKB-Anlass, Schiers, 06-07 🍷</p> <p><b>Meier Urs</b> Carbon Fiber Reinforced Polymer Tendons: Quo Vadis?. 6<sup>th</sup> Asia-Pacific Conference on FRP in Structures (APFIS2017), Singapore, MY, 07-19 🍷 ○</p> <p><b>Meier Urs</b> Die Salginatobelbrücke. VKB-Anlass, Schiers, 08-22 🍷</p> <p><b>Meier Urs</b> Die Salginatobelbrücke. VKB-Anlass, Schiers, 08-31 🍷</p>
<b>Mechanical Integrity of Energy Systems</b>	<p><b>Domaschke Sebastian, Zündel Manuel, Mazza Edoardo, Ehret Alexander</b> From Discrete 3D to 2D and Analytic Models of Electrospun Fibre Mats. Annual Meeting of GAMM , Weimar, DE, 03-06 to 03-10 🍷</p> <p><b>Ehret Alexander, Bircher Kevin, Marina Vita, Stracuzzi Alberto, Zündel Manuel, Domaschke Sebastian, Mazza Edoardo</b> Continuum and discrete approaches to the mechanics of fibrous membranes. Aachener Mechanik &amp; Statik Kolloquium, RWTH Aachen University, DE, 07-07 🍷 ○</p> <p><b>Ehret Alexander, Bircher Kevin, Stracuzzi Alberto, Zündel Manuel, Marina Vita, Mazza Edoardo</b> Advanced experimental methods in tissue biomechanics. Euromech-Colloquium 585 , Burg Warberg, DE, 02-12 to 02-16 ▲ ○</p> <p><b>Ehret Alexander, Bircher Kevin, Stracuzzi Alberto, Zündel Manuel, Marina Vita, Mazza Edoardo</b> On the role of water mobility for soft tissue bio-mechanics and mechanobiology. Workshop: Maths from the body, Brescia, IT, 05-28 to 05-31 🍷 ○</p> <p><b>Ehret Alexander, Bircher Kevin, Stracuzzi Alberto, Zündel Manuel, Marina Vita, Mazza Edoardo</b> Water mobility makes soft tissue membranes compliant and tough. Euromech-Colloquium 585 , Burg Warberg, DE, 02-12 to 02-16 🍷</p> <p><b>Ehret Alexander, Bircher Kevin, Zündel Manuel, Stracuzzi Alberto, Marina Vita, Domaschke Sebastian, Mazza Edoardo</b> Thin, flexible and tough: mechanical aspects of fi-brous membranes. Seminar: University of Southampton, Southampton, GB, 05-03 🍷 ○</p> <p><b>Ehret Alexander, Stracuzzi Alberto, Bircher Kevin, Mazza Edoardo</b> Effective compressibility and chemo-mechanics of soft tissue membranes. Annual Meeting of GAMM , Weimar, DE, 03-06 to 03-10 🍷</p> <p><b>Holdsworth Stuart</b> Creep and oxidation interactions with fatigue crack growth thresholds. HIDA – 7 Conference, Portsmouth, GB, 05-15 to 05-17 🍷 ○</p> <p><b>Holdsworth Stuart</b> Verification of the effectiveness of Miner’s rule at elevated temperatures. International Conference on Low Cycle Fatigue, Radebeul, DE, 06-27 to 05-29 🍷</p> <p><b>Holdsworth Stuart</b> Long term SCC properties in steam for inspection management and design. EDF Enviromentally Assisted Cracking Technical forum, Cannington Court, GB, 09-07 to 09-08 🍷</p>
<b>Mechanical Systems Engineering</b>	<p><b>Aiyangar Ameet K., Byrne Ryan M., Zhou Yu, Zheng Liying, Chowdhury Suman K., Zhang Xudong,</b> Segmental Variations in Facet Joint Translations During In Vivo Lumbar Extension. 2<sup>nd</sup> International Workshop on Spine Loading and Deformation, Berlin, DE, 05-18 to 05-20 🍷</p> <p><b>Alderliesten René, Brunner Andreas J., Pascoe John-Alan</b> Cyclic fatigue fracture of composites: What has testing revealed about the physics of the processes so far. 8<sup>th</sup> ESIS TC4 Conference on Fracture of Polymers, Composites and Adhesives, Les Diablerets, 09-10 to 09-14 🍷</p> <p><b>Baensch Franziska, Zauner Michaela, Brunner Andreas J., Niemz Peter</b> Schadensentwicklung in Holz und Lagenholzwerkstoffen untersucht mittels Schallemissionsanalyse. Angewandte Forschung im Bauwesen — Anwenderkonferenz, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, DE, 09-22 🍷 ○</p> <p><b>Baschnagel Fabio, Terrasi Giovanni P., Gao Jing, Widmann Robert, Meier Urs</b> Fatigue and durability of laminated carbon fibre reinforced polymer straps for bridge suspenders. Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR) 2017, Zurich, 09-13 to 09-15 🍷</p> <p><b>Brunner Andreas J.</b> Quantitative Charakterisierung mikroskopischer Schädigungsmechanismen in Faserverbund- und Holzwerkstoffen. 21. Kolloquium Schallemission, Fulda, DE, 03-03 to 03-09 🍷</p> <p><b>Brunner Andreas J., Hojo Masaki</b> Selected Aspects of Fatigue Fracture Testing of Polymer Composites. 14<sup>th</sup> International Conference on Fracture (IFC 14), Rhodes, GR, 06-18 to 06-23 🍷</p>

<b>Mechanical Systems Engineering</b>	<b>Brunner Andreas J., Kaufmann Rolf</b> X-ray imaging of intrinsic and fracture induced defects in CFRP epoxy composites. 8 <sup>th</sup> ESIS TC4 Conference on Fracture of Polymers, Composites and Adhesives, Les Diablerets, 09-10 to 09-14 🍄
	<b>Chowdhury Suman K., Byrne Ryan M., Zhou Yu, Aiyangar Ameet, Zhang Xudong</b> Lumbar facet joint kinematics and load effects during dynamic lifting. Human Factors and Ergonomics Society 2017 Annual Meeting, Austin, US, 10-09 to 10-13 🍄
	<b>Kinloch Anthony, Jones Rhys, Bunner Andreas J., Michopoulos John G.</b> Is the FAA Slow Growth Approach to Certification of Composite and Bonded Structures Feasible?. 14 <sup>th</sup> International Conference on Fracture (IFC 14), Rhodes, GR, 06-18 to 06-23 🍄
	<b>Kovacs Gabor</b> From research to production. SPIE Smart Structures NDE Conference, Portland, US, 03-25 to 03-29 🍄 ○
	<b>Senteler Marco, Aiyangar Ameet K., Weisse Bernhard, Farshad Mazda, Snedeker Jess G.,</b> Sensitivity of Intervertebral Joint Forces to Center of Rotation Location and Trends along its Migration Path. 2 <sup>nd</sup> International Workshop on Spine Loading and Deformation, Berlin, DE, 05-18 to 05-20 🍄
<b>Multiscale Studies in Building Physics</b>	<b>Allegrini Jonas, Carmeliet Jan</b> Coupled CFD, radiation and building energy model for studying the impact of building height topology and buoyancy on local heat island formation in urban environments. AMS 2017, Seattle, US, 01-23 to 01-26 🍄
	<b>Allegrini Jonas, Derome Dominique, Carmeliet Jan</b> Wind tunnel measurements of local heat transfer coefficients and local air temperatures in an urban street canyon using IR thermography. IATA, Quebec, CA, 09-27 to 09-29 🍄
	<b>Allegrini Jonas, Glabeke Gertjan, Alessi Giacomo, Christophe Julien, van Beeck Jeroen, Maesschalck Jan</b> Combined aerodynamic force and flow field measurements for a tall transmission tower. PHYSMOD 2017, Nantes, FR, 08-23 to 08-25 🍄
	<b>Chen Mingyang, Benoit Coasne, Robert Guyer, Dominique Derome, Jan Carmeliet</b> Coupling behavior between adsorption and deformation of nanoporous materials: a multiscale study. 9 <sup>th</sup> International Conference on Porous Media & Annual Meeting, Rotterdam, NL, 05-08 to 05-11 ◆
	<b>Chen Mingyang, Benoit Coasne, Robert Guyer, Dominique Derome, Jan Carmeliet</b> Analysis of sorption and mechanical hysteresis of nano-porous materials: Upscaling molecular simulations by dependent domain theory. 6 <sup>th</sup> Biot Conferences on Poromechanics, Paris, FR, 07-09 to 07-13 🍄
	<b>Defraeye Thijs</b> Fluid transport in porous asphalt perspectives for urban heat island mitigation. Lal S., Kubilay A., Poulikakos L., Partl M., Derome D., Carmeliet J., Dübendorf, 06-12 🍄 ○
	<b>Defraeye Thijs, Martynenko Alex</b> Electro-aerodynamic drying of apple fruit insights from conjugate airflow-hygrothermal modelling. EuroDrying – Liège 2017, Liege, BE, 06-19 to 06-21 🍄
	<b>Defraeye Thijs, Martynenko Alex</b> ELECTRO-AERODYNAMIC DRYING OF APPLE FRUIT: INSIGHTS FROM CONJUGATE AIRFLOW-HYGROTHERMAL MODELLING. EuroDrying'2017 – 6 <sup>th</sup> European Drying Conference, Liège, Belgium, 19-21 June 2017, Liege, BE, 06-19 to 06-21 🍄
	<b>Derome Dominique</b> Recent work at Laboratory for Multiscale Studies in Building Physics. Workshop, Magdeburg, DE, 11-09 to 11-10 🍄 ○
	<b>Derome Dominique, Carl Stephan, Vontobel Peter, Carmeliet Jan</b> Train of water droplets impacting porous stones: adsorption and film forming. Droplet, Los Angeles, US, 07-24 to 07-26 🍄
	<b>Derome Dominique, Carmeliet Jan</b> porous biological hierarchical composites inspired from wood, from atomistic to continuum modeling of swelling. Material Research Society, Boston, US, 11-26 to 12-01 🍄
	<b>Derome Dominique, Carmeliet Jan, Zhang Chi, Chen Mingyang, Kulasinski Karol</b> Using MD simulations for the poromechanical formulation of a hygromechanical behavior of a nanoporous biological cellular composite. VII International Conference on Coupled Problems in Science and Engineering, Rhodes, GR, 06-12 to 06-14 🍄
	<b>Derome Dominique, Hendrickx Roel, Carl Stephan, Desmarais Guylaine, Mannes David, Kaestner Anders, Ferreira Ester S.B.</b> Moisture transport and sorption in oil-painted linen canvas documented by X-ray and neutron imaging. Technart, Bilbao, ES, 05-02 to 05-06 🍄
<b>Derome Dominique, Kubilay Aytac, Carmeliet Jan</b> Couplage des phénomènes physique dans le microclimat urbain. 8 <sup>ième</sup> colloque interuniversitaire Franco-québécois sur la thermique des systemes, Saint-Lô, FR, 05-22 to 05-24 🍄	
<b>Derome Dominique, Kubilay Aytac, Carmeliet Jan</b> Wind-driven Rain Impact on Urban Microclimate: Wetting and Drying. Building Simulation 15 <sup>th</sup> IBPSA Conference, San Francisco, CA, US, 08-07 to 08-09 🍄	
<b>Derome Dominique, Kulasinski Karol, Zhang Chi, Chen Mingyang, Carmeliet Jan</b> Absorption dans le bois: comprendre à toutes les échelles. Association française de l'adsorption (AFA), Paris, FR, 01-30 to 01-31 🍄 ○	

<b>Multiscale Studies in Building Physics</b>	<b>Derome Dominique, Parada Marcelo, Rossi René, Carmeliet Jan</b> Wicking in yarn with fast synchrotron X-ray tomography. 3 <sup>rd</sup> International Conference on tomography of Materials and Structures, Lund, SE, 06-26 to 06-30 🍄
	<b>Derome Dominique, Zhang Chi, Chen Mingyang, Carmeliet Jan</b> Adsorption in wood: capturing all the effects by MD. ChemWood, Grenoble, FR, 03-23 to 03-24 🍄
	<b>Derome Dominique, Zhang Chi, Chen Mingyang, Kulasinski Karol, Keten Sinan, Carmeliet Jan</b> Hygromechanical behavior of biopolymeric nano-composite material: From MD to poromechanics. 9 <sup>th</sup> International Conference on Porous Media & Annual Meeting (Interpore), Rotterdam, NL, 05-08 to 05-11 🍄
	<b>Derome Dominique, Zhang Chi, Chen Mingyang, Kulasinski Karol, Keten Sinan, Carmeliet Jan</b> Understanding hygro-mechanically-coupled behavior using atomistic simulations of biopolymeric nano-composite material. 6 <sup>th</sup> Biot conference on poromechanics, Paris, FR, 07-09 to 07-13 🍄
	<b>Derome Dominique, Zhang Chi, Keten Sinan, Carmeliet Jan</b> Capturing the full hygromechanical behavior of a biopolymeric nano-composite, namely wood, by MD and poromechanics. Engineering Mechanics Institut, San Diego, US, 06-04 to 06-07 🍄
	<b>Desmarais Guylaine, Carl Stephan, Defraeye Thijs, Mannes David, Carmeliet Jan, Derome Dominique</b> Sorption in porous media spatially documented with simultaneous measurements of moisture content and temperature variations. 9 <sup>th</sup> International Conference on Porous Media, Rotterdam, NL, 05-08 to 05-11 🍄
	<b>Desmarais Guylaine, Carl Stephan, Thijs Defraeye, Mannes David, Carmeliet Jan, Derome Dominique</b> Sorption de vapeur en milieu poreux: mesures simultanées de teneur en humidité et température. 8 <sup>ième</sup> colloque interuniversitaire Franco-québécois sur la thermique des systèmes, Saint-Lô, FR, 05-22 to 05-24 🍄
	<b>Ghazi Wakili Karim, Stahl Thomas, Vonbank Roger, Brunner Samuel</b> Dry and wet application of VIP layerws as internal insulation to brick walls. Measurement and Simulation. 13 <sup>th</sup> International Vacuum Insulation Symposium 2017, Paris, FR, 09-20 to 09-21 🍄
	<b>Kubilay Aytac</b> Influence of thermal and moisture storage in building materials on urban microclimate. LESO Lunchtime Lectures, Lausanne, EPFL, 03-10 🍄 ○
	<b>Kubilay Aytac, Derome Dominique, Carmeliet Jan</b> Influence of thermal and moisture capacities of building materials on urban microclimate by multi-transport modeling. 13 <sup>th</sup> Symposium of the Urban Environment, AMS 97 <sup>th</sup> Annual Meeting, Seattle, WA, US, 01-22 to 01-26 🍄
	<b>Kubilay Aytac, Derome Dominique, Carmeliet Jan</b> Parametric study of urban microclimate based on a coupled approach for CFD, radiation, wind-driven rain and heat and moisture transport in building materials. Building Simulation 15 <sup>th</sup> IBPSA Conference, San Francisco, CA, US, 08-07 to 08-09 🍄
	<b>Manickathan Lento, Defraeye Thijs, Allegrini Jonas, Derome Dominique, Carmeliet Jan</b> Conjugate vegetation model for evaluating evapotranspirative cooling in urban environment. 13 <sup>th</sup> symposium of the urban environment in conjunction with The American Meteorological Society's 97 <sup>th</sup> Annual Meeting, Seattle, US, 01-22 to 01-26 🍄
	<b>Prawiranto Kevin, Defraeye Thijs, Derome Dominique, Carmeliet Jan</b> The impact of solar drying on the fruit drying behaviour. Innovations in Food Science and Technology Conference, Munich, DE, 05-10 to 05-12 🍄
	<b>Prawiranto Kevin, Defraeye Thijs, Derome Dominique, Carmeliet Jan</b> Towards a better prediction of fruit dehydration: a multiscale hygro-mechanical model. VII International Conference on Coupled Problems in Science and Engineering, Rhodes, GR, 06-12 to 06-14 🍄
	<b>Qin Feifei, Luca Del Caro, Qinjun Kang, Dominique Derome, Jan Carmeliet</b> Simulation of liquid evaporation in cavity with spirally arranged pillars using thermal multiphase lattice Boltzmann method. 26 <sup>th</sup> International Conference on Discrete Simulation of Fluid Dynamics, Erlangen, DE, 07-10 to 07-14 🍄
	<b>Waibel Christoph, Bystricky Lukas, Kubilay Aytac, Evins Ralph, Carmeliet Jan</b> Validation of Grasshopper-based Fast Fluid Dynamics for Air Flow around Buildings in Early Design Stage. Building Simulation 15 <sup>th</sup> IBPSA Conference, San Francisco, CA, US, 08-07 to 08-09 🍄
	<b>Zhang Chi, Dominique Derome, Jan Carmeliet</b> Multiscale Modeling of Hygromechanical Behavior of Wood Cell Wall S2 Layer. CompWood 2017, TU wien, AT, 06-07 to 06-09 🍄
	<b>Zhang Chi, Dominique Derome, Jan Carmeliet</b> Coupled Hygro-Thermo-Mechanical Behavior of Amorphous Biopolymers: Molecular Dynamic Study of Softwood Lignin. 6 <sup>th</sup> Biot conference on poromechanics, Ecole des Ponts ParisTech, FR, 07-09 to 07-13 🍄
	<b>Zhou Xiaohai, Derome Dominique, Carmeliet Jan</b> Hygrothermal simulation and evaluation of frost risk of masonry walls subjected to inside insulation retrofitting. 14 <sup>th</sup> International Conference on Durability of Building Materials and Components, Ghent, BE, 05-29 to 05-31 🍄
	<b>Zhou Xiaohai, Dorome Dominique, Carmeliet Jan</b> Numerical analysis of freezing process in porous medium. 6 <sup>th</sup> Biot Conference on Poromechanics, Paris, FR, 07-09 to 07-13 ◆



<b>Road Engineering/ Sealing Components</b>	<b>Hugener Martin</b> Rejuvenators in hot recycling – State of the art and new challenges. AAPT, ISAP International Forum at the annual meeting of the Association of Asphalt Paving Technologists (AAPT), Newport Beach CA , US, 03-19 to 05-22 🍄 ○
	<b>Hugener Martin</b> PLANET – EP 7: Arbeitshygiene . ASTRA Tagung Niedertemperaturasphalt, Olten, 05-02 🍄 ○
	<b>Hugener Martin</b> Simulating repeated recycling of hot mix asphalt. 7 <sup>th</sup> International EATA Conference (European Asphalt Technology Association), Duebendorf, 06-12 to 06-14 🍄 ○
	<b>Partl Manfred</b> Fundamental Asphalt Pavement Research. Guangzhou Construction Association Seminary, Guangzhou , CN, 05-17 🍄 ○
	<b>Partl Manfred</b> Progress in Asphalt Pavement Research. Guangdong Highway Association Seminary, Guangzhou, CN, 05-18 🍄 ○
	<b>Partl Manfred</b> Durability Aspects of Asphalt Pavements. South East University Seminary, Nanjing, CN, 05-19 🍄 ○
	<b>Partl Manfred</b> Cracking & Debonding Performance of Asphalt Pavements. Jiaotong University Seminar, Chongqing, CN, 05-22 🍄 ○
	<b>Partl Manfred</b> Cracking & Debonding Performance of Asphalt Pavements. Seminary of Hong Kong Technical University, Hong Kong, HK, 05-23 🍄 ○
	<b>Partl Manfred, Arraigada Martin, Piemontese Fabio</b> Swiss MLS10: in-situ validation of recycled hot asphalt mixtures. TRB AFD40 , Washington, US, 01-10 🍄
	<b>Partl Manfred, Hailesilassie Biruk, Hugener Martin</b> Advances in Understanding Foam Asphalt Concrete . TRC, Beijing, CN, 05-23 to 05-25 🍄 ○
	<b>Raab Christiane</b> Gebrauchsdauer und Alterung. imp Tagung Niedertemperaturasphalt, Olten, 05-02 🍄 ○
	<b>Raab Christiane, Abd El Halim Omar Abd El Halim, Frank Pinder, Imran Bashir, Hasan Tayyeb</b> Improving the Quality of Bridge Asphalt Lanes with the Use of Asphalt Multi-Integrated Roller. EATA Conference, Zürich, 06-13 🍄 ○
	<b>Raab Christiane, Manfred Partl, Elise Fourquet and A.O. Abd El Halim</b> Assessment of Interlayer Bonding Properties with static and dynamic Devices. Geomeast 2017, Internation Congress and Exhibition, Sharm El-Sheikh, EG, 07-15 to 07-19 🍄 ○
	<b>Raab Christiane, Manfred Partl, Elise Fourquet and A.O. Abd El Halim</b> Static and Cyclic Evaluation of Interlayer Bonding. BCRRRA 2017 10 <sup>th</sup> International Conference on the Bearing Capacity of Roads, Railways and Airfields, 28 <sup>th</sup> to 30 <sup>th</sup> June 2017, Athens, Greece, Athens, GR, 06-28 to 06-30 🍄 ○
	<b>Raab Christiane, Moises Bueno, Etienne Jeffroy, Manfred N. Partl</b> New challenges on asphalt pavements: Healing. ISAP Day at Transportation Research Board meeting, Washington D.C., US, 01-08 🍄 ○
<b>Raab Christiane, Moises Bueno, Etienne Jeffroy, Manfred N. Partl</b> New challenges on asphalt pavements: Healing. TRB, ISAP Day, Washington D.C., US, 01-08 🍄 ○	
<b>Raab Christiane, Taher M. Ahmed, Peter Green, Hussain A. Khali</b> Predicting Fatigue Performance of Hot Mix Asphalt Using Artificial Neural Networks. EATA Conference, Zürich, 06-13 🍄 ○	
<b>Structural Engineering</b>	<b>Czaderski Christoph, Meier Urs</b> Long term behavior of epoxy adhesives and FRP's for strengthening of concrete. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄 ○
	<b>Dauti Dorjan, Weber Benedikt, Dal Pont Stefano, Tengattini Alessandro, Toropovs Nikolajs, Briffaut Matthieu</b> First results on fast neutron tomography of heated concrete. 5 <sup>th</sup> International Workshop on Concrete Spalling due to Fire Exposure, Boras, SE, 10-12 to 10-13 🍄
	<b>Feltrin Glauco, Popovic Nemanja, Jalsan Khash-Erdene</b> Tools for efficient and accurate strain cycles monitoring of metallic railway bridges with wireless sensor networks. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄 ○
	<b>Gallego Juan Manuel, Czaderski Christoph, Michels Julien</b> Experimental Behaviour of RC Slabs Strengthened with EB CFRP Strips Subjected to Fatigue Loading at Elevated Temperatures. Advanced Composites in Construction 2017 , ACIC 2017, University of Sheffield, GB, 09-05 to 09-07 🍄
	<b>Gallego Juan Manuel, Czaderski Christoph, Michels Julien</b> Long-term behavior of RC slabs strengthened with EB CFRP strips subjected to sustained load and exposed to solar radiation. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄



<b>Structural Engineering</b>	<p><b>Ghafoori Elyas, Dawood Mina, Hosseini Ardalán</b> Recent developments of strengthening techniques for metallic structures. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Ghafoori Elyas, Hosseini Ehsan, Michels Julien</b> Stress recovery behavior of an Fe-Mn-Si-Cr-Ni-VC shape memory alloy subjected to cyclic fatigue loading. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Harmanci Yunus Emre, Michels Julien, Chatzi Eleni</b> Behavior of prestressed CFRP Anchorages under Freeze-Thaw Cycle Exposure. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Hosseini Ardalán, Ghafoori Elyas, Motavalli Masoud, Nussbaumer Alain, Al-Mahaidi Riadh, Terrasi Giovanni</b> A novel mechanical clamp for strengthening of steel members using prestressed CFRP plates. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Hosseini Ardalán, Ghafoori Elyas, Motavalli Masoud, Nussbaumer Alain, Zhao Xiao-Ling, Koller Roland</b> Fatigue strengthening of cracked steel plates using prestressed unbonded CFRP reinforcements. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Hosseini Ardalán, Wellauer Matthias, Ghafoori Elyas, Sadeghi Marzaleh Abdola, Motavalli Masoud</b> An experimental investigation into bond behaviour of prestressed CFRP to steel substrate. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Izadi Mohammadreza, Ghafoori Elyas, Hosseini Ardalán, Motavalli Masoud, Maalek Shahrokh</b> Development of anchorage systems for strengthening of steel plates with iron – based shape memory alloy strips. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Izadi Mohammadreza, Ghafoori Elyas, Hosseini Ardalán, Motavalli Masoud, Maalek Shahrokh, Czaderski Christoph, Shahverdi Moslem</b> Feasibility of iron-based shape memory alloy strips for prestressed strengthening of steel plates. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Kotynia Renata, Staskiewicz Michal, Michels Julien, Czaderski Christoph, Motavalli Masoud</b> Shear Capacity Assessment of Posttensioned Concrete Girders Strengthened with CFRP Materials. fib Symposium , Maastricht, NL, 06-12 to 06-14 🍄</p>
	<p><b>Lu Yiyan, Li Weijie, Ghafoori Elyas, Liang Hongjun, Liu Zhenzhen</b> Stiffness prediction of CFRP, steel double strap joins. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Michels Julien, Shahverdi Moslem, Czaderski Christoph, Schranz Bernhard, Motavalli Masoud</b> Iron-based shape memory alloys strips, Part 2: flexural strengthening of RC beams. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Motavalli Masoud</b> Eisenbasierte Formgedächtnislegierungen für das Bauwesen. Innovative Baustoffe, Selbstverdichtender Beton mit CFK Armierung, Dübendorf, 08-22 🍄 ○</p>
	<p><b>Motavalli Masoud, Ilki Alper</b> Welcome address. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 08-15 ▲ ○</p>
	<p><b>Motavalli Masoud, Ilki Alper, Havranek Bernadette, Inci Pinar</b> SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 ■</p>
	<p><b>Palma Pedro</b> Design of timber connections in fire – review of design rules and improvement proposals. ETH Tagung – von der Forschung zur Praxis – neue Lösungen für den Holzbau, ETH Zürich, 02-07 🍄</p>
	<p><b>Sena-Cruz José, Michels Julien, Correia Luis, Harmanci Yunus, Silva Patricia, Gallego Juan Manuel, Fernandes Pedro, Czaderski Christoph, França Paulo M.</b> Recent contributions from UMinho and Empa on durability issues of flexural strengthening of RC slabs with EB CFRP laminates. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Shahverdi Moslem, Michels Julien, Czaderski Christoph, Arabi-Hashemi Ariyan, Motavalli Masoud</b> Iron based shape memory alloy strips, Part 1: characterization and material behavior. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Terrasi Giovanni Pietro, Baschnagel Fabio, Gao Jing, Widmann Robert, Meier Urs</b> Fatigue and durability of laminated carbon fibre reinforced polymer straps for bridge suspenders. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🍄</p>
	<p><b>Weber Benedikt, Feltrin Glauco</b> Nonlinear Stay Cable – Bridge Deck Interaction. EVACES 2017, San Diego, US, 07-12 to 07-14 🍄</p>

<b>Structural Engineering</b>	<p><b>Widmann Robert</b> Keynote Presentation: From then to now: A short history of Swiss Timber Bridge Designs. ICTB 2017, 3<sup>rd</sup> International Conference on Timber Bridges, Skellefteå, SE, 06-26 to 06-29 🌿 ○</p>
	<p><b>Zerbe Lara, Reda Mahmoud, Dawood Mina, Belarbi Abdeldjelil, Senouci Ahmed, Bora Gencturk, Al-Ansari Mohammed, Michels Julien</b> Behavior of Retrofitted Concrete Members using Iron-Based Shape Memory Alloys. SMAR 2017, Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zuerich, 09-13 to 09-15 🌿</p>
<b>Urban Energy Systems</b>	<p><b>Baldini Luca</b> Thermal Energy Supply and Storage in ehub and NEST . 6<sup>th</sup> SCCER Heat &amp; Electricity Storage Symposium, Martigny, 10-25 🌿 ○</p>
	<p><b>Baldini Luca, Fumey Benjamin, Weber Robert</b> Sorption-based long term thermal energy storage using sodium hydroxide. 6<sup>th</sup> SCCER Heat &amp; Electricity Storage Symposium, Martigny, 10-25 ◆</p>
	<p><b>Bollinger Andrew</b> Impact of electricity price policies on optimal district energy system design. BS 2017 Building Simulation IBPSA, San Francisco, US, 08-07 to 08-09 🌿</p>
	<p><b>Bollinger Andrew, Dorer Viktor</b> The Ehub Modeling Tool: A flexible software package for district energy system optimization. CISBAT 2017 International Conference Future Buildings &amp; Districts Energy Efficiency from Nano to Urban Scale, Lausanne, 09-06 to 09-08 ◆</p>
	<p><b>Fumey Benjamin</b> Subtask 4: Component Design for Innovative TES Materials. IEA SHC Task 58 , ECES Annex 33 – Kick-off meeting, Lyon, FR, 04-05 to 04-07 🌿</p>
	<p><b>Fumey Benjamin</b> Subtask 4: Component Design for Innovative TES Materials. IEA SHC Task 58 , ECES Annex 33 – 2<sup>nd</sup> experts meeting, Dübendorf, 10-04 to 10-06 ■</p>
	<p><b>Fumey Benjamin, Weber Robert, Baldini Luca</b> Cycling test of liquid sorption thermal energy storage using sodium hydroxide. SHC 2017 – International Conference on Solar Heating and Cooling for Buildings and Industry and SWC 2017 – ISES Solar World Congress , Abu Dhabi, AE, 10-29 to 11-02 🌿</p>
	<p><b>Heer Philipp</b> Empa ehub – the district scale energy research platform. PhD candidate conference of Darmstadt Graduate School of Excellence Energy Science and Engineering, Annweiler am Trifels, DE, 09-28 to 09-29 🌿</p>
	<p><b>Heer Philipp</b> NEST – Innovative Energiekonzepte im Quartier. Forum Dachverband Schweizer Verteilnetzbetreiber, Olten, 11-10 🌿</p>
	<p><b>Heer Philipp</b> ehub – der Energy Hub Demonstrator. European Power Network , Dübendorf, 11-30 🌿</p>
	<p><b>Hohmann Marc, Evins Ralph, Lygeros John</b> Optimal dispatch of large energy networks considering energy conversion functions. CISBAT 2017 International Conference Future Buildings &amp; Districts Energy Efficiency from Nano to Urban Scale, Lausanne, 09-06 to 09-08 🌿</p>
	<p><b>Marquant Julien F., Bollinger Andrew, Evins Ralph, Carmeliet Jan</b> A new Combined Clustering Method to Analyse the Potential of District Heating Networks at Large-scale. ECOS 2017 – The 30<sup>th</sup> international conference on efficiency, cost, optimization and environmental impact of energy systems, San-Diego, US, 07-02 to 07-06 🌿</p>
	<p><b>Marquant Julien F., Mavromatidis Georgios, Evins Ralph, Carmeliet Jan</b> Comparing different temporal dimension representations in distributed energy system design models. CISBAT 2017 International Conference Future Buildings &amp; Districts Energy Efficiency from Nano to Urban Scale, Lausanne, 09-06 to 09-08 🌿</p>
	<p><b>Mavromatidis Georgios, Orehounig Kristina, Carmeliet Jan</b> Trade-offs between risk-neutral and risk-averse decision making for the design of distributed energy systems under uncertainty. ECOS 2017 – The 30<sup>th</sup> international conference on efficiency, cost, optimization and environmental impact of energy systems, San-Diego, US, 07-02 to 07-06 🌿</p>
	<p><b>Mavromatidis Georgios, Orehounig Kristina, Carmeliet Jan</b> Designing electrically self-sufficient distributed energy systems under energy demand and solar radiation uncertainty. CISBAT 2017 International Conference Future Buildings &amp; Districts Energy Efficiency from Nano to Urban Scale, Lausanne, 09-06 to 09-08 🌿</p>
	<p><b>Miglani Somil, Orehounig Kristina, Carmeliet Jan</b> A methodology for the optimal operation of a residential building energy system with focus on thermal modelling of GSHPs. ECOS 2017 – The 30<sup>th</sup> international conference on efficiency, cost, optimization and environmental impact of energy systems, San-Diego, US, 07-02 to 07-06 🌿</p>
<p><b>Miglani Somil, Orehounig Kristina, Carmeliet Jan</b> Design and optimization of a hybrid solar ground source heat pump with seasonal regeneration. CISBAT 2017 International Conference Future Buildings &amp; Districts Energy Efficiency from Nano to Urban Scale, Lausanne, 09-06 to 09-08 🌿</p>	

Urban Energy Systems	<p><b>Miglani Somil, Orehounig Kristina, Carmeliet Jan</b> Optimization of solar and ground source district heating system using bottom-up technology models. 3<sup>rd</sup> International Conference On Smart Energy Systems and 4<sup>th</sup> Generation District Heating, Copenhagen, DK, 09-12 to 09-13 🌿 ○</p>
	<p><b>Murray Portia, Orehounig Kristina, Carmeliet Jan</b> Power-to-gas for Decentralized Energy Systems: Development of an Energy Hub Model for Hydrogen Storage. BS 2017 Building Simulation IBPSA, San Francisco, US, 08-07 to 08-09 🌿</p>
	<p><b>Orehounig Kristina</b> Potenzial des Gebäudebereichs aus Sicht der Wissenschaft. Wärmetagung 2017, St. Gallen, 09-05 🌿 ○</p>
	<p><b>Orehounig Kristina</b> Bewertung von Multi-Energy Hubs aus Sicht des gesamten Energiesystems. Expertengespräch Metall Zug, Zug, 10-23 🌿 ○</p>
	<p><b>Orehounig Kristina, Landolt Jonas, Mavromatidis Georgios, Omu Akomeno, Wang Danhong, Wu Raphael</b> A method to support multi-criteria decision making for building systems update at urban scale. BS 2017 Building Simulation IBPSA, San Francisco, US, 08-07 to 08-09 🌿</p>
	<p><b>Prasanna Ashreeta, Dorer Viktor</b> Optimization of a District Energy System with a Low Temperature Network (in ). BS 2017 Building Simulation IBPSA, San Francisco, US, 08-07 to 08-09 🌿</p>
	<p><b>Prasanna Ashreeta, Dorer Viktor</b> Feasibility of renewable hydrogen based energy supply for a district. CISBAT 2017 International Conference Future Buildings &amp; Districts Energy Efficiency from Nano to Urban Scale, Lausanne, 09-06 to 09-08 🌿</p>
	<p><b>Prasanna Ashreeta, Dorer Viktor</b> Efficiency of centralised and decentralised low temperature district networks compared with individual heating and cooling systems. 3<sup>rd</sup> International Conference on Smart Energy Systems and 4<sup>th</sup> Generation District Heating, Copenhagen, DK, 09-12 to 09-13 🌿</p>
	<p><b>Sulzer Matthias</b> Casestudi Üetligen &amp; Method Energy Planning. World Sustainable Build Environment, Hong Kong, CN, 06-05 to 06-07 🌿</p>
	<p><b>Sulzer Matthias</b> Neue Konzepte Fernwärme. Neue Konzepte Fernwärme, Bern, 06-29 🌿</p>
	<p><b>Sulzer Matthias</b> SCCER FEEBD. CISBAT 2017 International Conference Future Buildings &amp; Districts Energy Efficiency from Nano to Urban Scale, Lausanne, 09-06 to 09-08 🌿</p>
	<p><b>Sulzer Matthias, Dorer Viktor, Orehounig Kristina</b> P&amp;D Projekte Luxembourg. P&amp;D Projekte Luxembourg, Dübendorf, 06-23 🌿</p>
	<p><b>Tsaousi Raphaela, O'Malley Conor, Hug Gabriela, Bollinger Andrew</b> The influence of participation in ancillary services markets on optimal energy hub operation. 3<sup>rd</sup> International Conference on Smart Energy Systems and 4<sup>th</sup> Generation District Heating, Copenhagen, DK, 09-12 to 09-13 🌿</p>
	<p><b>Waibel Christoph, Bystricky Lukas, Kubilay Aytac, Evins Ralph, Carmeliet Jan</b> Validation of Grasshopper-based Fast Fluid Dynamics for Air Flow around Buildings in Early Design Stage. BS 2017 Building Simulation IBPSA, San Francisco, US, 08-07 to 08-09 🌿</p>
	<p><b>Wang Danhong, Orehounig Kristina, Carmeliet Jan</b> Investigating the potential for district heating networks with locally integrated solar thermal energy supply. CISBAT 2017 International Conference Future Buildings &amp; Districts Energy Efficiency from Nano to Urban Scale, Lausanne, 09-06 to 09-08 🌿</p>
<p><b>Wang Danhong, Orehounig Kristina, Carmeliet Jan</b> A methodology on modelling district heating networks with decentralized renewable energy feed-in. 3<sup>rd</sup> International Conference On Smart Energy Systems and 4<sup>th</sup> Generation District Heating, Copenhagen, DK, 09-12 to 09-13 🌿</p>	
<p><b>Weber Robert, Fumey Benjamin, Moserb Christoph, Baldini Luca</b> TRNSYS Simulation of a Sodium Hydroxide Sorption Storage System. SOLARIS Conference 2017, Brunel University, London, GB, 07-27 to 07-28 🌿</p>	
<b>Materials Meet Life</b>	
Biointerfaces	<p><b>Buhmann Matthias</b> Antimikrobielle Beschichtungen: die Diskrepanz ihrer Wirksamkeit im Labor und in der Anwendung. Winterthurer Oberflächentag, Winterthur, 06-08 🌿 ○</p>
	<p><b>Buhmann Matthias</b> Integrative ureteral stent biofilm analysis: towards a biofilm model. Eurobiofilms conference 2017, Amsterdam, NL, 09-19 to 09-22 🌿</p>
	<p><b>Buhmann Matthias, Abt, D., Nolte, O., Neels, A., Butt, B., Ren, Q.</b> Antifouling materials: analysis of the in vivo setting for improved, predictive in vitro biofilm models. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 🌿</p>

<b>Biointerfaces</b>	<p><b>Fessele Claudia</b> Chemie, Biochemie studieren – und was dann?. Orientierungshalbtage Kantonsschule Burggraben, St. Gallen, 09-07 🍄 ○</p>
	<p><b>Fessele Claudia</b> Biodegradable and antibacterial materials to prevent biofilm formation. Eurobiofilms Conference 2017, Amsterdam, NL, 09-18 to 09-22 ◆</p>
	<p><b>Gontsarik Mark, Buhmann M., Yagmur A., Ren Q., Maniura-Weber K., Salentinig S.</b> Nanocarriers for antimicrobial peptides to fight bacteria and superbugs. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 🍄</p>
	<p><b>Gontsarik Mark, Buhmann Matthias, Yagmur Anan, Ren Qun, Maniura-Weber Katharina, Salentinig Stefan</b> Tuning Colloidal Nanocarriers for Antimicrobial Peptides to Improve Activity against Bacteria and Superbugs. 16<sup>th</sup> European Student Colloid Conference, Florence, IT, 06-18 to 06-23 🍄</p>
	<p><b>Gontsarik Mark, Yagmur Anan, Salentinig Stefan</b> PH-sensitive nanocarriers for delivery of antimicrobial peptides. Drug Research Academy summer School for PhD students, Kopenhagen, DK, 08-23 to 07-27 ◆</p>
	<p><b>Griffoni Chiara, Rottmar Markus, Senturk Berna, Maniura Katharina</b> An advanced 3D model to study and develop materials for Skin wound healing. Termis Conference 2017, Davos, 06-26 to 06-30 ◆</p>
	<p><b>Griffoni Chiara, Senturk Berna, Rottmar Markus, Maniura Katharina</b> An in vitro model for evaluating novel Skin wound healing therapies. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 ◆</p>
	<p><b>Guex Anne Géraldine, Poxson D.J., Fortunato G., Simon D.T., Maniura K., Rossi R., Rottmar M.</b> Electrospun scaffolds with organic electronic ion pumps – novel wound dressings to target skin fibrosis. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 🍄</p>
	<p><b>Guex Anne Géraldine, Poxson D.J., Fortunato G., Simon D.T., Maniura K., Rossi R., Rottmar M.</b> Wound dressings with organic electronic ion pumps for anti-fibrosis therapy. TERMIS-EU 2017, Davos, 06-26 to 06-30 🍄</p>
	<p><b>Guex Anne Géraldine, Poxson David J., Fortunato Giuseppino, Simon Daniel T., Rossi René M., Maniura-Weber Katharina, Rottmar Markus</b> Organic electronic ion pump functionalised wound Dressings to target skin fibrosis. European Society for Biomaterials Annual Meeting, ESB2018, Athen, GR, 09-04 to 09-08 🍄</p>
	<p><b>Guimond Stefanie, Acikgoz C., Lindic M.H., Zuber F., Gutt B., Grieder K., Ren Q., Rottmar M., Maniura-Weber K.</b> Silver ion doped TiN coatings with antibacterial and cytocompatible properties. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 ◆</p>
	<p><b>Huber Rebecca, Rottmar Markus, Müller Eike, Maniura-Weber Katharina, Spencer Nicholas D.</b> Protein adsorption, blood interaction, and cell studies on nanoparticle gradients. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 ◆</p>
	<p><b>Maniura Katharina</b> Materials meet Life activities at Empa. Phonak Seminar on Materials Research, St. Gallen, 03-16 🍄 ○</p>
	<p><b>Maniura Katharina</b> Biointerface Research at Empa. Seminar at Institut de Science des Matériaux de Mulhouse, Mulhouse, FR, 05-09 to 05-10 🍄 ○</p>
	<p><b>Maniura Katharina</b> Session Chair. 10 Years Biomaterial Science Center Basel, University of Basel, 05-11 ▲ ○</p>
	<p><b>Maniura Katharina</b> Session Chair für Student Rapid Fire Presentations. TERMIS-EU 2017, Davos, 06-29 ▲</p>
	<p><b>Maniura Katharina</b> Nanocellulose based bio-hybrid materials for advanced monitoring or therapeutic applications. International Conference on Molecular Systems Engineering, Basel, 08-29 🍄 ○</p>
	<p><b>Maniura Katharina</b> Design concepts for nanocelluloses with a biomedical function. Seminar at Leibniz Institut für Polymerforschung Dresden, Dresden, DE, 11-17 🍄 ○</p>
	<p><b>Maniura Katharina, Acikgoc Canet, Büscher Robin</b> The interdisciplinary journey of a new antimicrobial coating towards the market. European Society for Biomaterials Annual Meeting, ESB2018, Athen, GR, 08-03 to 08-11 🍄 ○</p>
	<p><b>Mertgen Anne-Sophie, Guex Anne Géraldine, Faccio Greta, Fortunato Giuseppino, Rossi René, Rottmar Markus, Maniura Katharina</b> Enhancing endothelialisation of electrospun membranes via biofunctionalization for a bioinspired blood material interface. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 🍄</p>

<b>Biointerfaces</b>	<p><b>Müller Eike, Rottmar Markus, Guimond Stefanie, Tobler Ursina, Stephan Marc, Berner Simon, Maniura Katharina</b> The interplay of surface chemistry and (nano-)topography defines the osseointegrative potential of Roxolid dental implant surfaces. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 ◆</p>
	<p><b>Müller Eike, Rottmar Markus, Guimond Stefanie, Tobler Ursina, Berner Simon, Maniura Katharina</b> Deciphering osteogenic Differentiation of bone progenitor cells on novel dental implant surfaces. 2017 Termis-EU Conference, Davos, 06-26 to 06-30 ◆</p>
	<p><b>Ren Qun</b> Bacteria @ Surfaces. Massgeschneiderte Oberflächen an der Grenze zwischen Nass und Trocken, St. Gallen, 06-01 ♣ ○</p>
	<p><b>Ren Qun, Ertem Elif, Gutt Beatrice, Zuber Flavia, Allegri Sergio, Le Ouay Benjamin, Mefti Selma, Formentin Kitty, Maniura-Weber Katharina, Stellacci Francesco, Ren Qun</b> Core-Shell silver nanoparticles in endodontic disinfection Solutions enable Long-term antimicrobial effect on oral biofilms. Eurobiofilm Conference 2017, Amsterdam, NL, 09-19 to 09-22 ◆</p>
	<p><b>Ren Qun, Gutt, B., Hauser-Gerspach, I., Kardas, P., Stübinger, S., Astasov-Frauenhoffer, M., Waltimo, T.</b> Beneficial oral biofilms as an effective tool to maintain a balanced oral microbial community. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 ◆</p>
	<p><b>Rottmar Markus</b> Understanding and steering cell-material interactions. Seminar series, Department of Applied Sciences and Mechatronics, Hochschule für Angewandte Wissenschaften, München, DE, 11-17 ♣ ○</p>
	<p><b>Rottmar Markus, Malheiro Vera, Griffoni Chiara, Sentürk Berna, Maniura-Weber Katharina</b> An in vitro model to understand the role of Fibrin in wound healing and inflammation. European Society for Biomaterials Annual Meeting, ESB2018, Athen, GR, 09-04 to 09-08 ♣</p>
	<p><b>Salentinig Stefan</b> Antimicrobial peptide – Lipid nanostructures for the fight against bacteria . 2017 International Conference on Biomacromolecules and Biomimetic Materials (ICBBM 2017), Boracay, PH, 03-06 to 03-12 ♣</p>
	<p><b>Salentinig Stefan</b> Fighting bacteria with biomimetic nanostructures based on antimicrobial Peptide – Lipid interactions. 2017 International Conference on Biomacromolecules and Biomimetic Materials (ICBBM 2017), Boracay, PH, 03-06 to 03-12 ♣</p>
	<p><b>Salentinig Stefan</b> Combining in-situ SAXS and electron microscopy to study self-assembly in biology. Topical Days on Imaging and Image Analysis, Dübendorf, 04-04 to 04-05 ♣ ○</p>
	<p><b>Salentinig Stefan</b> Neue Methoden der Bakterienbekämpfung. Chemielehrerkongress "Chemie-Innovation", Liechtenstein, LI, 04-19 to 04-22 ♣ ○</p>
	<p><b>Salentinig Stefan</b> Antimicrobial Peptide-Lipid nanostructures for the fight against bacteria. Workshop on Cell-Biomaterials Interfaces, Cambridge, GB, 06-04 to 06-08 ♣ ○</p>
	<p><b>Salentinig Stefan</b> From biomolecular structure to function – SAXS applied to soft biomaterials. SAXSday 2017, St. Gallen, 07-07 ♣ ○</p>
	<p><b>Salentinig Stefan</b> Particle Characterisation. Particle Day, St. Gallen, 08-24 ♣ ○</p>
	<p><b>Salentinig Stefan</b> X-ray scattering to investigate material properties and functionality – some examples. Dispersion Science and Technology Annual Network Meeting, Nestle Research Center, Lausanne, 10-25 to 10-27 ♣ ○</p>
	<p><b>Straub Hervé, Zhang, H.J., Maniura-Weber, K., Rossi, R.M., Ren, Q.</b> A microfluidics-based Approach to investigate the factors influencing the Initial Phase of bacterial adhesion on surfaces. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 ◆</p>
	<p><b>Straub Hervé, Zhang Haijiang, Rossi René, Maniura Katharina, Ren Qun</b> Development of an in vitro biofilm model using microfluidics. Eurobiofilm Conference 2017, Amsterdam, NL, 09-18 to 09-21 ♣</p>
	<p><b>Valentin Jules, Bigger Claudio, Straub Hervé, Abt Dominik, Maniura-Weber Katharina, Ren Qun</b> Impact of material stiffness on bacterial adhesion. Eurobiofilm Conference 2017, Amsterdam, NL, 09-19 to 09-22 ♣</p>
	<p><b>Weishaupt Ramon, Heuberger, L., Faccio, G., Siqueira, G., Zimmermann, T., Maniura-Weber, K.</b> Engineering biomolecules for advanced nanocellulose based antimicrobial coatings. 23<sup>rd</sup> Swiss Conference on Biomaterials and Regenerative Medicine (SSB+RM2017), St. Gallen, 05-17 to 05-18 ◆</p>
	<p><b>Weishaupt Ramon, Heuberger Lukas, Siqueira Gilberto, Zimmermann Tanja, Salentinig Stefan, Maniura-Weber Katharina</b> Protein-nanocellulose bio-hybrid materials for advanced therapeutic applications. FEBS Workshop – Biological Surfaces and Interfaces: Interface Dynamics, Sant Feliu de Guixols, ES, 07-02 to 07-07 ◆</p>



<b>Biomimetic Membranes and Textiles</b>	<b>Annaheim Simon, Camenzin Martin, Schoch Otto, Brutsche Martin, Baty Florent, Rossi René M</b> Continuous sleep-apnea screening in an unattended home-setting. Jahrestagung der Biomedizinischen Technik und Dreiländertagung der Medizinischen Physik, Dresden, DE, 09-10 to 09-13 🍄
	<b>Annaheim Simon, Weder Markus, Baty Florent, Van Gestel Arno, Schoch Otto, Brutsche Martin, Rossi Rene M</b> A wearable electro cardiogram acquisition system for sleep apnea detection. Swiss Medtech Day 2017, Bern, 06-13 ♦
	<b>Annaheim (last author) Simon, Engelhard Daniel, Lehr Kim, Hofer Pierre</b> Auswirkungen verschiedener Kühlapplikationen auf den Heilungsverlauf nach einer vorderen Kreuzbandoperation – eine Pilotstudie. Schweizer Sportmedizin Kongress, Interlaken, 10-26 to 10-27 ♦
	<b>Annaheim (Co-Author) Simon, Hehli DJ, Rhomberg F, Betschart H, Noack P</b> Schwankungen der Ergebnisse bei der Ferritinanalyse durch sechs verschiedene Medizinlabors. Schweizer Sportmedizin Kongress, Interlaken, 10-26 to 10-27 ♦
	<b>Boesel Luciano F.</b> Smart textiles as materials for continuous health monitoring. Second European Conference on Innovations in Textiles for Healthcare, Gent, BE, 02-07 to 02-08 🍄
	<b>Koelblen Barbara, Psikuta Agnes, Bogdan Anna, Annaheim Simon, Rossi René</b> Validation of local thermal sensation models. Healthy Buildings 2017 Europe, Lublin, PL, 07-02 to 07-05 🍄
	<b>Mandal Sumit, Martin Camenzind, Simon Annaheim, René Rossi</b> A new approach for evaluating the thermal protective performance of fabrics used in firefighters' clothing under flash fire exposure. 17 <sup>th</sup> World Textile Conference AUTEX 2017, Corfu, GR, 05-29 to 05-31 🍄
	<b>Mandal Sumit, Simon Annaheim, Martin Camenzind, René Rossi</b> Characterization of thermal protective fabric materials under fire exposure. 2017 Materials Research Society Spring Meetings & Exhibit, Arizona, US, 04-17 to 04-21 🍄
	<b>Mandal Sumit, Simon Annaheim, Martin Camenzind, Rene Rossi</b> Radiant-heat protective performance of fabrics used in firefighters' clothing: a scientific study. Fiber Society Spring Conference, Aachen, DE, 05-17 to 05-19 🍄
	<b>Mert Emel, Psikuta Agnes, Arevalo Marlene, Charbonnier Caecilia, Luible-Bär Christiane, Bueno Marie-Ange, Rossi Rene M</b> Quantitative validation of 3D garment simulation software for determination of air gap thickness in lower body garments. 17 <sup>th</sup> World Textile Conference AUTEX 2017, Corfu, GR, 05-28 to 05-31 🍄
<b>Quandt Brit Maike, Boesel Luciano F., Rossi René M.</b> Soft Polymer Optical Fibers for Healthcare: Tailoring Production and Properties of Photonic Textiles (Plenary Talk). Fiber Society Spring Meeting 2017, Aachen, DE, 05-17 to 05-19 🍄 ○	
<b>Ulrich Sebastian, Hemmer James R., Rifaie-Graham Omar, Page Zachariah, Bruns Nico, Read de Alaniz Javier, Boesel Luciano F.</b> Visible light-responsive polymers based on DASA photochroms. European Polymer Federation Congress 2017, Lyon, FR, 07-02 to 07-07 🍄	
<b>Ulrich Sebastian, Mugemana Clement, Rossi René M., Bruns Nico, Boesel Luciano F.</b> Stimuli-responsive Amphiphilic Polymer Co-Networks of variable compositions. European Polymer Federation Congress 2017, Lyon, FR, 07-02 to 07-07 ♦	
<b>Center for X-ray Analytics</b>	<b>Balogh-Michels Zoltan, A. Faeht, S. Kleiner, J.M. Rufer, P. Markgraf, A. Neels, A. Dommann</b> Various fields of the Crystallography. 25 <sup>th</sup> Annual Meeting of the German Crystallographic Society, Karlsruhe, DE, 03-27 to 03-30 🍄
	<b>Balogh-Michels Zoltan, A. Faeht, S. Kleiner, J.M. Rufer, P. Markgraf, A. Neels, A. Dommann</b> Theory of diffusion, diffusion in engineering materials. DIMAT 10th International Conference on Diffusion in Materials, Haifa, IL, 05-07 to 05-12 🍄
	<b>Boxiao Ma, Stritt Carina</b> Color Image Segmentation Using Iterative Edge Cutting, NUV-EM, and Gaussian Message Passing. 5 <sup>th</sup> IEEE Global Conference on Signal and Information Processing (GlobalSIP2017), 14-16 November, 2017, Montreal, Canada, Montreal, CA, 11-14 to 11-16 🍄
	<b>Fliisch Alexander</b> ACXIS – Automated Comparison of X-ray Images for cargo Scanning. CRIM-TRACK Dissemination Workshop, Vilnius, LT, 04-21 🍄 ○
	<b>Fliisch Alexander, M. Plamondon, T. Lüthi, S. Kolokytha, A. Kunz, A. Schwaninger, D. Hardmeier, M. Costin, C. Vienne, F. Sukowski, U. Hassler, I. Dorion, N. Gadi, S. Maitrejean, A. Marciano, E. Rochat, G. Koomen, M. Slegt</b> ACXIS – Automated Comparison of X-ray Images for Cargo Scanning. 2 <sup>nd</sup> workshop on Customs Detection Technologies, Tartu, EE, 10-10 to 10-12 🍄 ○
	<b>Fliisch Alexander, W. Visser, Irène Dorion, N. Gadi, F. Sukowski, U. Hassler</b> ACXIS – Automated Comparison of X-ray Images for cargo Scanning. European Commission – Directorate General for Taxation and Customs Union – 1 <sup>st</sup> Meeting of Detection Technology Network, Brussels, BE, 01-11 to 01-12 🍄 ○



<b>Center for X-ray Analytics</b>	<p><b>Kaufmann Rolf</b> Grenzen der Computertomographie in der geometrischen Messtechnik. NTB Workshop Produktionsmesstechnik, Buchs SG, 09-07 🍄 ○</p>
	<p><b>Kaufmann Rolf, M. Plamondon, J. Hoffmann, A. Neels</b> Comparison of different phase retrieval algorithms. SPIE Optics and Photonics, Developments in X-ray Tomography, San Diego, US, 08-06 to 08-10 🍄</p>
	<p><b>Kolokytha Selina</b> The future of boarded control.. International Crime Science Conference 2017, London, GB, 07-12 🍄 ○</p>
	<p><b>Maurya Anjani, Sadeghpour Amin, Rossi René, Dommann Alex, Neels Antonia</b> Structural analysis of electrospun nanofibers by SAXS and WAXS. SGK Annual Meeting 2017, Geneva, 09-12 🍄</p>
	<p><b>Neels Antonia</b> Things to be done with an STOE IPDS besides Single Crystal Work. STOE USER MEETING 2017, Darmstadt, DE, 09-07 to 09-08 🍄</p>
	<p><b>Neels Antonia, A. Neels, A. Schifferle, T. Bandi, A. Dommann</b> "HR-XRD for strain and defects studies in semi-conductor materials and devices". Microsystems Reliability, FhG ENAS Chemnitz, Chemnitz, DE, 06-28 🍄</p>
	<p><b>Neels Antonia, A. Neels, G. Siqueira, M. Hausmann, Tanja Zimmermann, S. Dalle Vacche, Y. Leterrier, A. Dommann</b> Synthetic polymers: WAXS and SAXS methods to understand materials functionality. IUCr 2017, 24<sup>th</sup> Congress and General Assembly of the International Union of Crystallography, Hyderabad, IN, 08-21 to 08-28 🍄</p>
	<p><b>Neels Antonia, A. Neels, R. Kaufmann, A. Dommann</b> X-ray Analytics in Medicine. SVMT: Biomaterialien — Wechselwirkungen zwischen Werkstoffen und bildgebenden Verfahren in der Medizintechnik, Brugg, 01-17 🍄 ○</p>
	<p><b>Neels Antonia, A. Neels, R. Kaufmann, A. Dommann</b> Alloy Design &amp; Multiscale X-ray Analytics for Additive Manufacturing. UK, – Bilateral Workshop on Space Technology: Additive Layer Manufacturing Technologies for Space Applications, Oxford, GB, 01-31 to 02-07 🍄</p>
	<p><b>Plamondon Mathieu, M. Plamondon, C. Stritt, S. Kolokytha, T. Lüthi, R. Kaufmann, A. Flisch, A. Neels</b> Investigation of the European Retrievable Carrier (EURECA) at different scales by means of X-ray radiography and computed tomography. 7<sup>th</sup> Conference on Industrial Computed Tomography (iCT 2017), Leuven, BE, 02-07 to 02-09 🍄</p>
	<p><b>Ramirez Joaquin</b> A single crystal diffractometer's secret life: use it to measure Pair Distribution Functions. STOE USER MEETING 2017, Darmstadt, DE, 09-07 to 09-08 🍄</p>
	<p><b>Sadeghpour Amin</b> Lipid Mesophases as Studied by Small Angle X-ray Scattering. Invited Speaker (University of Geneva), Geneva, 06-08 🍄 ○</p>
	<p><b>Sadeghpour Amin</b> Specific Features of 3-Dimensional Lipid Mesophases Revealed by Global Analysis of SAXS Data. SAXS excites; International SAXS Symposium 2017, Graz, AT, 09-26 to 09-27 🍄</p>
	<p><b>Sadeghpour Amin, Michael Rappolt</b> Curved Lipid Mesophases and Their Interactions with Flavonoids: A Small Angle X-ray Scattering (SAXS) Study. UK Colloids 2017, Manchester, GB, 07-10 to 07-12 🍄</p>
	<p><b>Yang Fei, Griffa Michele, Prade Friedrich, Kaufmann Rolf, Hipp Alexander, Derluyn Hanelore, Moonen Peter, Boone Mathieu, Herzen Julia, Pfeiffer Franz, Beckmann Felix, Lura Pietro</b> Imaging water Transport in cement-based materials with gratings: multi-contrast modalities from synchrotron Radiation to laboratory-scale. Int. Conference on X-ray and Neutron Phase Imaging with Gratings, Zürich, 09-12 to 09-15 🍄</p>
<b>Nanoscale Materials Science</b>	<p><b>Bacani Mirko, Penedo Marcos, Fernandez-Peña Stephanie, Marioni Miguel A., Scholder Olivier, Gariglio Stefano, Triscone Jean-Marc, Hug Hans J.</b> NOVEL PIEZORESPONSE FORCE MICROSCOPY TECHNIQUE APPLIED TO Pb<sub>0.8</sub>Sr<sub>0.2</sub>TiO<sub>3</sub> THIN FILMS. 3<sup>rd</sup> Functional Oxide Thin Films for Advanced Energy and Information Technology Conference, Rome, IT, 07-05 to 07-08 ◆</p>
	<p><b>Bernard Laetitia</b> Bio-chemical mapping by ToF-SIMS. TEDD Event, Empa St Gallen, 11-30 🍄 ○</p>
	<p><b>Bernard Laetitia, Rupper Patrick, Hegemann Dirk, Faccio Greta, Maniura-Weber Katharina, Heuberger Manfred, Vandenbossche Marianne</b> The versatility of ToF-SIMS for the study of functional plasma poly-mer film gradients. SIMS21 International conference, Krakow, PL, 09-11 to 09-15 🍄</p>
	<p><b>Bernard Laetitia, Schmutz Patrik, Vetushka Aliaksei, Baše Tomáš</b> Chemical interactions within self-assembled monolayers of dipole-oriented carborane molecules on gold surfaces. SIMS21 International conference, Krakow, PL, 09-11 to 09-15 ◆</p>
	<p><b>Bilek^ Marcela, Rajesh Ganesan, Stephen Bathgate, David. R. McKenzie</b> Synchronised external magnetic fields applied in HiPIMS enhance plasma generation and plasma transport. 8<sup>th</sup> International Conference on Fundamentals and Industrial Applications of HIPIMS   Braunschweig 2017, Civic Centre, Stadthalle, Braunschweig, DE, 06-13 to 06-14 🍄</p>

**Crockett Rowena**

Ecotrib 2017, Ljubljana, SI, 06-07 to 06-09 ■

**Crockett Rowena**

Evaluation of the sound and motion of Tinguely's art, Empa Akademie, 09-29 ■

**Crockett Rowena**

Stick-slip: high friction systems. lectures at NTNU and SINTEF in Norway, Trondheim, NO, 11-28 to 12-01 ♣ ○

**Ernst Karl-Heinz**

Helical Molecules at Surfaces: Spin Filtering and Unidirectional Motors. SSNS'17, Furano, JP, 01-11 to 01-15 ♣ ○

**Ernst Karl-Heinz**

Helical Molecules at Surfaces: Self-Assembly, Spin Filtering and Unidirectional Motors. International Symposium on Visionary Trends in Molecular Science, Tianjin, CN, 02-24 to 02-26 ♣ ○

**Ernst Karl-Heinz**

Helical Molecules and Surfaces: Self-assembly, Spin Filtering and Unidirectional Motors. German Physical Society (DPG) Meeting, Dresden, DE, 03-19 to 03-24 ♣ ○

**Ernst Karl-Heinz**

Helical molecules and surfaces: self-assembly, spin-filtering and unidirectional motors. Czeck Academy of Sciences Kolloquium, Prag, CZ, 04-05 ♣ ○

**Ernst Karl-Heinz**

Molecular dynamics on surfaces: self-assembly and molecular machines. Physikalische Chemie Kolloquium, Georg-August-Universität Göttingen, DE, 05-04 ♣ ○

**Ernst Karl-Heinz**

Nonplanar aromatic molecules at surfaces: self-assembly, spin filtering and molecular motors. Physikolloquium, Johannes Kepler Universität Linz, AT, 05-11 ♣ ○

**Ernst Karl-Heinz**

Chirality in flatland: intermolecular recognition and molecular machines at surfaces. Chemistry Seminar, Katholike University of Leuven, BE, 05-15 ♣ ○

**Ernst Karl-Heinz**

Stereochemistry in flatland: intermolecular recognition and molecular machines. Chemistry Seminar, University of Hong Kong, HK, 05-31 ♣ ○

**Ernst Karl-Heinz**

Back-to-back or belly-to-belly: self-assembly of non-planar aromatic hydrocarbons on surfaces. HUST Physics Colloquium, Hong Kong University of Science and Technology, HK, 06-01 ♣ ○

**Ernst Karl-Heinz**

Stereochemistry in flatland: chiral recognition in 2D lattices at surfaces. Symposium on Molecular and Materials Sciences, Université Angers, FR, 06-16 ♣ ○

**Ernst Karl-Heinz**

Chiral recognition among helical hydrocarbons in molecular layers on metal surfaces. International Workshop on Nanomaterials and Nanodevices, Beijing, CN, 07-04 to 07-06 ♣ ○

**Ernst Karl-Heinz**

Electric-driven molecular machines on surfaces: rotors, walkers and nanocars. International Workshop on Nanomaterials and Nanodevices, Xi'an, CN, 07-07 ♣ ○

**Ernst Karl-Heinz**

Nonplanar aromatic molecules at surfaces: self-assembly, spin-filtering and molecular motors. Institute Seminar, Beijing Institute of Technology, CN, 07-10 ♣ ○

**Ernst Karl-Heinz**

Erecting buckybowls onto their edge: 2D assembly of terphenylcorannulene on the Cu(111) surface. Faraday Discussions Complex Molecular Surfaces and Interfaces, Sheffield, GB, 07-24 to 07-26 ♣ ○

**Ernst Karl-Heinz**

Helical aromatic molecules at surfaces: self-assembly, spin filtering and molecular motors. Chemistry Seminar, University of Liverpool, GB, 07-27 ♣ ○

**Ernst Karl-Heinz**

World in a mirror: chirality and the birth of molecules. Chemical Engineering Seminar, Carnegie Mellon University, Pittsburg, PA, US, 08-16 ♣ ○

**Ernst Karl-Heinz**

Chirality in flatland: chiral recognition, spin filtering and molecular machines. Pitt, CMU Minisymposium, University of Pittsburg, US, 08-17 ♣ ○

**Ernst Karl-Heinz**

Helical molecules at surfaces: self-assembly, spin filtering and unidirectional motors. Chemistry Seminar, University of Wyoming, Laramie, US, 08-22 ♣ ○

**Ernst Karl-Heinz**

Helical Molecules at Surfaces: Stereoselective Chemistry and Molecular Machines. SFB 677 Conference "Molecular Switches", Plön, DE, 08-27 to 08-30 ♣ ○

**Ernst Karl-Heinz**

World in a mirror: chirality and the birth of molecules. moltech Anjou colloquium, Université Angers, FR, 10-09 ♣

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<b>Nanoscale Materials Science</b>	<b>Ernst Karl-Heinz</b> Molecular chirality at surfaces: 2D crystallization, electron spin filtering, single molecule manipulation and unidirectional motors. moltech Anjou colloquium, Université Angers, FR, 10-16 ♣ ○
	<b>Ernst Karl-Heinz</b> Driving molecular machines with electrons on surfaces: rotors, walkers and nanocars. International Conference on Novel Nanomaterials ICON2, Synchrotron Soleil - CEA Saclay, FR, 10-18 to 10-20 ♣ ○
	<b>Ernst Karl-Heinz</b> Unidirectional motion of molecules on surfaces powered by electron scattering. Symposium on Nanomachines: Powering Molecules, Hong Kong, HK, 11-29 to 12-01 ♣ ○
	<b>Ernst Karl-Heinz</b> Helical Molecules at Surfaces: Stereoselective Chemistry and molecular machines. Atomic Level Characterization ALC'17, Kauai, Hawaii, US, 12-03 to 12-08 ♣ ○
	<b>Ernst Karl-Heinz, A. Mairena, J. Li, L. Zoppi, J. Seibel, M. Parschau, A. F. Tröster, K. Grenader, K. Martin, N. Avarvari, A. Terfort, C. Wäckerlin</b> Chiral recognition among helical aromatic hydrocarbons on metal surfaces. CD 2017, Rennes, FR, 06-11 to 06-15 ♣
	<b>Ernst Karl-Heinz, M. Kettner, J. Seibel, V. Maslyuk, D. Nürenberg, R. Gutierrez, G. Cuniberti, H. Zacharias</b> Chirality-induced spin selectivity in monolayers of heptahelicene. 3 S'17, St. Moritz, 03-05 to 03-11 ◆
	<b>Ernst Karl-Heinz, M. Kettner, J. Seibel, V. Maslyuk, D. Nürenberg, R. Gutierrez, G. Cuniberti, H. Zacharias</b> Chirality-induced spin selectivity in monolayers of heptahelicene. qMol, Monte Verita, Ascona, 09-10 to 09-14 ◆
	<b>Ernst Karl-Heinz, T. Kudernac, G. Srivastava, M. Parschau, P. Stacko, B. Feringa</b> Driving molecular machines with electrons on surfaces: rotors, walkers and nanocars. Molecular Machines Nobel Prize Conference, Groningen, NL, 11-19 to 11-22 ♣
	<b>Fischer Maria, Scopece Daniele, Pignedoli Carlo, Passerone Daniele, Hug Hans Josef</b> Vacancies in Al-Si, O-N. CCMX 2017 Materials Science Day, Empa Dübendorf, Akademie, 10-05 ◆
	<b>Fischer Maria, Scopece Daniele, Pignedoli Carlo, Trant Mathis, Thorwarth Kerstin, Hug Hans Josef, Passerone Daniele, Patscheider Jörg</b> Vacancies as Stabilizers in Ternary and Quaternary Thin Films of Al, Si, O and N. 44 <sup>th</sup> International Conference On Metallurgical Coatings & Thin Films, San Diego, US, 04-24 to 04-28 ♣
	<b>Fischer Maria, Trant Mathis, Thorwarth Kerstin, Patscheider Jörg, Hug Hans Josef</b> Hard Transparent Coatings in the Al-Si-O-N System. 16 <sup>th</sup> International Conference on Reactive Sputter Deposition, Pilsen, CZ, 12-04 to 12-06 ♣
	<b>Fischer Maria Ruth, Trant Mathis, Thorwarth Kerstin, Hug Hans Josef, Patscheider Jörg</b> Properties Evolution in Al-O-N Thin Films. 15 <sup>th</sup> International Conference on Plasma Surface Engineering (PSE) 2016, Garmisch-Partenkirchen, DE, 2016-09-11 to 2016-09-16 ◆
	<b>Fischer Maria Ruth, Trant Mathis, Thorwarth Kerstin, Hug Hans Josef, Patscheider Jörg</b> Ternary and Quaternary Aluminum Oxynitride Thin Films by Reactive DC Magnetron Sputter Deposition. Empa PhD Symposium 2016, Dübendorf, 2016-11-14 ♣
	<b>Ganesan Rajesh, Behnam Akhavan, David. R. McKenzie and Marcela M.M. Bilek</b> The target condition dependent optical and electronic functionalities of WO <sub>3</sub> and WO <sub>x</sub> Ny films deposited by reactive HiPIMS. 8 <sup>th</sup> International Conference on Fundamentals and Industrial Applications of High Power Impulse Magnetron Sputtering HIPIMS, Civic Centre, Stadthalle, Braunschweig, DE, 06-13 to 06-14 ♣
	<b>Ganesan Rajesh, Behnam Akhavan, David. R. McKenzie and Marcela M.M. Bilek, Kerstin Thowarth and Hans-Joseph Hug</b> High mobility amorphous zinc oxynitride films deposited by reactive-HiPIMS. 8 <sup>th</sup> International Conference on Fundamentals and Industrial Applications of HIPIMS   Braunschweig 2017, Civic Centre, Stadthalle, Braunschweig, DE, 06-13 to 06-14 ◆
	<b>Ganesan Rajesh, Mathis Trant, Kerstin Thowarth and Hans-Josef Hug, Marcela MM. Bilek and David R. McKenzie</b> Control of process pressure and Ar, O <sub>2</sub> ratio in reactive-HiPIMS to deposit high-stability and high-mobility zinc oxynitride films for thin-film transistor devices. The International Conference on Reactive Sputter Deposition (RSD), Plzen, Czech Republic, CZ, 12-04 to 12-06 ♣
	<b>Ganesan Rajesh, Mathis Trant, Kerstin Thowarth, Hans-Josef Hug, B. Akhavan, Marcela MM. Bilek, David R. McKenzie</b> Duty cycle assisted modulation of morphology and composition of Vanadium oxide films grown by reactive HiPIMS for thermochromic applications. The International Conference on Reactive Sputter Deposition (RSD), Plzen, Czech Republic, CZ, 12-04 to 12-06 ◆
	<b>Gehrig Jeffrey Carl, Penedo Marcos, Parschau Manfred, Schwenk Johannes, Marioni Miguel A., Hudson Eric W., Hug Hans J.</b> Surface single-molecule dynamics controlled by entropy at low temperatures. 33 <sup>rd</sup> SAOG Meeting, Fribourg, 01-27 ♣

<b>Nanoscale Materials Science</b>	<p><b>Gehrig Jeffrey Carl, Penedo Marcos, Parschau Manfred, Schwenk Johannes, Marioni Miguel A., Hudson Eric W., Hug Hans J.</b> Surface single-molecule dynamics controlled by entropy at low temperatures. Joint Annual Meeting of the SPS and APS, Genève, 08-21 to 08-25 🍄</p>
	<p><b>Gehrig Jeffrey Carl, Penedo Marcos, Parschau Manfred, Schwenk Johannes, Marioni Miguel A., Hudson Eric W., Hug Hans J.</b> Surface single-molecule dynamics controlled by entropy at low temperatures. PhD Students' Symposium 2017, Dübendorf, 11-13 🍄</p>
	<p><b>Hug Hans J.</b> Session DD: Skyrmions and Vortex Motion. InterMag, Dublin, IE, 04-24 to 04-28 ▲ ○</p>
	<p><b>Hug Hans J.</b> Scanning Probe Microscopy. ESONN Nanoscience School, Grenoble, FR, 08-28 to 08-30 🍄 ○</p>
	<p><b>Hug Hans J., Bacani Mirko, Penedo Marcos, Schwenk Johannes, Zhao Xue, Mandru Andrada, Marioni Miguel</b> Local Dzyaloshinskii-Moriya Interaction in <math>\gamma</math>-Skyrmion Thin-Film Multilayers measured by Magnetic Force Microscopy. Seminar, Tu Vienna, AT, 02-24 🍄 ○</p>
	<p><b>Hug Hans J., Bacani Mirko, Penedo Marcos, Zhao Xue, Mandru Andrada, Marioni Miguel</b> High-resolution and Quantitative Magnetic Force Microscopy. AIST – Empa Workshop, Empa, Dübendorf, 05-30 🍄 ○</p>
	<p><b>Hug Hans J., Bacani Mirko, Penedo Marcos, Zhao Xue, Mandru Andrada, Marioni Miguel</b> Quantitative high-resolution Magnetic Force Microscopy: Applicationsto Systems with interfacial Dzyaloshinskii-Moriya Interaction. Functional Oxides, Roma, IT, 07-05 to 07-08 ◆</p>
	<p><b>Hug Hans J., Fischer Maria, Thorwarth Kerstin, Ganesa Rajesh, Passerone Daniele, Scopece Daniele</b> Hard Coatings &amp; Coatings Competence Center (Ingenia S3pTM). Praxiszirkel Hardcoatings, Empa, Dübendorf, 10-17 🍄 ○</p>
	<p><b>Hug Hans J., Ganesan Rajesh, Thorwarth Kerstin, Passerone Daniele, Scopece Daniele, Guimond Sebastien</b> CCMX Materials Challenge "Coatings Competence Center. CCMX Annual Event, Empa, Dübendorf, 10-05 🍄 ○</p>
	<p><b>Hug Hans J., Gehrig Jeffrey, Penedo Marcos, Parschau Manfred, Schwenk Johannes, Marioni Miguel, Hudson Eric</b> Surface single-molecule dynamics controlled by entropy at low temperatures. Seminar, Penn State University, US, 11-06 🍄 ○</p>
	<p><b>Hug Hans J., Marioni Miguel, Penedo Marcos, Bacani Mirko</b> Nanoscale Mallinson-Halbach Effect based on Chiral Thin Film Multilayer with interfacial Dzyaloshinski-Moriya Interaction. InterMag, Dublin, IE, 04-24 to 04-28 🍄</p>
	<p><b>Hug Hans J., Penedo Marcos, Bacani Mirko, Marioni Miguel, Zhao Xue, Mandru Andrada</b> Nanoscale Mallinson-Halbach Effect based on Thin Film Multilayers with interfacial DMI. 3S, Davos, 03-06 to 03-10 ◆</p>
	<p><b>Hug Hans J., Penedo Marcos, Bacani Mirko, Marioni Miguel, Schwenk Johannes, Zhao Xue, Mandru Andrada</b> Nanoscale Mallinson-Halbach Effect based on Thin Film Multilayers with interfacial DMI. Skymag, Paris, FR, 05-02 to 05-05 ◆</p>
	<p><b>Hug Hans J., Penedo Marcos, Bacani Mirko, Schwenk Johannes, Zhao Xue, Mandru Andrada, Marioni Miguel</b> Skyrmion spin profiles and supporting Dzyaloshinskii-Moriya interaction by quantitative magnetic force microscopy. Solskymag, San Sebastian, ES, 06-19 to 06-23 🍄</p>
	<p><b>Hug Hans J., Penedo Marcos, Bacani Mirko, Schwenk Johannes, Zhao Xue, Mandru Andrada, Marioni Miguel</b> Using quantitative Magnetic Force Microscopy to assess average and local values of Dzyaloshinskii-Moriya interaction. Swiss Physical Society Meeting, Geneva, 08-22 🍄 ○</p>
	<p><b>Hug Hans J., Penedo Marcos, Bacani Mirko, Schwenk Johannes, Xue Zhao, Mandru Andrada, Marioni Miguel</b> Average and Local Dzyaloshinskii-Moriya interaction in thin Films with interfacial DMI. MMM 2017, Pittsburgh, US, 11-06 to 11-10 🍄</p>
	<p><b>Hug Hans J., Penedo Marcos, Bacani Mirko, Schwenk Johannes, Xue Zhao, Mandru Andrada, Marioni Miguel</b> Using quantitative Magnetic Force Microscopy to assess average and local values of Dzyaloshinskii-Moriya interaction. Seminar, NYU, US, 11-13 🍄 ○</p>
	<p><b>Hug Hans J., Penedo Marcos, Bacani Mirko, Schwenk Johannes, Zhao Xue, Marioni Miguel</b> Skyrmion spin profiles and supporting Dzyaloshinskii-Moriya interaction by quantitative magnetic force microscopy. MRS Fall Meeting, Boston, US, 11-27 to 12-01 🍄</p>
	<p><b>Kawecki Maciej, Bernard Laetitia, Hany Roland, Jenatsch Sandra, Diethelm Matthias, Hug Hans. J.</b> Sequential Tracking of ionic Migration in active electronic devices by means of ToF-SIMS. 21<sup>st</sup> international SIMS conference, Krakow, PL, 09-10 to 09-15 🍄</p>

<b>Nanoscale Materials Science</b>	<b>Kawecki Maciej, Hany Roland, Jenatsch Sandra, Hug Hans J., Bernard Laetitia</b> Sequential tracking of ion migration in active electronic devices. Réunion Francophone des Utilisateurs ToF-SIMS, Fuveau, FR, 03-22 to 03-23 ◆
	<b>Kawecki Maciej, Hany Roland, Jenatsch Sandra, Hug Hans J., Bernard Laetitia</b> Sequential Tracking of Ionic Migration in Active Electronic Devices. Francophone ToF-SIMS Conference, Aix-en-Provence, FR, 03-22 to 03-23 ◆
	<b>Kawecki Maciej, Hany Roland, Jenatsch Sandra, Hug Hans J., Bernard Laetitia</b> Sequential Tracking of Ionic Migration in Active Electronic Devices. Francophone ToF-SIMS Conference, Aix-en-Provence, FR, 03-22 to 03-23 ◆
	<b>Kawecki Maciej, Hany Roland, Jenatsch Sandra, Hug Hans J., Bernard Laetitia</b> Sequential tracking of ionic migration in active electronic devices by means of ToF-SIMS. SIMS21 International conference, Krakow, PL, 09-11 to 09-15 ♣
	<b>Kawecki Maciej, Hug Hans J., Vranjkovic Sasa, Bernard Laetitia</b> Development of in-situ Microtome-based measurement approaches for 3D imaging and depth profiling in ToF-SIMS. SIMS21 International conference, Krakow, PL, 09-11 to 09-15 ◆
	<b>Kawecki Maciej, Hug Hans J., Vranjkovic Sasa, Bernard Laetitia</b> Development of in-situ Microtome-based 3-Dimensional Imaging of soft organic material in ToF-SIMS. SIMS Europe conference 2016, Münster, DE, 2016-09-18 to 2016-09-21 ◆
	<b>Kawecki Maciej, Hug Hans J., Vranjkovic Sasa, Bernard Laetitia</b> Development of in-situ Microtome-based measurement approaches for 3D-imaging and depth profiling in ToF-SIMS. 21 <sup>st</sup> International SIMS conference, Krakow, PL, 09-10 to 09-15 ◆
	<b>Kawecki Maciej, Hug Hans J., Vranjkovic Sasa, Bernard Laetitia</b> Microtome-based 3-Dimensional Imaging for ToF-SIMS. Francophone ToF-SIMS meeting, Aix-en-Provence, FR, 11-22 to 11-23 ◆
	<b>Li Jingyi, Wäckerlin Christian, Schnidrig Stephan, Joliat Evelyne, Alberto Roger, Ernst Karl-Heinz</b> Self-assembly and metal coordination of surface-adsorbed Porphyrin molecules. DPG 2017, Dresden, DE, 03-19 to 03-24 ♣
	<b>Li Jingyi, Wäckerlin Christian, Schnidrig Stephan, Joliat Evelyne, Alberto Roger, Ernst Karl-Heinz</b> Metalation and 2D Self-Assembly of Porphyrin Molecules Into Metal-Coordinated Networks on a Cu(111) surface. Empa PhD Symposium 2016, Dübendorf, 2016-11-14 ♣
	<b>Mairena Anaïs, Zoppi Laura, Seibel Johannes, Tröster Alix F., Grenader Konstantin, Parschau Manfred, Terfort Andreas, Ernst Karl-Heinz</b> Heterochiral to homochiral transition in pentahelicene 2D crystallization induced by 2 <sup>nd</sup> layer nucleation. SAOG 2017, Fribourg, 01-27 ♣
	<b>Mairena Anaïs, Zoppi Laura, Seibel Johannes, Tröster Alix F., Grenader Konstantin, Parschau Manfred, Terfort Andreas, Ernst Karl-Heinz</b> Heterochiral to homochiral transition in pentahelicene 2D crystallization induced by 2 <sup>nd</sup> layer nucleation. Gordon Research Seminar, Lucca (Barga), IT, 02-04 to 02-05 ◆
	<b>Mairena Anaïs, Zoppi Laura, Seibel Johannes, Tröster Alix F., Grenader Konstantin, Parschau Manfred, Terfort Andreas, Ernst Karl-Heinz</b> Heterochiral to homochiral transition in pentahelicene 2D crystallization induced by 2 <sup>nd</sup> layer nucleation. Gordon Research Conference, Lucca (Barga), IT, 02-06 to 02-10 ♣
	<b>Mairena Anaïs, Zoppi Laura, Seibel Johannes, Tröster Alix F., Grenader Konstantin, Parschau Manfred, Terfort Andreas, Ernst Karl-Heinz</b> Heterochiral to homochiral transition in pentahelicene 2D crystallization induced by 2 <sup>nd</sup> layer nucleation. DPG 2017, Dresden, DE, 03-19 to 03-24 ♣
	<b>Mairena Anaïs, Zoppi Laura, Seibel Johannes, Tröster Alix F., Grenader Konstantin, Parschau Manfred, Terfort Andreas, Ernst Karl-Heinz</b> Heterochiral to homochiral transition in pentahelicene 2D crystallization induced by 2 <sup>nd</sup> layer nucleation. cd 2017, Rennes, FR, 06-11 to 06-15 ◆
	<b>Mairena Anaïs, Parschau Manfred, Seibel Johannes, Wienke Martin, Zoppi Laura, Wäckerlin Christian, Li Jingyi, Martin Kévin, Avarvari Narcis, Terfort Andreas, Ernst Karl-Heinz</b> Ullmann coupling of helical aromatic hydrocarbons on metal surfaces. Empa PhD symposium 2017, Dübendorf, 11-13 ◆
	<b>Mairena Anaïs, Srivastava Gitika, Ozog Paulina, Li Xiaoshuang, Wang Yan</b> Organizing committee. Empa PhD symposium 2016, Dübendorf, 2016-11-14 ▲
	<b>Mandru Andrada-Oana, Xue Zhao, Johannes Schwenk, Miguel Marioni, Hans J. Hug</b> Nanoscale Coupling Roughness in Exchange-Coupled Double Layers. International Magnetism Conference, Dublin, IE, 04-24 to 04-28 ◆
	<b>Marioni Miguel, Bacani Mirko, Penedo Marcos, Hug Hans J.</b> Structural details of skyrmions and chiral domains in sputtered multilayers. Spin Dynamics in Nanostructures Gordon Research Conference, Les Diablerets, 07-16 to 07-21 ◆
	<b>Marioni Miguel, Bacani Mirko, Penedo Marcos, Schwenk Johannes, Hug Hans J.</b> Dzyaloshinskii-Moriya interaction: skyrmions and nano-scale Halbach effect in multilayers. Spicolost Workshop, Buenos Aires, AR, 10-23 to 11-03 ♣○



**Marioni Miguel, Bacani Mirko, Penedo Marcos, Schwenk Johannes, Zhao Xue, Mandru Andrada O., Hug Hans J.**

Skyrmion spin profiles and supporting Dzyaloshinskii-Moriya interaction by quantitative magnetic force microscopy. SkyMag, Paris, FR, 05-02 to 05-05 🍄

**Marioni Miguel, Bacani Mirko, Schwenk Johannes, Hug Hans J.**

Skyrmion spin profiles and supporting Dzyaloshinskii-Moriya interaction by quantitative magnetic force microscopy. InterMag 2017, Dublin, IE, 04-24 to 04-28 🍄

**Marioni Miguel, Falub Claudiu, Rohrmann Hartmut, Hida R., Michel J., Meduna M., Zweck Joseph, Morin C., Sibuet H, Richter J.H., Bless M., Padrun Marco**

Structural and ferromagnetic resonance study of sputtered FeCoB-based soft magnetic multilayers. InterMag 2017, Dublin, IE, 04-24 to 04-28 🍄

**Marioni Miguel, Zhao Xue, Mandru Andrada O., Penedo Marcos, Schwenk Johannes, Hug Hans J.**

Magnetization reversal in weakly and strongly exchange-coupled Co, Pt-based systems. Spicolost Workshop, Buenos Aires, AR, 10-23 to 11-03 🍄 ○

**Mathis Trant, Fischer Maria, Thorwarth Kerstin, Patscheider Jörg, Hug Hans Josef**

Tunable ion flux density and its impact on AlN thin films deposited in a confocal DC Magnetron Sputtering System. XXIV. Erfahrungsaustausch Oberflächentechnologie mit Plasma- und Ionenstrahlprozessen, Mühlleithen, DE, 03-07 to 03-09 🍄

**Penedo Marcos, Bacani Mirko, Schwenk Johannes, Zhao Xue, Mandru Andra Oana, Marioni Miguel A., Hans Josef Hug**

Nanoscale Mallison-Halbach Effect based on Thin Film Multilayers with interfacial DMI. Sol-Skymag, San Sebastian, ES, 06-19 to 06-23 🍄

**Penedo Marcos, Hug Hans Josef**

Off-resonance intermittent contact mode AFM using multiple harmonics. MRS Fall Meeting, Boston, US, 11-27 to 12-01 🍄

**Penedo Marcos, Hug Hans Josef**

Off-resonance intermittent contact mode AFM using multiple harmonics. MRS, Boston, US, 11-27 to 12-01 🍄

**Rieger Alexandra, Ernst, Karl-Heinz**

Comparison of Tartaric Acid Diastereomers on Cu(111) in UHV. PhD Symposium 2016, Empa Dübendorf, 2016-11-04 🍀

**Rieger Alexandra, Wäckerlin, Christian Ernst, Karl-Heinz**

Surface Explosion of Tartaric Acid Diastereomers on a Cu(111) surface in UHV. DPG 2017, Dresden, DE, 03-19 to 03-24 🍄

**Scholder Olivier, Bernard Laetitia, Hug Hans J.**

The route towards nm-scale resolution with a combination of ToF-SIMS and Scanning Probe Microscopy. Réunion Francophone des Utilisateurs ToF-SIMS, Fuveau, FR, 03-22 to 03-23 🍀

**Scholder Olivier, Hug Hans J., Bernard Laetitia**

A python library to handle ToF-SIMS data. SIMS21 International conference, Krakow, PL, 09-11 to 09-15 🍀

**Scholder Olivier, Penedo Marcos, Hug Hans J., Bernard Laetitia**

The route towards nm-scale resolution with a combination of ToF-SIMS and Scanning Probe Microscopy. SIMS21 International conference, Krakow, PL, 09-11 to 09-15 🍄

**Srivastava Gitika**

Empa PhD symposium 2016, Empa Dübendorf, 2016-11-14 ■

**Srivastava Gitika, Kudernac Tibor, Parschau Manfred, Stacko Peter, Ito Natsuki, Hirose Takashi, Matsuda Kenji, Feringa Bernard Lucas, Ernst Karl-Heinz**

Single molecule manipulation via inelastic electron tunneling. SAOG 2017, Université de Fribourg, Fribourg, 01-27 to 10-27 🍀

**Srivastava Gitika, Kudernac Tibor, Parschau Manfred, Stacko Peter, Ito Natsuki, Hirose Takashi, Matsuda Kenji, Feringa Bernard Lucas, Ernst Karl-Heinz**

Single molecule manipulation via inelastic electron tunneling. DPG 2017, Dresden, DE, 03-19 to 03-24 🍄

**Thorwarth Kerstin**

Session D1: Surface Coatings and Surface Modifications in Biological Environments. International Conference on Metallurgical Coatings and Thin Films, San Diego, US, 04-24 to 04-28 ▲

**Thorwarth Kerstin**

Coatings for biomedical applications: Needs and Challenges in orthopaedics and surgical instruments. Asian European Plasma Surface Engineering, Jeju Island, KR, 09-11 to 10-14 🍄 ○

**Thorwarth Kerstin**

Session S9 Plasma Biomedicine and Life Science. Asian European Plasma Surface Engineering, Jeju Island, KR, 09-11 to 10-14 ▲

**Thorwarth Kerstin, Fischer Maria, Hug Hans Josef**

Advanced Coatings at Empa and their Benefit for the Treatment of Glass. Huawei architecture workshop, Helsinki, FI, 06-19 to 06-21 🍄 ○

**Thorwarth Kerstin, Thorwarth Götz**

Studium und dann? Akademisch oder in die Industrie. Physikalischen Kolloquium, Paderborn, DE, 10-19 🍄 ○



Nanoscale Materials Science	<b>Thorwarth Kerstin, Thorwarth Götz, Jin Subong, Gauter Sven, Patscheider Jörg</b> Challenges for Polymeric Orthopedic Implants Enhanced Surface Functionalities using coatings deposited by HiPIMS. International Conference on Metallurgical Coatings and Thin Films, San Diego, US, 04-24 to 04-28 ♣
	<b>Thorwarth Kerstin, Thorwarth Götz, Müller Ueli, Hauert Roland</b> Sensitivity of interfaces to contamination: DLC coatings on medical alloys. EMRS, Strassbourg, FR, 05-22 to 05-26 ♣ ○
	<b>Trant Mathis, Fischer Maria, Thorwarth Kerstin, Patscheider Jörg, Hug Hans Josef</b> Tunable Low Energy Ion Bombardment and its Influence on AlN Thin Films. Deposited in Confocal DC Magnetron Sputtering. 44 <sup>th</sup> International Conference on Metallurgical Coatings and Thin Films., San Diego, US, 04-24 to 04-28 ♣
	<b>Vranjkovic Sasa, Kawecki Maciej, Hug Hans J., Bernard Laetitia</b> Microtome-based 3-Dimensional imaging for TOF-SIMS. Réunion Francophone des Utilisateurs ToF-SIMS, Fuveau, FR, 03-22 to 03-23 ◆
	<b>Wäckerlin Christian, Li Jingyi, Mairena Anaïs, Martin Kévin, Avarvari Narcis, Ernst Karl-Heinz,</b> Diastereoselective Ullmann Coupling of 2-Bromo[4]helicenes on Cu(100). 33 <sup>rd</sup> Annual Meeting of the Swiss Working Group for Surface and Interface Science, Freiburg, 01-17 ◆
	<b>Wäckerlin Christian, Li Jingyi, Mairena Anaïs, Martin Kévin, Avarvari Narcis, Ernst Karl-Heinz,</b> Diastereoselective Ullmann Coupling of Surface-Adsorbed Helicenes. Symposium on Surface Science 2017 (3S'17), St. Moritz, 03-05 to 03-10 ♣
	<b>Wäckerlin Christian, Li Jingyi, Mairena Anaïs, Martin Kévin, Avarvari Narcis, Ernst Karl-Heinz,</b> Surface-Assisted Diastereoselective Ullmann Coupling of Helicenes. DPG-Frühjahrstagung, Dresden, DE, 03-19 to 10-24 ♣
	<b>Wäckerlin Christian, Wäckerlin Aneliia, Fatayer Shadi, Nijs Thomas, Nowkowska Sylwia, Mousavi S. Fatemeh, Popova Olha, Ahsan Aisha, Jung Thomas A.,</b> Unsubstituted phthalocyanines sort into chessboard assemblies by their transition metal centers. DPG-Frühjahrstagung, Dresden, DE, 03-19 to 10-24 ♣
	<b>Zhao Xue, Mandru Andrada O., Marioni Miguel A., Hug Hans J.</b> Reversal mechanisms in a (Co, Pt) <sub>n</sub> multilayer by strong interfacial exchange coupling to a ferrimagnetic thin film TbFe. 2017 Dach meeting, Vienna, AT, 06-15 ♣
	<b>Zhao Xue, Mandru Andrada O., Marioni Miguel A., Hug Hans J.</b> Magnetization reversal mechanism in strongly exchange-coupled double layers of (Co, Pt) <sub>n</sub> and TbFe. Empa PhD seminar, Empa, 09-26 ♣
<b>Zhao Xue, Mandru Andrada O., Marioni Miguel A., Hug Hans J.</b> Magnetization reversal mechanism in strongly exchange-coupled double layers of (Co, Pt) <sub>n</sub> and TbFe. 2017 MMM Conference, Pittsburgh, US, 11-06 to 11-10 ♣	
<b>Zhao Xue, Mandru Andrada O., Marioni Miguel A., Hug Hans J.</b> Magnetization reversal mechanism in strongly exchange-coupled double layers of Co, Pt and TbFe. Visiting Dr. Joseph A. Stroscio (NIST Fellow), NIST (Gaithersburg), US, 11-14 ♣ ○	
Particles-Biology Interactions	<b>Aengenheister Leonie</b> Improving translocation studies at the human placental barrier -an advanced in vitro co-culture model-. PhD Seminar Empa, St.Gallen, 06-30 ♣
	<b>Aengenheister Leonie</b> NanoUmwelt- neue Ergebnisse. Zwischenmeeting Projekt NanoUmwelt, Karlsruhe, DE, 05-03 ♣
	<b>Aengenheister Leonie</b> Investigation of size and surface modification dependent uptake and translocation of gold nanoparticles across the human placenta using in vitro and ex vivo approaches. 10 <sup>th</sup> European Placenta Perfusion Workshop, St.Gallen, 05-30 to 05-31 ♣
	<b>Aengenheister Leonie</b> Organisation and Chair of. 10 <sup>th</sup> European Placenta Perfusion Workshop, St.Gallen, 05-30 to 05-31 ■
	<b>Aengenheister Leonie</b> Investigation of placental uptake, penetration and translocation of gold nanoparticles using human in vitro and ex vivo models. Bioactive compounds Retreat, Stoos, 06-01 to 06-02 ♣
	<b>Aengenheister Leonie</b> NanoUmwelt- neue Ergebnisse-. Abschlussmeeting vom Projekt NanoUmwelt (36 Monate), Buchloe, DE, 09-18 to 09-19 ♣
	<b>Aengenheister Leonie, Manser, P., Wichser, A., Wick, P., Buerki-Thurnherr, T.</b> Investigation of surface modification dependent translocation of gold nanoparticles across the human placenta using in vitro and ex vivo approaches. CLINAM 2017, Basel, 05-07 to 05-10 ◆
	<b>Aengenheister Leonie, Manser, P., Wichser, A., Wick, P., Buerki-Thurnherr, T.</b> Investigation of surface modification dependent translocation of gold nanoparticles across the human placenta using in vitro and ex vivo approaches. CLINAM 2017, Basel, 05-07 to 05-10 ♣
	<b>Aengenheister Leonie, Muoth, C., Wichser, A., Manser, P., Diener, L., Wick, P., Buerki Thurnherr, T.</b> Investigation of surface modification dependent uptake, accumulation and translocation of gold nanoparticles across the human placenta using novel advanced in vitro models.. Swiss Society of Toxicology – Annual Meeting 2017, Basel, 11-30 to 12-01 ♣

<p><b>Aengenheister Leonie, Muoth, C., Wichser, A., Manser, P., Diener, L., Wick, P., Buerki Thurnherr, T.</b> Investigation of surface modification dependent uptake, accumulation and translocation of gold nanoparticles across the human placenta using novel advanced in vitro models. Swiss Society of Toxicology – Annual Meeting 2017, Basel, 11-30 to 12-01 ◆</p>
<p><b>Aengenheister Leonie, Schönenberger, R., Diener, L., Manser, P., Wichser, A., Wick, P., Bürki-Thurnherr, T.</b> A novel advanced placental in vitro model to study small molecule and nanoparticle translocation. PhD Symposium, Empa, Dübendorf, 11-13 ◆</p>
<p><b>Bohmer Nils</b> Nanosicherheitsforschung für verantwortungsvollen Umgang mit Nanomaterialien am Arbeitsplatz. Swiss Safety 2017: Arbeitssicherheit – vorbeugen oder nachsehen?, Zürich, 03-29 ♣ ○</p>
<p><b>Bohmer Nils, Hirsch, C, Kwak, MJ, Heo, MB, Song, NW, Krug, HF, Wick, P</b> Interferences of Nanoparticles: How to Implement Flow Cytometry as a Viable Tool for the Assessment of Nanoparticles in vitro in Early Product Development. EuroNanoForum 2017, Valetta, MT, 06-21 to 06-23 ◆</p>
<p><b>Buerki-Thurnherr Tina, Buerki-Thurnherr T., Muoth C., Großgarten M., Karst U., Manser P. Diener L., Kucki M., Wichser A., Jochum W., Wick P.</b> A novel organotypic 3D microtissue model to assess nanoparticle uptake and effects at the human placental barrier. CLINAM, Basel, 05-07 to 05-10 ◆</p>
<p><b>Buerki-Thurnherr Tina, Buerki-Thurnherr T., Muoth C., Manser P., Kucki M., Wichser A., Diener L., Monopoli M., Correia M., Ehrlich N., Loeschner K., Gallud A., Jochum W., Wick P.</b> A 3D HUMAN CO-CULTURE MICROTISSUE MODEL FOR NANOPARTICLE EFFECT AND UPTAKE STUDIES AT THE PLACENTAL BARRIER. New Tools and Approaches for Nanomaterials Safety Assessment , Malaga, ES, 02-07 to 02-09 ♣</p>
<p><b>Buerki-Thurnherr Tina, Muoth, C., Aengenheister, L., Grossgarten, M., Karst, U., Manser, P., Diener, L., Kucki, M., Wichser, A., Jochum W., Wick, P.</b> Synergistic use of ex vivo and in vitro placenta model systems to study various aspects of nanomaterial behaviour at the placental barrier. Seminar at the Nanomedicine lab, University of Manchester, Manchester, GB, 08-30 ♣ ○</p>
<p><b>Buerki-Thurnherr Tina, Muoth, C., Aengenheister, L., Grossgarten, M., Karst, U., Manser, P., Diener, L., Kucki, M., Wichser, A., Jochum W., Wick, P.</b> Synergistic use of ex vivo and in vitro placenta model systems to study various aspects of nanomaterial behaviour at the placental barrier. IFPA International Federation of Placenta Associations, Manchester, GB, 08-30 to 09-02 ♣</p>
<p><b>Buerki-Thurnherr Tina, Vidmar J., Loeschner K., Correia M., Larsen E., Manser P., Wichser A., BoodhiaK., Al-Ahmady Z.S., Ruiz J., Astruc D., Buerki-Thurnherr T.</b> Organisation. 10<sup>th</sup> European Placenta Perfusion Workshop, St.Gallen, 05-30 to 05-31 ■</p>
<p><b>Buerki-Thurnherr Tina, Vidmar J., Loeschner K., Correia M., Larsen E., Manser P., Wichser A., BoodhiaK., Al-Ahmady Z.S., Ruiz J., Astruc D., Buerki-Thurnherr T.</b> Silver nanoparticle translocation in the ex vivo human placental perfusion model to pre-dict potential fetal exposure . 10<sup>th</sup> European Placenta Perfusion Workshop, St.Gallen, 05-30 to 05-31 ♣ ○</p>
<p><b>Cassano Juan Carlos</b> 4D Lifetank™: A highly accurate high throughput comet assay platform. International Comet assay Workshop 2017, University of Navarra, Pamplona, ES, 08-29 to 08-31 ♣</p>
<p><b>Cassano Juan Carlos, Cordula Hirsch, Oliver Schicht, Peter Wick</b> 4D Lifetest: A highly accurate high throughput comet assay platform. SOT 2017, Baltimore, US, 03-12 to 03-16 ◆ ○</p>
<p><b>Chortarea Savvina</b> Toxic effects from nanoparticles: Limits and gaps in the assessment. 'How suitable is LCA for Nanotechnology assessment?' LCA Discussion Forum, ETH Zurich, 05-24 ♣</p>
<p><b>Chortarea Savvina</b> Graphene@biological barriers. Graphene Flagship Meeting, Delft, NL, 11-02 to 11-03 ♣ ○</p>
<p><b>Chortarea Savvina, Korejwo, D., Netkueakul, W., Burki, T., Wang, J., Wick, P.</b> Interaction of graphene-related materials and abraded materials from reinforced nanocomposites with in vitro lung models . Swiss Aerosol Group meeting, Bern, 11-13 ♣</p>
<p><b>Hempt Claudia</b> Advanced in vitro intestine model – assessing the impact of nanostructured materials on the gut. Evonik Meeting, Hanau, DE, 02-13 ♣ ○</p>
<p><b>Hempt Claudia</b> Advanced in vitro intestine model – assessing the impact of nanostructured materials on the gut. SUK Retreat, Stoops, 06-01 to 06-02 ♣</p>
<p><b>Hempt Claudia</b> Advanced in vitro intestine model – assessing the impact of nanostructured materials on the gut. Evonik Meeting, St.Gallen, 08-17 ♣ ○</p>
<p><b>Hempt Claudia</b> Organisation Projektmeeting. Evonik Projekttreffen, st.Gallen, 08-17 ■</p>

<b>Particles-Biology Interactions</b>	<b>Hempt Claudia</b> Advanced in vitro intestine model – assessing the impact of nanostructured materials on the gut. CCMX Nanoscreen annual meeting, Dübendorf, 10-05 🍄 ○
	<b>Hempt Claudia, Claudia Hempt, Cordula Hirsch, Melanie Kucki, Peter Wick, Tina Buerki-Thurnherr</b> Advanced in vitro intestine model – assessing the impact of nanostructured materials on the gut. CCMX annual meeting 2017, Dübendorf, 10-05 ◆
	<b>Hempt Claudia, Cordula Hirsch, Jean Pierre Kaiser, Alexandra Rippl, Peter Wick, Tina Buerki-Thurnherr</b> Gut in a dish. PhD Symposium Empa, Dübendorf, 11-13 ◆
	<b>Hempt Claudia, Cordula Hirsch, Jean Pierre Kaiser, Alexandra Rippl, Peter Wick, Tina Buerki-Thurnherr</b> Advanced in vitro intestine model – assessing the impact of nanostructured materials on the gut. Annual Meeting 2017 of the Swiss Society of Toxicology, Basel, 11-30 to 12-01 ◆
	<b>Herrmann Inge</b> Particles in Medicine – From Soft Tissue Calcification to Magnetic Blood Purification. Klinisches Forschungsseminar KSSG, St.Gallen, 05-17 🍄 ○
	<b>Herrmann Inge</b> Exploring the characteristics, the origin and the implications of soft tissue calcification. 10 <sup>th</sup> European Placental Perfusion Workshop, St.Gallen, 05-30 to 05-31 🍄 ○
	<b>Herrmann Inge Katrin</b> From Concept to Clinics: Magnetic Blood Purification. European Nanomedicine Meeting, London, GB, 04-03 to 04-04 🍄 ○
	<b>Herrmann Inge Katrin</b> Personalized Medicine & Cancer: the Enabling Role of Nanotechnology. CLINAM, Basel, 05-07 to 05-10 🍄 ○
	<b>Herrmann Inge Katrin</b> Multiscale Bioimaging. Seminar ARTORG, Bern, 08-10 🍄 ○
	<b>Herrmann Inge Katrin</b> Nanoglue: Bioactive Surgical Tissue Adhesives. Seminar A0 Foundatin, Davos, 08-28 🍄 ○
	<b>Herrmann Inge Katrin</b> Medical Imaging across Scale: The Importance of the Ultrastructure and its Context. Laser Seminar, ETH Zurich, D-PHYS, Zurich, 11-20 🍄 ○
	<b>Hirsch Cordula</b> Organisation of Meeting. CCMX Challenge NanoScreen annual Meeting, Dübendorf, 10-05 ■
	<b>Hirsch Cordula</b> Nanosafety research: a methodological perspective. 2 <sup>nd</sup> Joint Symposium on Nanotechnology, Hannover, DE, 04-06 to 2016-04-07 🍄 ○
	<b>Hirsch Cordula, Buerki, T., Wick, P., Grafmueller, S., Muoth C., Aengenheister, L., Manser, P.</b> Benefits and Risks: nanomaterials at the human placental barrier. Joint Annual Meeting of the Swiss Society of Allergy and Immunology and the Swiss Society of Paediatrics, St.Gallen, 06-01 to 06-02 🍄 ○
	<b>Hirsch Cordula, Roesslein, M., Bohmer, N., Wick, P.</b> Understanding nanosafety – the importance of assay performance in vitro. Nanosafety 2017, Saarbrücken, DE, 10-11 to 10-13 🍄
	<b>Keevend Kerda, Galli, M.; Herrmann, I.K.</b> Magnetic Clusters for Pathogen Removal . Magnetic Fun Meeting, Regensburg, DE, 2016-11-20 to 2016-11-22 🍄
	<b>Keevend Kerda, Stiefel, M. ; Herrmann, I. K.</b> Tb3+-doped nanoparticles for correlative cathodoluminescence electron microscopy bioimaging. CLINAM 2017, Basel, 05-07 to 05-10 ◆
	<b>Keevend Kerda, Stiefel, M. ; Neuer, A.; Matter, M.T.; Neels, A.; Bertazzo, S.; Herrmann, I. K.</b> Correlative Bioimaging: from Light to Electron Microscopy, from 2D to 3D. Imaging and Image Analysis VIII, Dübendorf, 04-04 🍄 ○
	<b>Keevend Kerda, Stiefel, M. ; Neuer, A.; Matter, M.T.; Neels, A.; Bertazzo, S.; Herrmann, I. K.</b> Tb3+-doped nanocrystals for correlative cathodoluminescence electron microscopy bioimaging . 5 <sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials, Lisbon, PT, 03-05 to 03-11 🍄
	<b>Keevend Kerda, Stiefel, M., Puust, L., Kurvits, K., Starsich, F., Grange, R., Herrmann, I.</b> Cathodoluminescence bioimaging: Stability of luminescent nanocrystals under electron beam. PhD Symposium, Dübendorf, 11-13 🍄
	<b>Korejwo Daria</b> Interaction of graphene related materials and abraded materials from reinforced nanocomposites with in vitro lung models . PhD Seminar , Dübendorf, 09-26 🍄
	<b>Korejwo Daria, Chortarea, S.</b> Graphene @ lung. Progress meeting graphene @ lung, Dübendorf, 10-23 🍄
	<b>Korejwo Daria, Wick, P., Buerki-Thurnherr, T.</b> Interaction of graphene related materials and abraded materials from reinforced nanocomposites with in vitro lung models. PhD Symposium, Dübendorf, 11-13 🍄

<b>Particles-Biology Interactions</b>	<b>Korejwo Daria, Wick, P., Buerki-Thurnherr, T., Chortarea, S.</b> Interaction of graphene related materials and abraded materials from reinforced nanocomposites with in vitro lung models. Friday Meeting, Guest Speaker Invitation, ARTORG Center, Bern, 12-15 🍄 ○
	<b>Matter Martin, Starsich, F., Schlegel, A.A., Pratsinis, S.E., Herrmann, I.K.</b> Nanoglue: Bioactive fumed nanoparticles for tissue gluing. 5 <sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials, Lisbon, PT, 03-06 to 03-10 🍄
	<b>Matter Martin, Fabian Starsich, Andrea A. Schlegel, Sotiris E. Pratsinis, Inge K. Herrmann</b> Nanoglue: Bioactive flame-made nanoparticles for tissue gluing. Schweizerischer Chirurgetkongress 2017, Bern, 05-31 to 06-02 🍄
	<b>Matter Martin, Fabian Starsich, Andrea A. Schlegel, Sotiris E. Pratsinis, Inge K. Herrmann</b> Nanoglue: Tailoring the bioactivity of flame-made nanoparticles for surgical applications. GRC on Nano-Mechanical Interfaces, Hong Kong, CN, 07-30 to 08-04 ◆
	<b>Matter Martin, Fabian Starsich, Andrea A. Schlegel, Sotiris E. Pratsinis, Inge K. Herrmann</b> Nanoglue: Tailoring the bioactivity of flame-made nanoparticles for surgical applications. Empa PhD Symposium 2017, Dübendorf, 11-13 🍄
	<b>Matter Martin, Fabian Starsich, Andrea A. Schlegel, Sotiris E. Pratsinis, Inge K. Herrmann</b> Developing a Tissue Glue by Engineering Adhesion and Bioactivity of Metal Oxide Nanoparticles. 2017 MRS Fall Meeting & Exhibit, Boston, US, 11-27 to 12-01 🍄
	<b>May Sarah</b> Genotoxicity and DNA Repair. CCMX Challenge NanoScreen annual meeting, Dübendorf, 10-05 🍄 ○
	<b>May Sarah</b> Investigating the influence of gold nanoparticles on human cells and their DNA – the “building blocks of life”. PhD Symposium, Dübendorf, 11-13 ◆
	<b>May Sarah</b> Investigating the influence of gold nanoparticles on human cells and their DNA. Swiss Society of Toxicology, Annual Meeting, Basel, 11-30 to 12-01 ◆
	<b>Wick Peter</b> Safety research for a responsible use of nanomaterials. Cambridge Graphene Center, Talk, Cambridge, GB, 01-13 🍄 ○
	<b>Wick Peter</b> Assessment of the effectiveness and environmental risk of nanocopper-based Wood preservatives. New Tools and approaches for nanomaterial safety assessment, Malaga, ES, 02-07 to 02-09 🍄 ○
	<b>Wick Peter</b> Tracking immune related cell Responses to drug delivery microparticles in 3D dense Collagen matrix. 8 <sup>th</sup> int. congress of nanotechnology in Medicine and Biology, Krems, AT, 03-20 to 03-22 🍄 ○
	<b>Wick Peter</b> Data quality: biological characterization of nanomaterials in vitro. NanoReg: Innovation und Regulierung für die sichere Anwendung von Nanomaterialien, Bern, 04-03 🍄 ○
	<b>Wick Peter</b> Safety aspects of nanoscaled materials. Joint AIST-Empa Workshop on Low-Dimensional Nanomaterials: Synthesis, Characterization and Application, Dübendorf, 05-30 to 06-01 🍄 ○
	<b>Wick Peter</b> Laboratory for Particles-Biology Interactions: Departement Info. Swiss Nano Convention, Fribourg, 06-01 to 06-02 🍄 ○
<b>Wick Peter</b> Nanotechnology in Medicine: Introduction and Safety Aspects. Seminar Kantonsspital Aarau, Aarau, 06-12 🍄 ○	
<b>Wick Peter</b> Nanoparticle-cell interactions: What can we learn form single cell analysis?. KRIS international Workshop on Nanosafety, Daejeon, KR, 07-10 to 07-12 🍄 ○	
<b>Wick Peter</b> Safety research for a responsible use of nanomaterials. NANO KOREA 2017 Symposium, Seoul, KR, 07-12 to 07-14 🍄 ○	
<b>Wick Peter</b> Safety Research for Responsible Use of Nanoparticles. CCMX-MARVEL Materials Day, Annual Meeting CCMX, Dübendorf, 10-05 🍄 ○	
<b>Transport at Nanoscale Interfaces</b>	<b>Braun Oliver, Thodkar Kishan, Overbeck Jan, De Luca Marta, Schönenberger Christian, Zardo Iliara, Calame Michel</b> Thermoelectric Effects in Nanoscale Devices. Empa PhD Symposium Materials Meet Life, St. Gallen, 06-30 🍄
	<b>Braun Oliver, Thodkar Kishan, El Abbassi Maria, Schönenberger Christian, Calame Michel</b> Thermoelectric Effects in Graphene. Empa Departement Meeting Materials Meet Life, St. Gallen, 07-05 ◆
	<b>Calame Michel</b> Nanoscale hybrid electronic systems. MOLESCO 3 <sup>rd</sup> Annual meeting Granada, Granada, ES, 01-17 to 01-21 ■ ○

<b>Transport at Nanoscale Interfaces</b>	<b>Calame Michel</b> Does molecular electronics compute ?. Winter school of the Swiss Nanoscience Institute, Hotel Schwarzsee, Zermatt, 01-25 to 01-27 ■
	<b>Calame Michel</b> High quality graphene for metrology. Swiss Nanoconvention 2017, Fribourg, 06-01 to 06-02 ♣ ○
	<b>Calame Michel</b> A silicon-based platform for biochemical sensing. Seminar, Ångström Laboratory, Uppsala University, SE-, SE, 06-08 ♣ ○
	<b>Calame Michel</b> High Yield Molecular Junctions and Formation Dynamics Insights. 9 <sup>th</sup> International Conference on Materials for Advanced Technologies – ICMAT 2017, Suntec Intern. Convention & Exhibition Center, SG, 06-18 to 06-23 ♣ ○
	<b>Calame Michel</b> On-chip monitoring of ions, proteins and bacteria. Seminar, Institute for Biomolecular Engineering, ETH Zürich, 11-07 ♣ ○
	<b>Calame Michel, El Abbassi Maria, Calame Michel</b> Detailed characterization of graphene based molecular devices. Last Molesco Meeting, Muggendorf, DE, 09-24 to 09-27 ♣
	<b>Calame Michel, El Abbassi Maria, Posa Laszlo, Makk Peter, Halbritter Andras, Calame Michel</b> Electrical Breakdown of monolayer graphene: Substrate and Environment effects . ECME 2017, DRESDEN, DE, 08-29 to 09-02 ♣
	<b>Grossmann Günter</b> 20 Jahre Surface Mount Technology. Europäisches Elektro-Kolleg, Colonia San Jordi, ES, 03-21 to 03-24 ♣ ○
	<b>Hack Erwin</b> Member of Scientific Committee. Photomechanics 2018, Toulouse, FR, 2018-03-20 to 2018-03-22 ■
	<b>Hack Erwin, Valzania Lorenzo, Zolliker Peter</b> Topography of hidden objects revealed using THz digital holography. 12 <sup>th</sup> International Conference on Advances in Experimental Mechanics, Sheffield, GB, 08-29 to 08-31 ♣
	<b>Jacob Peter</b> Early-Life-Ausfälle in der Automotive-Elektronik und deren Ursachen (Tutorial). SMT-Hybrid Nürnberg 2017, Nürnberg, DE, 05-16 to 05-17 ♣ ○
	<b>Jacob Peter</b> 1. Hall-Sensoren: Schwierige Umgebungsbedingungen – aussergewöhnliche Ausfälle 2. Schadhafte Elektronik in Magnetspulen – eine überraschende Ausfallursache. VDE-ITG Grainau, Grainau, DE, 05-23 to 05-24 ♣ ○
	<b>Jacob Peter</b> ESD, EOS und EMI: Early Life Ausfälle in der Autoelektronik und ihre Hintergründe. ESD Forum München, München, DE, 10-23 to 10-25 ♣ ○
	<b>Jacob Peter, Furrer Roman</b> A very unusual transistor failure, caused by a solenoid. ESREF 2017 European Symposium on Reliability of Electron Devices Failure Physics and Analysis, Bordeaux, FR, 09-25 to 09-28 ◆
	<b>Jacob Peter, Thiemann Uwe</b> RFID Smart Cards: ESD-Herausforderungen bei der Chipkartenfertigung (Jacob, Thiemann). VDE-ITG Grainau, Grainau, DE, 05-23 to 05-24 ♣ ○
	<b>Jacob Peter, Thiemann Uwe</b> New ESD Challenges in RFID Manufacturing. ESREF 2017 European Symposium on Reliability of Electron Devices Failure Physics and Analysis, Bordeaux, FR, 09-25 to 09-28 ♣
	<b>Jacob Peter, Thiemann Uwe, Weber Johannes, Gieser Horst</b> Charge, discharge effects and ESD prevention at the example of RFID smart card manufacturing. ESD Forum München, München, DE, 10-23 to 10-25 ♣ ○
	<b>Jeurgens Lars, Rheingans Bastian, Neuenschwander Jürg, Furrer Roman, Schumacher A, Knappmann S, Janczak-Rusch Jolanta</b> Effect of heat evolution on microstructure and joint performance upon soldering with reactive nano-multilayers. IIW Annual Assembly and International Conference, Shanghai, CN, 06-25 to 06-30 ♣
	<b>Mermoud Yves, Synhaivska Olena, Baghernejad Masoud, Wipf Mathias, Fanget Axel, Stoop Ralph L., Bedner Kristine, Christian Schönenberger, Calame Michel</b> ISFET Biosensing for Molecular Systems and Factories Monitoring. NCCR MSE Fellow Retreat 2017, Grindelwald, 05-03 to 05-05 ◆
	<b>Mermoud Yves, Synhaivska Olena, Baghernejad Masoud, Wipf Mathias, Fanget Axel, Stoop Ralph L., Bedner Kristine, Christian Schönenberger, Calame Michel</b> ISFET Biosensing for Molecular Systems and Factories Monitoring. NCCR MSE Site Visit 2017, Basel, 06-22 ◆
	<b>Mermoud Yves, Synhaivska Olena, Baghernejad Masoud, Wipf Mathias, Calame Michel</b> An Extended Gate Field-Effect Transistor Biosensor for Membrane Transport Monitoring. Tätigkeiten der Abteilungen, Empa St. Gallen, 07-05 ◆
	<b>Mermoud Yves, Synhaivska Olena, Baghernejad Masoud, Wipf Mathias, Sahana Sarkar, Calame Michel</b> Design of an Extended Gate Field-Effect Transistor Biosensor for Membrane Transport Monitoring. International Conference on Molecular Systems Engineering, Basel, 08-26 to 08-29 ◆



<b>Transport at Nanoscale Interfaces</b>	<b>Mermoud Yves, Synhaivska Olena, Baghernejad Masoud, Wipf Mathias, Sahana Sarkar, Calame Michel</b> Design of an Extended Gate Field-Effect Transistor Biosensor for Lab-on-a-Chip Applications. Eurosenors 2017, Paris, FR, 09-03 to 09-06 ◆	
	<b>Overbeck Jan</b> Optoelectronic Properties of Graphene under Strain. Annual Meeting Swiss Nanoscience Institut, Lenzerheide, 09-07 to 09-08 🍄	
	<b>Overbeck Jan, Braun Oliver, Wang Lujun, Makk Peter, Schönenberger Christian, Calame Michel</b> Raman Signatures of Uniaxial Strain in Suspended Graphene. International Conference on Materials for Advanced Technologies (ICMAT), Singapore, SG, 06-19 to 06-23 ◆	
	<b>Overbeck Jan, Neumann Svenja, Hoffmann Victor, Marti David, Wenger Oliver S., Mayor Marcel, Calame Michel</b> Investigation of Electron Transport in Molecular and Optoelectronic Nanojunctions. SNI Winterschool 2017, Zermatt, 01-25 to 01-27 ◆	
	<b>Synhaivska Olena, Mermoud Yves, Baghernejad Masoud, Wipf Mathias, Calame Michel</b> Silicon Nanowire ISFET Sensors for Biochemical Sensing Applications. Tätigkeiten der Abteilungen, Empa St. Gallen, 07-05 ◆	
	<b>Synhaivska Olena, Mermoud Yves, Baghernejad Masoud, Wipf Mathias, Calame Michel</b> Cu ion detection realized with silicon nanowire ion-sensitive field effect transistor based biosensor. 7 <sup>th</sup> Euro Biosensors and Bioelectronics Conference, Berlin, DE, 07-10 to 07-11 ◆	
	<b>Synhaivska Olena, Mermoud Yves, Baghernejad Masoud, Wipf Mathias, Fanget Axel, Stoop Ralph L., Bedner Kristine, Christian Schönenberger, Calame Michel</b> Silicon Nanowire ISFET Sensors for Biochemical Sensing Applications. Swiss NanoConvention 2017, Fribourg, 06-01 to 06-02 ◆	
	<b>Valzania Lorenzo, Zolliker Peter, Hack Erwin</b> Towards the assessment of biomechanical interfaces: Topography of hidden objects obtained with THz holography. 42 <sup>nd</sup> International Conference on Infrared, Millimeter and Terahertz Waves IRMMW-THz 2017, Cancún, MX, 08-27 to 09-01 🍄	
	<b>Mobility, Energy and Environment</b>	
	<b>Acoustics/Noise Control</b>	<b>Bertsch Lothar, Schäffer Beat, Guérin Sebastien</b> Towards an uncertainty analysis for parametric aircraft system noise prediction. 12 <sup>th</sup> International Congress on Noise as a Public Health Problem, Zurich, 06-22 to 07-26 🍄
<b>Brink Mark, Schäffer Beat, Pieren Reto, Wunderli Jean Marc</b> Empirical estimation of conversion terms between the noise metrics LDay, LNight, Ldn, and Lden. 46 <sup>th</sup> international congress and exposition on noise control engineering INTER-NOISE 2017, Hong Kong, HK, 08-27 to 08-30 🍄		
<b>Brink Mark, Speiser Martina, Basner Mathias, Eggenschwiler Kurt, Janssen Sabine, Cossy-Gantner Aline, Strobel Markus, Gianola Corinne</b> 12 <sup>th</sup> IC BEN Congress on Noise as a Public Health Problem, Zürich, 06-18 to 06-22 ■		
<b>Bütikofer Rudolf, Eggenschwiler Kurt, Steiner Edith</b> Annoying low level sound. 12 <sup>th</sup> IC BEN Congress on Noise as a Public Health Problem, Zurich, 06-18 to 06-22 🍄		
<b>Delpero Tommaso, HannemaGwenaël, Schoenwald Stefan, Zemp Armin, Bergamini Andrea, Van Damme Bart</b> Low frequency bandgaps in lightweight metamaterial Panels using rotation inertia multiplication. Acoustics '17 - Joint Meeting of the Acoustical Society of America and the European Acoustics Association, Boston, US, 06-25 to 06-29 🍄		
<b>Eggenschwiler Kurt, Hohmann Beat, Kuhn-Rahloff Clemens, Gianola Corinne</b> "Lärmwirkungen" - Herbsttagung der Schweizerischen Gesellschaft für Akustik SGA-SSA, Solothurn, 11-09 to 11-10 ■		
<b>Foraster Maria, Eze Ikenna C., Vienneau Danielle, Brink Mark, Cajochen Christian, Héritier Harris, Imboden Medea, Jeong Ayoung, Rudzik Franziska, Thiesse Laurie, Pieren Reto, Schaffner Emmanuel, Wunderli Jean Marc, Rösli Martin, Probst-Hensch Nicole</b> Long-term exposure to road, railway, and aircraft noise levels and their association with incidence of obesity and obesity parameters. 12 <sup>th</sup> international congress on noise as a public health problem, Zurich, 06-18 to 06-22 🍄		
<b>Locher Barbara, Piquerez André, Habermacher Manuel, Ragettli Martina, Rösli Martin, Brink Mark, Cajochen Christian, Probst-Hensch Nicole, Foraster Maria, Wunderli Jean Marc</b> A statistical model to predict Sound Level differences between in- and outdoors. 12 <sup>th</sup> IC BEN Congress on Noise as a Public Health Problem, Zürich, 06-18 to 06-22 🍄		
<b>Milošević Milana, Glavitsch Ulrike</b> Combining Gaussian mixture models and segmental feature models for speaker recognition. 18 <sup>th</sup> Annual Conference of the International Speech Communication Association (INTERSPEE2017), Stockholm, SE, 08-20 to 08-24 🍄		
<b>Pieren Reto, Heutschi Kurt, Aalmoes Roalt, Simons Dick G.</b> Evaluation of auralization and visualization systems for railway noise scenes. 46 <sup>th</sup> international congress and exposition on noise control engineering INTER-NOISE 2017, Hong Kong, HK, 09-27 to 11-30 🍄 ○		



Acoustics/Noise Control	<p><b>Rööfli Martin, Vienneau Danielle, Foraster Maria, Eze Ikenna C., Héritier Harris, Schaffner Emmanuel, Thiesse Laurie, Rudzik Franziska, Pieren Reto, Habermacher Manuel, Köpfli Micha, Brink Mark, Cajochen Christian, Wunderli Jean-Marc, Probst-Hensch Nicole</b></p> <p>Short and long term effects of transportation noise exposure (SiRENE): an interdisciplinary approach. 12<sup>th</sup> international congress on noise as a public health problem , Zurich, 06-18 to 06-22 🍄</p>
	<p><b>Sanavi Ali, Schäffer Beat, Heutschi Kurt, Eggenschwiler Kurt</b></p> <p>On the effect of acoustic diffusers in comparison to absorbers on the subjectively perceived quality of speech in ordinary rooms. 174<sup>th</sup> Meeting Acoustical Society of America, New Orleans, US, 12-04 to 12-08 🍄 ○</p>
	<p><b>Santoni Andrea, Bonfiglio Paolo, Fausti Patrizio, Schoenwald Stefan</b></p> <p>Predicting sound radiation and sound transmission in orthotropic cross-laminated timber panels. Acoustics '17 – Joint Meeting of the Acoustical Society of America and the European Acoustics Association, Boston, US, 06-25 to 06-29 🍄 ○</p>
	<p><b>Schäffer Beat, Pieren Reto, Mendolia Franco, Basner Mathias, Brink Mark</b></p> <p>On the application of two statistical approaches to establish noise exposure-response relationships from repeated binary observations. 12<sup>th</sup> ICBEN Congress on Noise as a Public Health Problem , Zürich, 06-18 to 06-22 🍄</p>
	<p><b>Schäffer Beat , Pieren Reto, Mendolia Franco, Basner Mathias, Brink Mark</b></p> <p>On the application of two statistical approaches to establish noise exposure-response relationships from repeated binary observations. 12<sup>th</sup> International Congress on Noise as a Public Health Problem, Zurich, 06-18 to 06-22 🍄</p>
	<p><b>Schäffer Beat, Pieren Reto, Schlittmeier Sabine J., Brink Mark, Heutschi Kurt</b></p> <p>Annoyance to wind turbine noise – influence of different acoustical characteristics. 46<sup>th</sup> international congress and exposition on noise control engineering INTER-NOISE 2017, Hong Kong, HK, 08-27 to 08-30 🍄</p>
	<p><b>Schlatter Felix, Piquerez André, Habermacher Manuel, Ragetli Martina, Rööfli Martin, Brink Mark, Cajochen Christian, Probst-Hensch Nicole, Foraster Maria, Wunderli Jean Marc</b></p> <p>Validation of the exposure modelling within SiRENE by Long-term measurements. 12<sup>th</sup> ICBEN Congress on Noise as a Public Health Problem , Zürich, 06-18 to 06-22 🍄</p>
	<p><b>Schoenwald Stefan, Tröbs Hans-Martin</b></p> <p>Ermittlung von schalltechnischen Planungsdaten. 8. HolzBauSpezial Bauphysik HBS 2017, Bad Wörrishofen, DE, 03-22 to 03-23 🍄 ○</p>
	<p><b>Schoenwald Stefan, Valley Sven, Tröbs Hans-Martin</b></p> <p>Advanced methods to determine sound power radiated from planar structures. Acoustics '17 – Joint Meeting of the Acoustical Society of America and the European Acoustics Association, Boston, US, 06-25 to 06-29 🍄 ○</p>
	<p><b>Schoenwald Stefan, Zemp Armin</b></p> <p>Numerical analysis on applicability of measurement method according to ISO 16283 in small rooms at low frequencies. Acoustics '17 – Joint Meeting of the Acoustical Society of America and the European Acoustics Association, Boston, US, 06-25 to 06-29 🍄 ○</p>
	<p><b>Thiesse L., Rudzik F., Pieren Reto, Wunderli Jean Marc, Spiegel K., Leproult R., Foraster M., Héritier H., Eze I.C., Vienneau D., Brink Mark, Probst-Hensch, Nicole, Rööfli Martin, Cajochen Christian</b></p> <p>Temporal variation of transportation noise during sleep impacts on glucose metabolism. 12<sup>th</sup> International Congress on Noise as a Public Health Problem, Zurich, 06-18 to 06-22 🍄</p>
	<p><b>Thoms Mike, Bozzolo Dario, Eggenschwiler Kurt, Gianola Corinne</b></p> <p>Frühlingstagung der Schweizerischen Gesellschaft für Akustik SGA-SSA, Lugano, 02-16 ■</p>
	<p><b>Tröbs Hans-Martin</b></p> <p>Ermittlung von Schalltechnischen Planungsdaten. Bauphysik-Forum 2017, Bad Ischl, AT, 04-27 🍄</p>
	<p><b>Van Damme Bart</b></p> <p>Modelling the transmission of ultrasound pulses through grain-to-grain contacts. Acoustics '17 – Joint Meeting of the Acoustical Society of America and the European Acoustics Association, Boston, US, 06-25 to 06-29 🍄 ○</p>
<p><b>Wunderli Jean Marc</b></p> <p>Lärmwirkungsforschung aus akustischer Sicht: Neue Ansätze in SiRENE. Herbsttagung der Schweizerischen Gesellschaft für Akustik SGA-SSA, Solothurn, 11-09 to 11-10 🍄 ○</p>	
<p><b>Wunderli Jean Marc, Zellmann Christoph, Köpfli Micha, Schwab Olivier, Schlatter Felix, Schäffer Beat</b></p> <p>The sonAIR aircraft noise simulation tool. 46<sup>th</sup> international congress and exposition on noise control engineering INTER-NOISE 2017, Hong Kong, HK, 08-27 to 08-30 🍄 ○</p>	
<p><b>Zeitler Berndt, Schoenwald Stefan, Höller Christoph</b></p> <p>Anwendung von Cremers parallelen Platten auf leichte Bauelemente. DAGA 2017 – 43. Jahrestagung für Akustik, Kiel, DE, 03-06 to 06-09 🍄</p>	
Advanced Analytical Technologies	<p><b>Arbelo Yunieski, Bleiner Davide</b></p> <p>Table-top XUV mass spectrometry for chemical surface-characterization of water-oxidation catalysts . EEAW Analytical Workshop, Zurich, 10-12 🍄 ○</p>
	<p><b>Arbelo Yunieski, Ruiz Mabel, Bleiner Davide</b></p> <p>Table-top XUV mass spectrometry for nano-scale chemical imaging . Winter Conference on Plasma Spectrochemistry, St Anton, AT, 02-19 to 02-24 ◆</p>

## Advanced Analytical Technologies

**Barbato Francesco, Antonelli Luca, Mancelli Donaldi, Renner Oldrich, Boutoux Guillaume, Smid Michal, Cristoforetti Gabriele, Baffigi Federica, Viciani Silvia, Donstal Jan, Dudzak Roman, Juha Libor, Schiavi Angelo, Gizzi Leonida, Bleiner Davide, Batani Dimitri, Atzeni Stefano**

Experimental assessment of hot electron effects on shock-wave propagation in plane plastic targets irradiated at  $10^{15}$  Wcm<sup>-2</sup>. IFSA 2017 (International Conference on Inertial Fusion Sciences and Applications), St Malo, FR, 09-11 to 09-15 🍀

**Barbato Francesco, Atzeni Stefano, Batani Dimitri, Bleiner Davide, Boutoux Guillaume, Brabetz Christian, Mancelli Donaldi, Neumayer Paul, Trela Jocelyn, Volpe Luca, Zeraouli Ghassan, Antonelli Luca**

Experimental in-line Phase-Contrast Imaging (PCI) of a shock wave. IFSA 2017 (International Conference on Inertial Fusion Sciences and Applications), St Malo, FR, 09-11 to 09-15 ♦

**Barbato Francesco, Cristoforetti Gabriele, Antonelli Luca, Atzeni Stefano, Baffigi Federica, Barbato Francesco, Batani Dimitri, Boutoux Guillaume, Colaitis Arnaud, Dostal Jan, Dudzak Roman, Juha Libor, Koester Petra, Mancelli Donaldi, Renner Oldrich, Skoric Milos, Tikhonchuk Victor, Viciani Silvia, Gizzi Leonida**

Experimental investigation on parametric instabilities in shock ignition regime at PALS. IFSA 2017 (International Conference on Inertial Fusion Sciences and Applications), St Malo, FR, 09-11 to 09-15 🍀

**Bleiner Davide**

Black Swans and Quantum Leaps on the road to Enabling-Spectroscopy. LightChEC Research Seminar, Zurich, 03-15 🍀 ○

**Bleiner Davide**

Extreme UV Laser Ablation for Enhanced Spatial Resolution and Stoichiometric Microanalysis. North American Workshop on Laser Ablation, Austin, TX, US, 05-25 to 05-27 🍀 ○

**Bleiner Davide, Bleiner Davide, Arbelo Yunieski, Barbato Francesco, Patzke Greta**

Table-top XUV Plasma-Laser for Chemical Imaging. Winter Conference on Plasma Spectrochemistry, St Anton, AT, 02-19 to 02-24 🍀

**Bleiner Davide, Masoudnia Leili, Ruiz Mabel, Barbato Francesco, Arbelo Yunieski**

Table-top two-color soft X-ray laser by means of Ni-like plasmas. X-Ray Lasers and Coherent X-Ray Sources: Development and Applications, Prague, CZ, 04-24 to 04-26 🍀 ○

**Bleiner Davide, Sambalova Olga, Arbelo Yunieski, Barbato Francesco, Patterson Bruce, Borgschulte Andreas**

Advanced XUV Time-Resolved Spectroscopy with a "Home-Lab" Source. XTRAM X-ray Time-Resolved Spectroscopy, Erice, IT, 07-21 to 07-25 🍀 ○

**Borgschulte Andreas**

GRC Hydrogen Metal Systems 2017, Stonehill College, Easton, MA, US, 07-16 to 07-21 ▲ ○

**Borgschulte Andreas**

Practical Renewable Energy Storage, Empa Dübendorf, 10-31 ■

**Borgschulte Andreas, Sambalova Olga**

Applications of the Raman effect: from energy research to waste water analysis. EEA Analytical Workshop, Dübendorf, 10-12 🍀 ○

**Borgschulte Andreas, Terreni Jasmin, Trtik Pavel, Lehmann Eberhard, Delmelle Renaud, Heel Andre**

CO<sub>2</sub> Hydrogenation Reactions followed by Neutron Imaging. 9<sup>th</sup> Empa Topical Day on Imaging and Image, Empa Dübendorf, 04-04 🍀

**Borgschulte Andreas, Terreni Jasmin, Trtik Pavel, Lehmann Eberhard, Delmelle Renaud, Heel Andre**

CO<sub>2</sub> Hydrogenation Reactions followed by Neutron Imaging. 9<sup>th</sup> Empa Topical Day on Imaging and Image, Empa Dübendorf, 04-04 🍀

**Borgschulte Andreas, Terreni Jasmin, Rudic Svemir, Parker Stewart F.**

Inelastic Neutron Scattering - When Infrared and Raman Spectroscopy fail. URPP LightChEC Science Seminar, Uni Zürich, 07-17 🍀

**Borgschulte Andreas, Terreni Jasmin, Sambalova Olga, Delmelle Renaud, Heel Andre, Trtik Pavel, Lehmann Eberhard, Rudic Svemir, Parker Stewart F.**

Neutrons Support Renewable Energy Technology. 2<sup>nd</sup> Empa-AIST joint workshop on "Energy Materials", Kansai, JP, 10-10 to 10-11 🍀 ○

**Borgschulte Andreas, Terreni Jasmin, Sambalova Olga, Rudic Svemir, Parker Stewart F., Trtik Pavel, Lehmann Eberhard, Delmelle Renaud, Heel Andre**

Neutrons Support Renewable Energy Technology. 2<sup>nd</sup> Empa-AIST Joint Workshop on "Energy Materials", Kansai, JP, 10-10 to 10-11 🍀 ○

**Brem Benjamin**

Session 3: Aircraft and Airports. 21<sup>st</sup> ETH-Conference on Combustion Generated Nanoparticles, ETH Zürich, 06-19 to 06-22 ▲

**Brem Benjamin**

The non-volatile particle emission standard for aero gas turbines. NAREP Seminar, Empa Dübendorf, 11-06 🍀 ○

**Brem Benjamin, Durdina Lukas, Elser Miriam, Schönenberger David, Setyan Ari, Wyss Simon, Zeyer Kerstin, Munoz Maria, Schreiber Daniel, Liati Anthi, Haag Regula, Rentsch Daniel, Fischer Andrea, Mohn Joachim, Heeb Norbert**

Impact of alternative fuels on the non-volatile particulate matter mass and number emissions of an aero gas turbine. 22<sup>th</sup> International Transport and Air Pollution Conference, Empa Dübendorf, 11-15 to 11-16 🍀

<b>Advanced Analytical Technologies</b>	<p><b>Brem Benjamin, Durdina Lukas, Elser Miriam, Schönenberger David, Siegerist Frithjof, Setyan Ari, Wang Jing</b>          Variability in non-volatile particulate matter emissions of aero gas turbines; engine deterioration. 21<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles, Zurich, 06-19 to 06-22 🍀</p>
	<p><b>Brem Benjamin, Durdina Lukas, Elser Miriam, Setyan Ari, Schoenenberger David, Wyss Simon, Zeyer Kerstin, Siegerist Frithjof, Munoz Maria, Haag Regula, Rentsch Daniel, Mohn Joachim, Heeb Norbert, Wang Jing</b>          Impact of alternative fuel on the non-volatile particulate matter mass and number emissions of an in-production aero gas turbine. European Aerosol Conference 2017, Zürich, 08-27 to 09-01 ◆</p>
	<p><b>Brem Benjamin, Durdina Lukas, Elser Miriam, Setyan Ari, Schönenberger David, Wyss Simon, Zeyer Kerstin, Siegerist Frithjof, Munoz Maria, Haag Regula, Rentsch Daniel, Mohn Joachim, Heeb Norbert, Wang Jing</b>          Impact of alternative fuel on the non-volatile particulate matter mass and number emissions of an in-production aero gas turbine. 21<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles, Zürich, 06-19 to 06-22 ◆</p>
	<p><b>Brem Benjamin, Rindlisbacher Theo</b>          Von Russfahnen zu unsichtbaren Nanopartikeln: Feinstaubemmissionen von Flugzeuggasturbinen. Die Schweizerische Vereinigung für Flugwissenschaften SVFW, ETH Zürich, 04-06 🍀 ○</p>
	<p><b>Brem Benjamin, Schreiner Claudia, Figi Renato, Durdina Lukas, Setyan Ari, Elser Miriam, Schönenberger David, Wang Jing</b>          Metallic elements in aero gas turbine exhaust. European Aerosol Conference (EAC, Uni Irchel Zürich, 08-27 to 09-01 🍀</p>
	<p><b>Cariou Ronan, Guitton Yann, Lesquin Élodie, Léon Alexis, Munsch Catherine, Tixier Céline, Schinkel Lena, Labadie Pierre, Budzinski Hélène, Bichon Emmanuelle, Marchand Philippe, Dervilly-Pinel Gaud, Le Bizec Bruno</b>          Characterization of chlorinated paraffin profiles in sediment and biota by LC-ESI(-)-HRMS and semi-automatic post-acquisition data treatment. DIOXIN 2017, Vancouver, CA, 08-20 to 08-25 ◆</p>
	<p><b>Cariou Ronan, Mézière Marie, Guitton Yann, Larvor Frédéric, Lesquin Élodie, Omer Elsa, Léon Alexis, Munsch Catherine, Tixier Céline, Schinkel Lena, Labadie Pierre, Budzinski Hélène, Bichon Emmanuelle, Marchand Philippe, Dervilly-Pinel Gaud, Le Bizec Bruno</b>          Characterisation of chlorinated paraffin profiles by LC-ESI(-)-HRMS and semi-automatic post-acquisition data treatment. RAFA 2017, Prague, CZ, 11-07 to 11-10 ◆</p>
	<p><b>Cirelli Claudio, Barbato Francesco, Arbelo Pena Yunieski, Borgschulte Andreas, Mewes Lars, Kinschel Dominik, Arrell Chris A., Budarz James, Callegari Carlo, Prince Kevin, Richter Robert, Miotti Paolo, Frassetto Paolo, Poletto Luca, Orlando Stefano, Patterson Bruce D., Chergui Majed, Coreno Marcello, Bleiner Davide</b>          Soft X-ray spectroscopy on photoactive molecular systems in solution. LiXS 2017 Workshop – Liquid X-ray spectroscopy, Paris, FR, 01-17 to 01-18 🍀 ○</p>
	<p><b>Drdova Sarka, He Xu, Wang Jing</b>          Comparison of Catalyst Immobilization Techniques onto Filter Media for Airborne VOCs Decomposition. European Aerosol Conference, Zurich, 08-28 to 12-31 🍀</p>
	<p><b>Durdina Lukas</b>          8<sup>th</sup> VERT Forum: Particle Filter Technologies, Dübendorf, 03-17 ■</p>
	<p><b>Durdina Lukas</b>          Chair of the special session on particle emissions from aircraft and ships. European Aerosol Conference 2017, Zürich, 08-28 to 09-01 ▲</p>
	<p><b>Durdina Lukas, Brem Benjamin</b>          Come fly with me: Measuring and modeling particle emissions from jet airliners. IfU research speed dating (ETH D-BAUG), ETH Höggerberg, Zürich, 10-05 🍀</p>
	<p><b>Durdina Lukas, Brem Benjamin, Schönenberger David, Elser Miriam, Wang Jing</b>          Empairex 1 measurement campaign overview and smoke number measurements. SAE E-31 Aircraft Exhaust Emissions Measurement Committee meeting, Halifax, CA, 06-05 to 06-09 🍀</p>
	<p><b>Durdina Lukas, Brem Benjamin, Setyan Ari, Siegerist Frithjof, Rindlisbacher Theo, Wang Jing</b>          Assessment of particle pollution from jetliners: from smoke visibility to nanoparticle counting. 21<sup>st</sup> ETH conference on combustion generated nanoparticles, Zürich, 06-19 to 11-22 🍀</p>
	<p><b>Durdina Lukas, Brem Benjamin, Setyan Ari, Siegerist Frithjof, Rindlisbacher Theo, Wang Jing</b>          Assessment of particle pollution from jetliners: from smoke visibility to nanoparticle counting. European Aerosol Conference 2017, Zürich, 08-28 to 09-01 🍀</p>
	<p><b>Durdina Lukas, Elser Miriam, Brem Benjamin, Schönenberger David, Wang Jing</b>          Correlations of nonvolatile particulate matter mass and number emissions and particle size with smoke number determined for commercial aircraft jet engines. 21<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles, Zurich, 06-19 to 06-22 ◆</p>
	<p><b>Elser Miriam, Brem Benjamin, Durdina Lukas, Schönenberger David, Wang Jing</b>          Optical properties of black carbon particles in aircraft engine exhaust. 21<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles, Zurich, 06-19 to 06-22 ◆</p>
	<p><b>Elser Miriam, Brem Benjamin, Durdina Lukas, Schönenberger David, Wang Jing</b>          Optical properties of BC in aircraft engine exhaust: Engine type, operating conditions, and fuel effects. 36<sup>th</sup> AAAR Annual Conference, Raleigh, North Carolina, US, 10-16 to 10-20 ◆</p>
	<p><b>Figi Renato, Schreiner Claudia</b>          Nasschemische ROHS-Analytik. ROHS-Kampagne 2018, Zürich, 06-14 🍀 ○</p>

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	<p><b>Figi Renato, Schreiner Claudia</b> Nichtmetall-Analysen (C,O,N,H) als unverzichtbare Helfer in der Röntgenfluoreszenz-Analytik. Anwendertreffen Leco Instruments, Berlin, DE, 10-24 to 10-25 🍀 ○</p>
	<p><b>Heeb Norbert</b> Motivation, project design, fleet characteristics, experimental set-up of the GASOMEPE project. Final GASOMEPE Meeting, Empa Dübendorf, 03-16 🍀 ○</p>
	<p><b>Heeb Norbert</b> Final GASOMEPE Meeting, Empa Dübendorf, 03-16 ■</p>
	<p><b>Heeb Norbert</b> Final GASOMEPE Meeting, Empa Dübendorf, 03-16 ▲</p>
	<p><b>Heeb Norbert</b> Chemistry of the NOx trap technology. 8<sup>th</sup> VERT Forum: Particle Filter Technologies, Empa Dübendorf, 03-17 🍀 ○</p>
	<p><b>Heeb Norbert</b> 8<sup>th</sup> VERT Forum: Particle Filter Technologies, Empa Dübendorf, 03-17 ■</p>
	<p><b>Heeb Norbert</b> Haben Verbrennungsmotoren eine Zukunft? Effiziente Abgaskatalyse für eine neue Generation von Diesel- und Benzinmotoren. GDCH-Kolloquium, Bergische Universität, Wuppertal, DE, 05-17 🍀 ○</p>
	<p><b>Heeb Norbert</b> Blue Technology: Not green enough yet: Nitrogen chemistry of current on-road deNOx technologies. 21<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles, Zürich, 06-19 to 06-22 🍀 ○</p>
	<p><b>Heeb Norbert</b> Focus Event: Will diesel technology survive?. 21<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles, Zürich, 06-19 to 06-22 ▲</p>
	<p><b>Heeb Norbert</b> 21<sup>th</sup> ETH Conference on Combustion Generated Nanoparticles, Zürich, 06-19 to 06-22 ■</p>
	<p><b>Kammermann Thomas, Soltic Patrik, Kreutner Wolfgang, Bach Christian, Bleiner Davide, Boulouchos Konstantinos</b> Temporally-resolved Spark-Induced Breakdown Spectroscopy for Optical In-Cylinder Diagnostics. 4<sup>th</sup> SCCER Mobility Annual Conference, ETH Zürich, 09-15 ◆</p>
	<p><b>Munoz Fernandez Maria</b> Genotoxic potential of GDI exhausts without and with GPFs. Final GASOMEPE Meeting, Empa, Dübendorf, 03-16 🍀</p>
	<p><b>Munoz Fernandez Maria</b> Are GDI vehicle exhausts genotoxic like non-treated diesel exhausts?. 21<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles, Zürich, 06-19 to 06-22 🍀</p>
	<p><b>Munoz Fernandez Maria</b> Genotoxic potential of GDI exhausts. JAMA Meeting at Empa, Empa, Dübendorf, 10-11 🍀 ○</p>
	<p><b>Munoz Fernandez Maria</b> 22<sup>nd</sup> International Transport and Air Pollution Conference, Empa, Dübendorf, 11-15 to 11-16 ▲</p>
	<p><b>Munoz Fernandez Maria</b> 22<sup>nd</sup> Transport and Air Pollution Conference, Empa, Dübendorf, 11-15 to 11-16 ■ ○</p>
	<p><b>Munoz Fernandez Maria, Heeb Norbert, Comte Pierre, Czerwinski Jan, Haag Regula, Zeyer Kerstin, Mohn Joachim</b> Effects of two oxygenated fuels on genotoxic emissions of GDI vehicles. 21<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles, Zürich, 06-19 to 06-22 ◆</p>
	<p><b>Munoz Fernandez Maria, Heeb Norbert, Comte Pierre, Czerwinski Jan, Haag Regula, Zeyer Kerstin, Mohn Joachim</b> Are GPFs effective for reducing genotoxic emissions of GDI vehicles?. 22<sup>nd</sup> Transport and Air Pollution Conference, Dübendorf, 11-15 to 11-16 ◆</p>
	<p><b>Sachinidou Panagiota, Heuschling Claire, Wang Jing</b> Mechanism of organic solvent induced charge degradation of electret filters. European Aerosol Conference, Zurich, 08-27 to 09-01 🍀</p>
	<p><b>Sambalova Olga, Oh Sue, Probst Benjamin, Alberto Roger, Bleiner Davide, Borgschulte Andreas</b> Photoinduced Spin Changes in Co-based Water Reduction Catalysts. SAOG 2017, Fribourg, 01-27 ◆</p>
	<p><b>Sambalova Olga, Arbelo Pena Yunieski, Delmelle Renaud, Cirelli Claudio, Patterson Bruce, Barbato Francesco, Bleiner Davide, Borgschulte Andreas</b> X-ray absorption spectroscopy probing hydrogen in metals. SPIE, X-ray Lasers and Coherent X-ray Sources: Development and Applications conference, Prague, CZ, 04-24 to 04-28 🍀 ○</p>
	<p><b>Sambalova Olga, Arbelo Pena Yunieski, Delmelle Renaud, Cirelli Claudio, Patterson Bruce, Barbato Francesco, Bleiner Davide, Borgschulte Andreas</b> X-ray absorption spectroscopy probing hydrogen in metals. GRC Hydrogen Metal Systems 2017, Stonehill College, Easton, MA, US, 07-16 to 07-21 ◆</p>
	<p><b>Sambalova Olga, Arbelo Pena Yunieski, Barbato Francesco, Bleiner Davide, Borgschulte Andreas</b> Probing Solar Water Splitting with UHV Mass spectrometry and soft X-ray absorption spectroscopy. URPP Light ChEC Symposium: From solar light to chemical energy, Uni Zürich, 11-10 ◆</p>

<b>Advanced Analytical Technologies</b>	<b>Schinkel Lena, Cariou Ronan, Heeb Norbert</b> New internal standards for CP analysis. CWG "Chlorinated Paraffins" by EURL, Freiburg, DE, 11-14 ♣ ○
	<b>Schinkel Lena, Heeb Norbert, Bogdal Christian, Dubois Nathalie, Haas Mischa, Cariou Ronan, McNeill Kristopher</b> Digging in environmental contaminants of current & older generations: Trends of chlorinated paraffins. Empa PhD Students' Symposium 2017, Dübendorf, 11-13 ◆
	<b>Schinkel Lena, Lehner Sandro, Heeb Norbert, Lienemann Peter, McNeill Kristopher, Bogdal Christian</b> Deconvolution of chlorinated paraffins and their transformation products from mass spectra. Empa PhD Students' Symposium, Dübendorf, 2016-11-14 ♣
	<b>Schinkel Lena, Lehner Sandro, Bogdal Christian, Lesquin Élodie, Marchand Philippe, Cariou Ronan, McNeill Kristopher, Heeb Norbert</b> The chlorinated paraffin, olefin problem: Comparison of HRMS & URHMS. IBP PhD Congress, Dübendorf, 04-21 ◆
	<b>Schinkel Lena, Lehner Sandro, Schalles Simone, Heeb Norbert, Bogdal Christian</b> Introduction to Chlorinated Paraffins. Environmental Chemistry Group Seminar, IBP, ETH Zurich, Zurich, 05-16 ♣ ○
	<b>Schinkel Lena, Lehner Sandro, Heeb Norbert, Lesquin Elodie, Marchand Philippe, Cariou Ronan, Bogdal Christian</b> The CP, CO problem: Resolving mass interferences of chlorinated paraffins (CPs) and their thermal transformation products, chlorinated olefins (COs). CWG "Chlorinated Paraffins" by EURL, Maribor, SI, 06-21 ♣ ○
	<b>Schinkel Lena, Lehner Sandro, Heeb Norbert, Lesquin Élodie, Marchand Philippe, Cariou Ronan, McNeill Kristopher, Bogdal Christian</b> The CP, CO problem: Three methods to resolve severe mass interferences of chlorinated paraffins (CPs) and chlorinated olefins (COs). DIOXIN symposium, Vancouver, CA, 08-20 to 08-25 ♣
	<b>Schinkel Lena, Lehner Sandro, Knobloch Marco, Heeb Norbert, Bogdal Christian</b> Transformation of CPs during metal work and thermal exposure. CWG "Chlorinated Paraffins" by EURL, Freiburg, DE, 11-14 ♣ ○
	<b>Schreiner Claudia, Figi Renato</b> "Pitfalls in the analysis of Printed Circuit Boards (PCB)". Horizon ProSum Meeting, Hamburg, DE, 02-13 to 02-14 ♣ ○
	<b>Schreiner Claudia, Figi Renato</b> "Pitfalls in the analysis of Printed Circuit Boards (PCB)". NAREP, Dübendorf, 10-02 ♣ ○
	<b>Senn Marianne, Eschenlohr Ludwig, Tauber Jürg, Wichser Adrian, Bleiner Davide</b> From bloomery furnace to blast furnace – effect on the chemistry of cast iron and steel. 21ième colloque international du GMPCA; Archéométrie, Rennes, FR, 04-18 to 04-21 ♣
	<b>Terreni Jasmin, Borgschulte Andreas, Olah Michael, Patzke Greta</b> Sulfur on Nickel Catalysts Impedes the Adsorption of Reaction Products. SAOG 2017, Fribourg, 01-27 ◆
	<b>Terreni Jasmin, Trtik Pave, Lehmann Eberhard, Delmelle Renaud, Heel Andre, Borgschulte Andreas</b> Neutrons envision Catalysis of CO <sub>2</sub> Reduction. URPP LightChEC Symposium, Uni Zürich, 11-10 ◆
	<b>Woerner Michael, Borgschulte Andreas, Weishaupt Jannick, Rouzee Andre, Woerner Michael</b> Applications of the Raman effect: From femtosecond spectroscopy to waste water analysis. Dynamical Properties of Solids 2017, Cracov, PL, 08-27 to 08-31 ♣ ○
	<b>Zennegg Markus</b> Persistente organische Schadstoffe bei Brandereignissen. Fachtagung Herausforderung Brandschaden. Fragestellungen und Lösungen aus der Praxis, Dübendorf, 11-30 ♣ ○
	<b>Zennegg Markus, Bleiner Davide</b> Gas chromatography high resolution mass spectrometry for the analysis of Stockholm convention POPs. 2 <sup>nd</sup> Eawag-Empa Analytical Workshop, Dübendorf, 10-12 ♣ ○
	<b>Zennegg Markus, Strobel Anneli, Schmid Peter, Segner Helmut, Burkhardt-Holm Patricia</b> Persistent organic pollutants in two species of white-blooded Antarctic fish. 37 <sup>th</sup> International Symposium on Halogenated Persistent Organic Pollutants (POPs) – DIOXIN 2017., Vancouver, CA, 08-20 to 08-25 ♣
	<b>Zennegg Markus</b> Plenary Lecture: Dioxins and PCBs in meat – still a matter of concern?. Swiss Food Science Meeting (SFSM) 2017, Neuchâtel, 08-17 to 08-18 ♣ ○
<b>Air Pollution/ Environmental Technology</b>	<b>Aseev Oleg, Tuzson Béla, Looser Herbert, Scheidegger Philipp, Liu Chang, Emmenegger Lukas</b> Mid-IR spectroscopy for the detection of organic molecules. IR Workshop, Olching, DE, 2016-11-07 to 2016-11-08 ♣
	<b>Berchet Antoine, Katrin Zink, Lukas Emmenegger, Dominik Brunner</b> High resolution air pollution modeling for urban environments in support of dense multi-platform networks. EGU General Assembly, Vienna, AT, 04-23 to 04-28 ◆
	<b>Berchet Antoine, Katrin Zink, Lukas Emmenegger, Dominik Brunner</b> Simulating hourly NO <sub>x</sub> , PM <sub>10</sub> and CO <sub>2</sub> in the city of Zurich at the building-resolving scale for two years. ASAAQ conference, Strasbourg, FR, 05-29 to 05-31 ♣



<b>Air Pollution/ Environmental Technology</b>	<b>Berchet Antoine, Michael Müller, Dominik Brunner, Christoph Hüglin, Peter Graf, Lukas Emmenegger</b> CarboSense: A low-cost low-power CO2 network for the city of Zurich and . GMT conference, Empa, Dübendorf, 08-21 to 08-25 ◆
	<b>Bereiter Bernhard, Jeff Severinghaus, Sarah Shackleton, Daniel Baggenstos, Kenji Kawamura</b> Mean ocean temperature change over the last glacial transition based on heavy noble gases in the atmosphere. EGU General Assembly, Session "Open Session on General Circulation, Ocean Climate Variability and Air-Sea Interactions." (OS1.1), Vienna, AT, 04-24 to 04-28 ◆
	<b>Bereiter Bernhard, Jeff Severinghaus, Sarah Shackleton, Daniel Baggenstos, Kenji Kawamura</b> Mean ocean temperature change during the last glacial transition. 10 <sup>th</sup> International Carbon Dioxide Conference, Interlaken, 08-21 to 08-25 ◆
	<b>Bereiter Bernhard, Lars Maechler, Jochen Schmitt, Remo Walther, Béla Tuzson, Philipp Scheidegger, Lukas Emmenegger, Hubertus Fischer</b> Towards a novel continuous sublimation extraction, laser spectroscopy method for greenhouse gas measurements in the oldest ice. EGU General Assembly 2017, Session "The state-of-the-art in ice coring sciences" (CL1.11, AS4.18, CR2.8), Vienna, AT, 04-24 to 04-28 ◆
	<b>Bereiter Bernhard, Paul Vallelonga, Barbara Stenni, James White</b> Co-Convener. EGU General Assembly 2017, Session "The state-of-the-art in ice coring sciences" (CL1.11, AS4.18, CR2.8), Vienna, AT, 04-24 to 04-28 ■
	<b>Boleti Eirini, Christoph Hüglin, Satoshi Takahama</b> Trend assessment of ozone concentrations in Europe based on time scale decomposition.. EGU General Assembly 2017, Vienna, AT, 04-25 to 04-27 ♣
	<b>Brunner Dominik</b> Immissionsmodellierung: Ein Blick in die Gegenwart und Zukunft. Ostluft Workshop für Projektentwicklung 2017, Halbinsel Au, Zürich, 05-31 ♣ ○
	<b>Brunner Dominik</b> Session A1: The Atmosphere. 10 <sup>th</sup> International Carbon Dioxide Conference, Interlaken, 08-21 to 08-25 ▲
	<b>Brunner Dominik</b> Understanding methane and carbon dioxide sources and sinks through atmospheric observations and high-resolution transport modeling from the regional to the city scale. Laboratory of Environmental Chemistry – Seminar, Universität Bern, 11-03 ♣ ○
	<b>Brunner Dominik</b> Stadt- und Klimawandel: eine Übersicht. ETH Klimarunde 2017, ETH Zürich, Auditorium Maximum, 11-08 ♣ ○
	<b>Brunner Dominik, Henne Stephan, Reimann Stefan, Vollmer Martin</b> Inverse modelling of halocarbon emissions: Overview and applications in Europe. Inverse Modelling Workshop, JRC Ispra, IT, 06-21 to 06-22 ♣ ○
	<b>Eggleston Sarah, Galbraith Eric D., Jaccard Samuel L., Kienast Markus, Cartapanis Olivier</b> Comparison of the atmospheric CO2 sink due to the marine soft tissue pump during the LGM and MIS 4. International Carbon Dioxide Conference 10, Interlaken, 08-21 to 08-25 ◆
	<b>Fischer Andrea</b> RFA Colloquium Natural Resources and Pollutants + Energy, Dübendorf, 2016-01-01 to 1900-01-01 ■
	<b>Fischer Andrea</b> GMT 2017 – Greenhouse Gases & Measurement Techniques, Dübendorf, 08-27 to 08-31 ■
	<b>Henne Stephan, Brunner Dominik, Leuenberger Markus, Satar Ece, Berhanu Tesfaye, Eugster Werner, Bamberger Ines, Liu Yu, Gruber Nicolas, Mystakidis Stefanos, Seneviratne Sonia, Steinbacher Martin, Meinhardt Frank, Reimann Stefan, Vollmer Martin, Emmenegger Lukas</b> Inverse Modelling of Greenhouse Gas Emissions – From the Global to the Urban Scale. CEP Seminar, University of Bern, Bern, 05-08 ♣ ○
	<b>Henne Stephan, Brunner Dominik, Leuenberger Markus, Steinbacher Martin, Meinhardt Frank, Eugster Werner, Vollmer Martin, Wyss Simon, Emmenegger Lukas</b> Validation of Swiss CH4 Emissions. Inverse Modelling Workshop, Ispra, IT, 06-21 to 06-22 ♣ ○
	<b>Henne Stephan, Leuenberger Markus, Steinbacher Martin, Eugster Werner, Meinhardt Frank, Bergamaschi Peter, Emmenegger Lukas, Brunner Dominik</b> Constraining Swiss Methane Emissions from Atmospheric Observations: Sensitivities and Temporal Development. EGU General Assembly, Vienna, AT, 04-23 to 04-28 ◆
	<b>Henne Stephan, Mohn Joachim, Leuenberger Markus, Meinhardt Frank, Steinbacher Martin, Vollmer Martin, Reimann Stefan, Emmenegger Lukas, Brunner Dominik</b> Top-down Validation of Swiss non-CO2 Greenhouse Gas Emissions . 18 <sup>th</sup> GEIA Conference, Hamburg, DE, 09-13 to 09-15 ♣
	<b>Hueglin Christoph</b> Did policies to abate air pollution have an positive effect on Black Carbon?. 8 <sup>th</sup> VERT Forum, Dübendorf, 03-17 ♣ ○
	<b>Hueglin Christoph</b> Effects of traffic related abatement policies on Swiss air Quality trends. Combustion Generated Nanoparticles Conference, Zurich, 06-19 to 06-22 ♣ ○



<b>Air Pollution/ Environmental Technology</b>	<p><b>Hueglin Christoph, Boleti Eirini, Emmenegger Lukas, Takahama Satoshi</b> Long-term trend of ozone at surface sites in the alpine region. VAO Symposium 2017, Bolzano, IT, 03-28 to 03-30 🌿</p>
	<p><b>Hueglin Christoph, Fischer Andrea, Schwarzenbach Beat, Emmenegger Lukas,</b> Long-term trend of equivalent black carbon at different site types in . European Aerosol Conference, Zurich, 08-27 to 09-01 🌿</p>
	<p><b>Hueglin Christoph, Fischer Andrea, Schwarzenbach Beat, Emmenegger Lukas,</b> Effects of traffic related abatement policies on Swiss air quality trends. Transport and Air Pollution Conference 2017, Duebendorf, 11-15 to 11-16 🌿</p>
	<p><b>Hueglin Christoph, Hundt Morten, Mueller Michael, Schwarzenbach Beat, Tuzson Béla, Emmenegger Lukas</b> Experience with new technologies for selective measurements of atmospheric NO2. workshop NOx-VOC quality assurance in ACTRIS-2, Duebendorf, 05-08 to 05-10 🌿 ○</p>
	<p><b>Hundt Morten, Shahmohammadi Mehran, Kapsalidis Filippos, Tuzson Béla, Liu Chang, Scheidegger Philipp, Süess Martin, Looser Herbert, Faist Jérôme, Emmenegger Lukas</b> Multi-species Trace Gas Analysis with Dual-wavelength. DFB-QCLs . CLEO2017, San Jose, CA, US, 05-14 to 05-19 🌿</p>
	<p><b>Ibraim Erkan</b> Simultaneous field-scale measurements of the four most abundant N2O isotopocules. Isotopes, Ascona, 07-09 to 07-14 🌿</p>
	<p><b>Ibraim Erkan</b> Simultaneous field-scale in-situ measurements of the four most abundant N2O isotopocules. PhD Symposium 2017, Dübendorf, 11-13 ◆</p>
	<p><b>Kantnerová Kristýna</b> Clumped isotopes in nitrous oxide: Development of a spectroscopic method (and possible applications). Empa PhD Students Gathering, Empa Dübendorf, 08-16 🌿</p>
	<p><b>Kantnerová Kristýna</b> Empa PhD Students' Symposium 2017, Empa Dübendorf, 11-13 ■</p>
	<p><b>Kantnerová Kristýna, Béla Tuzson, Lukas Emmenegger, Stefano M. Bernasconi, Joachim Mohn</b> Clumped isotopes in N2O: QCLAS method development . Isotopes 2017, Ascona, 07-09 to 07-14 ◆</p>
	<p><b>Kantnerová Kristýna, Béla Tuzson, Lukas Emmenegger, Stefano M. Bernasconi, Joachim Mohn</b> High precision spectroscopic measurement of N2O clumped isotopic species. 6<sup>th</sup> International Clumped Isotope Workshop 2017, Paris, FR, 08-10 to 08-12 🌿</p>
	<p><b>Kantnerová Kristýna, Béla Tuzson, Lukas Emmenegger, Stefano M. Bernasconi, Joachim Mohn</b> High precision spectroscopic measurement of N2O clumped isotopic species. Swiss Chemical Society Fall Meeting 2017, Bern, 08-21 to 08-22 🌿</p>
	<p><b>Kantnerová Kristýna, Béla Tuzson, Lukas Emmenegger, Stefano M. Bernasconi, Joachim Mohn</b> High precision spectroscopic measurement of N2O clumped isotopic species. 19<sup>th</sup> WMO, IAEA Meeting on Carbon Dioxide, Other Greenhouse Gases, and Related Measurement Techniques (GGMT-2017), Empa Dübendorf, 08-27 to 08-31 ◆</p>
	<p><b>Kantnerová Kristýna, Béla Tuzson, Lukas Emmenegger, Stefano M. Bernasconi, Joachim Mohn</b> Clumped isotopes in nitrous oxide: Development of a spectroscopic method. 1<sup>st</sup> D-ERDW and D-USYS Graduate Research Symposium, ETH Zürich, 10-05 ◆</p>
	<p><b>Kuhlmann Gerrit, Berchet Antoine, Brunner Dominik</b> High-resolution remote sensing and modelling of NO2 air pollution over the city of Zurich. 10<sup>th</sup> EARSeL SIG Imaging Spectroscopy workshop , Zürich, 04-19 to 04-21 🌿</p>
	<p><b>Kuhlmann Gerrit, Brunner Dominik</b> Airborne remote sensing of NO2 air pollution over the city of Zurich. DPG Frühjahrstagung, Bremen, DE, 03-13 to 03-17 🌿</p>
	<p><b>Kuhlmann Gerrit, Brunner Dominik</b> Improving the detection limit of airborne NO2 remote sensing by using DOAS in a wide spectral window. European Geosciences Union General Assembly 2017, Vienna, AT, 04-23 to 04-28 🌿</p>
	<p><b>Kuhlmann Gerrit, Schläpfer Daniel</b> Session on "Atmospheric Compensation Techniques". 10<sup>th</sup> EARSeL SIG Imaging Spectroscopy workshop , Zürich, 04-19 to 04-21 ▲</p>
	<p><b>Mohn Joachim</b> Progress in the analysis and interpretation of non-CO2 GHG isotopes. Group Seminar, Centre for Ice and Climate, University of Copenhagen, Copenhagen, DK, 01-31 🌿 ○</p>
	<p><b>Mohn Joachim</b> Session "Advances in Analytical Instrumentation". Isotopes 2017: The Cross-Disciplinary Conference on Stable Isotope Sciences, Ascona, 07-09 to 07-14 ▲</p>
	<p><b>Mohn Joachim</b> New international reference materials and scale for d15Na, d15Nb and d18O-N2O. SIRS Stakeholder Meeting, Dübendorf, 08-29 🌿 ○</p>

<b>Air Pollution/ Environmental Technology</b>	<p><b>Mohn Joachim, Assonov Sergey</b> Session "Isotope Measurements". 19<sup>th</sup> WMO, IAEA Meeting on Carbon Dioxide, Other Greenhouse Gases, and Related Measurement Techniques (GGMT-2017), Dübendorf, 08-27 to 08-31 ▲</p> <p><b>Mohn Joachim, Moossen Heiko, Biasi Christina, Jacksier Tracey, Yu Longfei, Eggleston Sarah, Zellweger Christoph, Brewer Paul</b> Development of new N<sub>2</sub>O reference materials for d15N, d18O and 15N site preference within the EMPIR project SIRS. 19<sup>th</sup> WMO, IAEA Meeting on Carbon Dioxide, Other Greenhouse Gases, and Related Measurement Techniques (GGMT-2017), Dübendorf, 08-27 to 08-31 ◆</p> <p><b>Mohn Joachim, Schrade Sabine</b> Validation of a dual tracer ratio method for comparative emission measurements in an experimental dairy housing. Meeting COST Action LivAGE, Bukarest, RO, 09-28 to 09-29 ♣ ○</p> <p><b>Mohn Joachim, Toyoda Sakae</b> Using Isotopic Fingerprints to Trace Nitrous Oxide in the Atmosphere. 19<sup>th</sup> WMO, IAEA Meeting on Carbon Dioxide, Other Greenhouse Gases, and Related Measurement Techniques (GGMT-2017), Dübendorf, 08-27 to 08-31 ♣</p> <p><b>Mohn Joachim, Tuzson Béla, Emmenegger Lukas</b> Frontiers in quantum cascade laser based analysis of greenhouse gas stable isotopes. Isotopes 2017: The Cross-Disciplinary Conference on Stable Isotope Sciences, Ascona, 07-09 to 07-14 ♣ ○</p> <p><b>Mohn Joachim, Tuzson Béla, Zellweger Christoph, Harris Eliza, Ibraim Erkan, Yu Longfei, Emmenegger Lukas</b> Progress in the analysis and interpretation of N<sub>2</sub>O isotopes: Potential and future challenges. European Geosciences Union General Assembly, Vienna, AT, 04-23 to 04-28 ◆</p> <p><b>Müller Michael, Béla Tuzson, Lukas Emmenegger</b> Analysis of high resolution isotopic signatures of CO<sub>2</sub> at the high altitude site Jungfrauoch in the period 2008-2016. EGU General Assembly 2017, Vienna, AT, 04-24 to 04-28 ◆</p> <p><b>Müller Michael, Peter Graf, Christoph Hüglin</b> Measuring NO, NO<sub>2</sub>, CO<sub>2</sub> and O<sub>3</sub> with low-cost sensors. EGU General Assembly 2017, Vienna, AT, 04-24 to 04-28 ◆</p> <p><b>Müller Michael, Tuzson Béla, Henne Stephan, Emmenegger Lukas</b> In-situ long-term record of CO<sub>2</sub> isotopic signatures using high-precision laser spectroscopy. ICDC10, Interlaken, 08-21 to 08-25 ◆</p> <p><b>Mussetti Gianluca, Brunner Dominik, Allegrini Jonas, Carmeliet Jan</b> Multi-resolution simulation of the urban heat island. Urban Microclimate : From Research to Application, HDB Centre of Building Research, SG, 04-26 ◆ ○</p> <p><b>Mussetti Gianluca, Brunner Dominik, Henne Stephan, Schubert Sebastian, Allegrini Jonas, Carmeliet Jan</b> Impact of model resolution on urban heat island simulation. 97<sup>th</sup> Annual Meeting of the American Meteorological Society. 13<sup>th</sup> Symposium of the Urban Environment, Seattle, US, 01-22 to 01-26 ◆</p> <p><b>Reimann Stefan</b> SPARC contribution to the WMO, UNEP ozone assessment (invited). WCRP, SPARC: Past and Future, Zürich, 12-01 ♣ ○</p> <p><b>Reimann Stefan</b> Evolution and observations of ozone depleting substances (invited). 30<sup>th</sup> Anniversary of the Montreal Protocol, Paris, FR, 09-19 to 09-20 ♣ ○</p> <p><b>Reimann Stefan</b> workshop NO<sub>x</sub>-VOC quality assurance in ACTRIS-2, Dübendorf, 05-08 to 05-10 ■</p> <p><b>Reimann Stefan, Brunner Dominik, Emmenegger Lukas</b> IG3IS. GAW Landesausschuss, Zürich, 05-03 ♣ ○</p> <p><b>Reimann Stefan, Brunner Dominik, Emmenegger Lukas</b> IG3IS. GAW Landesausschuss, Zürich, 05-03 ♣ ○</p> <p><b>Reimann Stefan, Brunner Dominik, Vollmer Martin, Emmenegger Lukas, Manning Alistair, DeCola Phil, Bergamaschi Peter, Tarasova Oksana</b> IG3IS: Integrated Global Greenhouse Gas Observation System. GAW Symposium, Geneva, 04-10 to 04-12 ♣ ○</p> <p><b>Reimann Stefan, Hill Matthias, Claude Anja, Fierää Ann-Mari</b> A sophisticated tool for checking NMHC data before submission to a database. GAW VOC meeting, Boulder, US, 05-24 to 05-25 ♣</p> <p><b>Reimann Stefan, Vollmer Martin, Brunner Dominik, Emmenegger Lukas, Manning Alistair, DeCola Phil, Tarasova Oksana</b> Towards a Novel Integrated Approach for Estimating Greenhouse. Gas Emissions in Support of International Agreements. NOAA ESRL meeting, Boulder, US, 05-23 to 05-24 ◆</p> <p><b>Steinbacher Martin</b> Empa's contribution to GEO, GEOSS. Nationale Koordinationssitzung GEO, GEOSS, Bern, 05-02 ♣</p> <p><b>Steinbacher Martin</b> Greenhouse Gas Measurements in Cholpon Ata as part of the CATCOS project and the rationale for follow-up activities under the AiPopprogramme. Seminar at Kyrgyzhydromet, Bishkek, KG, 07-06 ♣ ○</p>
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<b>Air Pollution/ Environmental Technology</b>	<b>Steinbacher Martin, Wyss Simon, Hueglin Christoph, Reimann Stefan, Leuenberger Markus, Emmenegger Lukas</b> Integrated observing systems in support of greenhouse gas emission reductions. VAO Symposium, Bolzano, IT, 03-28 to 03-30 🍀
	<b>Steinbacher Martin, Zellweger Christoph, Emmenegger Lukas, Buchmann Brigitte</b> QA, SAC – Activities and Achievements. GAW Symposium, Geneva, 04-10 to 04-13 ♦
	<b>Tuzson Béla, Emmenegger Lukas,</b> Quantum cascade laser spectroscopy: Applications, advances and outlook. Eawag – Empa Analytical Workshop, Dübendorf, 10-12 🍀 ○
	<b>Tuzson Béla, Hundt Morten, Looser Herbert, Shahmohammadi Mehran, Süess Martin, Graf Manuel, Kapsalidis Filippos, Liu Chang, Aseev Oleg, Scheidegger Philipp, Faist Jérôme, Emmenegger Lukas,</b> Recent Advances of Multispecies Mid-IR Spectroscopy for Mobile Applications. Conference on Lasers and Electro-Optics (CLEO) Europe, Munich, DE, 06-25 to 06-29 🍀
	<b>Tuzson Béla, Jagerska Jana, Looser Herbert, Felder Ferdinand, Tappy Luc, Emmenegger Lukas</b> Highly specific breath acetone analysis using a 3.3 $\mu$ broadly-tunable VECSEL. FLAIR, Aix-les-Bains, FR, 2016-09-11 to 2016-09-16 🍀
	<b>Vollmer Martin, AGAGE Team, Reimann Stefan, Hill Mathias, Wyss Simon</b> Unexpected Recent Changes in the Atmospheric Growth of the Minor Chlorofluorocarbons CFC-13, CFC-114, and CFC-115. AGAGE Meeting, Mulranny, IE, 06-11 to 06-17 🍀
	<b>Vollmer Martin, Reimann Stefan, AGAGE-Team</b> A Half-century Long Reconstruction of Atmospheric Non-methane Hydrocarbons from Archived Air Samples. WMO GAW VOC Expert Group Meeting, Boulder CO, US, 05-25 to 05-26 🍀
	<b>Vollmer Martin, Reimann Stefan, Henne Stephan, AGAGE-Team</b> On The Emissions of HCFCs and CFCs Potentially Related to HFC Production. NOAA ESRL Global Monitoring Annual Conference 2017, Boulder CO, US, 05-23 to 05-24 🍀
	<b>Wyss Simon A., Guillevic Myriam, Vicar Martin, Vollmer Martin K., Pascale Celine, Reimann Stefan, Niederhauser Bernhard, Emmenegger Lukas</b> SI-traceable reference gas mixtures for sulfur hexafluoride (SF <sub>6</sub> ) at the pmol, mol level: Methods, comparability and challenges. EGU 2017, Vienna, AU, 04-24 to 04-28 ♦
	<b>Zellweger Christoph, Mohn Joachim, Wyss Simon A., Brewer Paul, Mace Tatjana, Nieuwenkamp Gerard, Saarnio Karri, Pearce-Hill Ruth, Tarhan Tanil, Walden Jari, Emmenegger Lukas</b> Calibration standards for greenhouse gases and carbon monoxide: status and challenges. European Geosciences Union General Assembly 2017, Vienna, AT, 04-23 to 04-28 ♦
	<b>Zellweger Christoph, Müller Michael, Hüglin Christoph, Buchmann Brigitte, Hundt Morten, Emmenegger Lukas</b> Low cost sensors and their role in future observing systems. GAW 2017 Symposium, Geneva, 04-10 to 04-13 🍀 ○
	<b>Zellweger Christoph, Steinbacher Martin, Emmenegger Lukas, Buchmann Brigitte</b> World Calibration Centre WCC-Empa: Activities and Achievements. GAW 2017 Symposium, Geneva, 04-10 to 04-13 ♦
	<b>Zellweger Christoph, Steinbacher Martin, Emmenegger Lukas, Steinbrecher Rainer, Buchmann Brigitte</b> World Calibration Centre WCC-Empa: Activities and Achievements. 19 <sup>th</sup> WMO, IAEA Meeting on Carbon Dioxide, Other Greenhouse Gases, and Related Measurement Techniques (GGMT-2017), Dübendorf, 08-27 to 08-31 🍀
	<b>Zeyer Kerstin, Keck Margret, Schrade Sabine, Poteko Jernej, Mohn Joachim</b> NH <sub>3</sub> - und THG-Emissionen frei belüfteter Rindviehställe mittels Tracer-Ratio-Methode: Validierung für CH <sub>4</sub> . 13 Tagung: Bau, Technik und Umwelt 2017 in der landwirtschaftlichen Nutztierhaltung, Stuttgart-Hohenheim, DE, 09-18 to 09-20 🍀
	<b>Automotive Powertrain Technologies</b>
<b>Bütler Thomas</b> Transport and Air Pollution Conference 2017, Empa Dübendorf, 11-15 to 11-16 ▲	
<b>Bütler Thomas, Bach Christian</b> Post-Diesel mobility with or without Diesel?. 66 <sup>th</sup> LCA Discussion Forum – LCA of Mobility solutions: approaches and findings, ETH Zürich, 08-30 🍀 ○	
<b>Bütler Thomas, Huber Mathias, Cabalzar Urs, Bach Christian</b> Prototype vehicle powered by Hydrogen enriched Natural Gas (HCNG, up to 25 Vol.% H <sub>2</sub> ). SCCER Mobility Annual Conference 2017, ETH Zürich, 09-15 ♦	
<b>Cabalzar Urs</b> Empa's H <sub>2</sub> -refueling station – Running projects and experiences of one year operation. Swiss Mobility Days, Martigny, 04-26 to 04-30 🍀 ○	
<b>Cabalzar Urs</b> Hydrogen enriched natural gas as fuel. RENERG2 Final Conference, Empa Dübendorf, 10-30 🍀	
<b>Dimopoulos Eggenschwiler Panayotis</b> Characterization of particle emissions of Euro-6 passenger cars (CNG, gasoline, diesel) . 43 <sup>rd</sup> PMP Meeting, EC Joint Research Centre, IT, 03-14 to 03-16 🍀 ○	

<b>Automotive Powertrain Technologies</b>	<b>Dimopoulos Eggenschwiler Panayotis</b> Characterization of particle emissions of Euro-6 passenger cars (CNG, gasoline, diesel) . 8 <sup>th</sup> Vert Forum, Empa Akademie Dübendorf, 03-17 ♣ ○
	<b>Dimopoulos Eggenschwiler Panayotis</b> Characterization of particle emissions of Euro-6 light duty vehicles (CNG, gasoline, diesel) . 22 <sup>nd</sup> Intenational Transport and Air Pollution Conference (TAP), Dübendorf, 11-15 to 11-16 ♣ ○
	<b>Dimopoulos Eggenschwiler Panayotis, Durand Thibaut, Battaglia Corsin, Landmann Daniel, Tang Yinglu</b> Thermoelectric On-Board Power Generation from Exhaust Heat. Tagung Verbrennungsforschung in der Schweiz, ETH Zürich, 09-07 ◆
	<b>Dimopoulos Eggenschwiler Panayotis, Toops Todd, Khalek Imad</b> 13 <sup>th</sup> Interantional Conference on Engines and Vehicles, Capri, IT, 09-10 to 09-14 ■
	<b>Kammermann Thomas, Koch Jann, Wright Yuri M., Schürch Christian, Soltic Patrik, Boulouchos Konstantinos</b> Hydrogen-enriched Methane Combustion. Tagung Verbrennungsforschung in der Schweiz, ETH Zürich, 09-07 ◆
	<b>Kammermann Thomas, Koch Jann, Wright Yuri M., Kreutner Wolfgang, Boulouchos Konstantinos</b> Hydrogen-enriched Methane Combustion. RENERG2 Final Conference, Empa Dübendorf, 10-30 ♣
	<b>Kammermann Thomas, Soltic Patrik, Kreutner Wolfgang, Bach Christian, Bleiner Davide, Boulouchos Konstantinos</b> Temporally-resolved Spark-Induced Breakdown Spectroscopy for Optical In-Cylinder Diagnostics. 4 <sup>th</sup> SCCER Mobility Annual Conference, ETH Zürich, 09-15 ◆
	<b>Kammermann Thomas, Soltic Patrik, Koch Jann, Wright Yuri M., Boulouchos Konstantinos</b> Generation of Turbulence in a RCEM towards Engine Relevant Conditions for Premixed Combustion Based on CFD and PIV Investigations. SAE 13 <sup>th</sup> International Conference on Engines & Vehicles, Capri, IT, 09-10 to 09-14 ♣
	<b>Liat Anthi, Barro Christophe, Parravicini Matteo, Liat Anthi, Boulouchos Konstantinos</b> Combustion and Emissions Investigations Using OME and Stoichiometric Operation in a Compression Ignition Engine . 21 ETH Conference on Combustion Generated Particles, ETH Zürich, 06-19 to 06-22 ♣
	<b>Liat Anthi, Goffé Bruno, Liat Anthi, Cuny Delphine, Skarpelis Nikolaos</b> Saliotite, ordered 1:1 cookeite, paragonite mixed layers, as record of high-P, very low-T metamorphism: a new occurrence. 12 <sup>th</sup> International Eclogite Conference, Åre, SE, 08-22 to 08-26 ◆ ○
	<b>Rojewski Jakub, Soltic Patrik, Klein Daniel, Hardy Gilles, Onorati Angelo, Manca di Vilhermosa Giacomo</b> Efficient Methane Engines for Light Commercial Vehicles. 4 <sup>th</sup> SCCER Mobility Annual Conference, ETH Zürich, 09-15 ◆
	<b>Soltic Patrik, Hardy Gilles, Suteekarn Ramita</b> Heavy Duty Diesel Engine Combustion with Fully Flexible EGR Configuration. Tagung Verbrennungsforschung in der Schweiz, ETH Zürich, 09-07 ◆
	<b>Soltic Patrik, Hilfiker Thomas, Hänggi Severin, Hutter Richard</b> Ignition- and combustion concepts for lean operated passenger car natural gas engines. Tagung Verbrennungsforschung in der Schweiz, ETH Zürich, 09-07 ♣ ○
<b>Soltic Patrik, Hilfiker Thomas, Hänggi Severin, Hutter Richard, Weissner Michael</b> Ignition- and combustion concepts for lean operated passenger car natural gas engines. 12. Tagung Gasfahrzeuge, Stuttgart, DE, 10-24 to 10-25 ♣ ○	
<b>Materials for Energy Conversion</b>	<b>Battaglia Corsin</b> Carrier-selective oxide contacts for silicon and III-V solar cells. King Abdullah University of Science and Technology, Spring Seminar Series , Jeddah, SA, 04-25 ♣ ○
	<b>Battaglia Corsin</b> Towards high-power solid-state batteries. King Abdullah University of Science and Technology, Spring Seminar Series, Jeddah, SA, 04-27 ♣ ○
	<b>Battaglia Corsin</b> Novel solid-state electrolytes in the class of complex hydrides with lithium ion conductivities near liquid electrolytes. 231 <sup>st</sup> ECS Meeting, New Orleans, US, 04-30 ♣ ○
	<b>Battaglia Corsin</b> 21 <sup>st</sup> International Conference on Solid State Ionics, Padua, IT, 06-18 to 06-23 ■
	<b>Battaglia Corsin</b> Toward high-power all-solid-state batteries. Seminar at ETH DMATL, Zürich, 08-14 ♣ ○
	<b>Battaglia Corsin</b> Empa-AIST workshop, Kansai, JP, 10-09 to 10-12 ■
	<b>Battaglia Corsin</b> Research on Batteries and Thermoelectrics. Empa-AIST workshop, Kansai, JP, 10-11 ♣ ○
	<b>Battaglia Corsin</b> Impact of ion-ion correlations on the analysis of sodium-ion conductivity in b''-Al2O3 electrolytes . ZEBRA Battery Meeting, Meiringen, 10-16 to 10-17 ♣
<b>Battaglia Corsin</b> BFE Trendwatching Meeting Waste Heat Recovery 2017 at Empa, Dübendorf, 10-26 ■	

<b>Battaglia Corsin</b> Stationary Renewable Energy Storage by Batteries. Workshop Practical Renewable Energy Storage, Empa & Novaton, Dübendorf, 10-31 🌿 ○
<b>Battaglia Corsin</b> Materialforschung für die Energiewende. Naturforschende Gesellschaft Bern, Bern, 11-21 🌿 ○
<b>Battaglia Corsin</b> Towards high-power solid-state batteries. Seminar at Helmholtz Institute Ulm, Ulm, DE, 2018-02-21 🌿 ○
<b>Battaglia Corsin</b> Der Super-Akku. European Power Network, Alpiq, Zürich, 2018-02-23 🌿 ○
<b>Bay Marie-Claude</b> Deciphering the influence of microstructure and crystal structure on the ion conductivity of Na-β"-alumina. 15 <sup>th</sup> Conference & Exhibition of the European Ceramic Society (ECerS 2017), Budapest, HU, 07-09 to 07-13 🌿
<b>Bay Marie-Claude</b> Tailoring the ionic conductivity of Na-beta"-alumina electrolytes. ZEBRA Battery Meeting, Meiringen, 10-16 to 10-17 🌿
<b>Bay Marie-Claude</b> student participation. SCCER School 2017 – Shaping the Energy Transition, Engelberg, 10-17 to 10-20 ♦
<b>Bay Marie-Claude</b> Enhancing Na+ conductivity in β"-alumina battery electrolytes by microstructure and phase control. Empa PhD Symposium, Dübendorf, 11-13 🌿
<b>Duchêne Léo</b> A highly stable closo-borate solid-state electrolyte for all-solid-state sodium-ion batteries. 21 <sup>th</sup> International Conference on Solid State Ionics, Padua, IT, 06-18 to 06-23 🌿
<b>Duchêne Léo</b> A highly stable closo-borate solid-state electrolyte for all-solid-state sodium-ion batteries . 21 <sup>th</sup> International Conference on Solid State Ionics, Padua, IT, 06-18 to 06-23 🌿
<b>Duchêne Léo</b> SCCER Heat and Electricity Storage 5 <sup>th</sup> Symposium. SCCER School 2017 – Shaping the Energy Transition, Engelberg, 10-17 to 10-20 ♦
<b>Duchêne Léo</b> A stable 3V all-solid-state sodium-ion battery based on a closo-borate electrolyte. Empa PhD Symposium, Dübendorf, 11-13 ♦
<b>Elsa Roedern</b> Magnesium ethylenediamine borohydride as solid-state electrolyte for magnesium batteries. 231 <sup>st</sup> ECS Meeting, New Orleans, US, 05-28 to 06-01 🌿
<b>Elsa Roedern</b> Magnesium borohydride complexes as solid-state electrolytes for Magnesium batteries . 21 <sup>th</sup> International Conference on Solid State Ionics, Padua, IT, 06-18 to 06-23 🌿 ○
<b>Heinz Meike</b> Microstructural and phase design of Na-beta"-alumina electrolytes for sodium metal halide batteries. 21 <sup>th</sup> International Conference on Solid State Ionics, Padua, IT, 06-18 to 06-23 🌿
<b>Heinz Meike</b> Reliable beta"-alumina ceramics as solid electrolytes for Na-batteries. SINTEF Workshop: High Temperature Batteries for Stationary Energy Storage, Trondheim, DE, 09-19 to 09-21 🌿
<b>Heinz Meike</b> Microstructure and phase control of beta"-alumina ceramic electrolytes for sodium salt batteries. ZEBRA Battery Meeting, Meiringen, 10-16 to 10-17 🌿
<b>Ju Wenbo</b> Developments for alkaline electrolysis: From materials to laboratory electrolysis. EFCF 2017, Luzern, 07-04 to 07-07 ♦
<b>Kühnel Ruben-Simon</b> Complex hydride solid-state electrolytes for Li, Na and Mg batteries. Seminar at Tongji University , Shanghai, CN, 04-18 🌿 ○
<b>Kühnel Ruben-Simon</b> Complex hydride solid-state electrolytes for Li, Na and Mg batteries. Seminar at Hong Kong Polytechnic University, Hong Kong, CN, 04-25 🌿 ○
<b>Kühnel Ruben-Simon</b> Complex Hydride-Based Solid-State Electrolytes. Energy Storage Innovations Europe (IDTechEx Show), Berlin, DE, 05-10 to 05-11 🌿 ○
<b>Kühnel Ruben-Simon</b> Aluminum current collectors for high-voltage aqueous supercapacitors. 5 <sup>th</sup> International Symposium on Enhanced Electrochemical Capacitors, Jena, DE, 07-10 to 07-14 🌿



## Materials for Energy Conversion

### Kühnel Ruben-Simon

Aqueous electrolytes for batteries and supercapacitors. 232<sup>nd</sup> ECS Meeting , National Harbor, US, 10-01 to 10-05 🍀 ○

### Kühnel Ruben-Simon

Complex hydride solid-state electrolytes. 232<sup>nd</sup> ECS Meeting , National Harbor, US, 10-01 to 10-05 🍀

### Landmann Daniel

Thermoelectric On-Board Power Generation from Exhaust Heat. BFE Trendwatching Meeting Waste Heat Recovery 2017 at Empa, Dübendorf, 10-26 🍀 ○

### Pagani Francesco

Epitaxial vs polycrystalline Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> thin-film battery anodes and the role of grain boundaries on Li-ion conductivity. 21<sup>th</sup> International Conference on Solid State Ionics, Padua, IT, 06-18 to 06-23 🍀

### Pagani Francesco

Epitaxial thin-film battery anodes and the role of crystallographic orientation on Li-ion conductivity. Annual meeting of the Swiss Crystallographic Society, Genf, 09-12 🍀

### Pagani Francesco

student participation. SCCER School 2017 – Shaping the Energy Transition, Engelberg, 10-17 to 10-20 🍀

### Pagani Francesco

Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> thin-film battery anodes and the role of crystallographic orientation on Li-ion conductivity. Empa PhD Symposium, Dübendorf, 11-13 🍀

### Reber David

High-voltage aqueous supercapacitors based on NaTFSI. 5<sup>th</sup> International Symposium on Enhanced Electrochemical Capacitors, Jena, DE, 07-10 to 07-14 🍀

### Reber David

student participation. SCCER School 2017 – Shaping the Energy Transition, Engelberg, 10-17 to 10-20 🍀

### Reber David

A High-Voltage Aqueous Electrolyte for Sodium-Ion Batteries . Empa PhD Gathering, Dübendorf, 10-18 🍀 ○

### Reber David

High-voltage aqueous supercapacitors based on NaTFSI. Empa PhD Symposium, Dübendorf, 11-13 🍀

### Remhof Arndt

Towards high-power all-solid-state batteries. King Abdullah University of Science and Technology, Spring Seminar Series, Jeddah, SA, 04-27 🍀 ○

### Remhof Arndt

Novel Complex Hydrides as stable, room temperature solid state electrolytes. E-MRS Spring 2017, Strasbourg, FR, 05-22 to 05-26 🍀

### Remhof Arndt

An all-solid-state half-cell battery with lithium amide-borohydride solid-state electrolyte . 21<sup>st</sup> International Conference on Solid State Ionics, Padua, IT, 06-18 to 09-23 🍀

### Remhof Arndt

Novel complex hydrides as solid-state electrolytes for battery applications . Institute Seminar at the Institute for Energy technology (IFE), Kjeller, NO, 06-29 🍀 ○

### Roedern Elsa

Magnesium Ethylenediamine Borohydride As Solid-State Electrolyte for Magnesium Batteries. 231<sup>st</sup> ECS Meeting, New Orleans, US, 05-28 to 06-01 🍀

### Roedern Elsa

Magnesium Borohydride Complexes As Solid-State Electrolyte for Magnesium Batteries. 21<sup>th</sup> International Conference on Solid State Ionics, Padua, IT, 06-18 to 06-23 🍀 ○

### Stilp Evelyn

Industrial On-Site Lithium-Ion Cell Production Technology Seminar, Itzehoe, DE, 04-24 to 04-25 ■

### Stilp Evelyn

Investigations for a full cell Li(Ni<sub>1</sub>, 3Mn<sub>1</sub>, 3Co<sub>1</sub>, 3)O<sub>2</sub> (NMC) benchmark. SCCER Heat and Electricity Storage 5<sup>th</sup> Symposium, Villigen, 05-10 🍀

### Tang Yinglu

Ni-interstitials making strong influence on thermoelectric properties of TiNiSn Half Heuslers. 2<sup>nd</sup> Stuttgart Workshop on Thermoelectrics, Stuttgart, DE, 08-08 🍀 ○

### Vidal Laveda Josefa

Investigations for a full cell Li(Ni<sub>1</sub>, 3Mn<sub>1</sub>, 3Co<sub>1</sub>, 3)O<sub>2</sub> (NMC) benchmark. SCCER Heat and Electricity Storage 6<sup>th</sup> Symposium, Martigny, 10-25 🍀

### Vogt Ulrich

Porous CeO<sub>2</sub> Ceramics for Energy Conversion Systems. 12<sup>th</sup> PACRIM Conference on Ceramics and Glas Technology, Waikoloa Hawaii , US, 05-21 to 05-26 ▲ ○

### Vogt Ulrich

Co<sub>2</sub> redoxreaction on CeO. University of Loeben, Prof. Werner Sitte, Loeben, AT, 06-08 to 06-10 🍀 ○

<b>Materials for Energy Conversion</b>	<b>Vogt Ulrich</b> Small-scale systems for alkaline water electrolysis. International Conference on Eletrolysis, Kopenhagen, DK, 06-13 🍄
	<b>Vogt Ulrich</b> EFCF 2017, Luzern, 07-05 to 07-07 ▲
<b>Technology and Society</b>	<b>Vogt Ulrich</b> SOFC Materials development and new generation ZEBRA Batteries, are there similarities?. ZEBRA Battery Meeting, Meiringen, 10-16 to 10-17 🍄 ○
	<b>Adam Véronique</b> A comparison of two methods for probabilistic modelling of ENM emissions during their life cycle. 65 <sup>th</sup> LCA Discussion Forum, ETH Zürich, 05-24 🍄
	<b>Adam Véronique, Nowack Bernd</b> Flows of engineered nanomaterials to waste treatment. NanoSafe Conference, Grenoble, FR, 2016-10-07 to 2016-10-10 🍄
	<b>Adam Véronique, Nowack Bernd</b> Flows of engineered nanomaterials to waste treatment. NanoImpact Conference, Monte Verita, 03-12 to 03-17 🍄
	<b>Adam Véronique, Nowack Bernd</b> Flows of engineered nanomaterials through waste treatment to the environment. SETAC Conference, Brussels, BE, 05-07 to 05-11 🍄
	<b>Adam Véronique, Nowack Bernd</b> Probabilistic assessment of the ENM flows to waste treatment and the environment. Sustainable Nanotechnology Organization Conference, Los Angeles, US, 11-05 to 11-07 🍄
	<b>Beloin-Saint-Pierre Didier, Turner David, Cox Brian, Bauer Christian, Gauch Marcel, Hischier Roland</b> Prioritising LCA data updates through contribution and discernibility analysis: A case study of the Swiss transport sector. LCM 2017, Luxembourg city, LU, 09-04 to 09-06 ◆
<b>Böni Heinz, Erazo Edgar</b> Success stories from E-Waste Management in Latin-America: The cases Colombia and Perú. International Electronics Recycling Congress, Salzburg, AT, 01-18 to 01-19 🍄 ○	
<b>Böni Heinz, Méndez Sandra</b> Successful technology cooperation in e-waste management between and Colombia. Universität St. Gallen – Jornada Colombiana, St. Gallen, 03-28 🍄 ○	
<b>Böni Heinz, Méndez Sandra, Böni Heinz, Hernandez Carlos, Camacho Angel, Lopez Andrea, Schluep Mathias</b> Systemic policy design for a more sustainable WEEE Management: The case of Colombia. World Resources Forum, Geneva, 10-24 to 10-25 🍄	
<b>Gasser Michael</b> Brominated Flame Retardants (BFRs) and the Stockholm convention – Background, guidance and implementation with the example of e-waste. International POP Workshop, Bogota, CO, 10-12 to 10-13 🍄 ○	
<b>Gasser Michael</b> E-waste plastic recycling workshop. International POPs Workshop, Bogota, CO, 10-12 to 10-13 🍄 ○	
<b>Gasser Michael</b> Improved plastics recycling and disposal of BFR – International achievements and case studies. International POPs Workshop, Bogota, CO, 10-12 to 10-13 🍄 ○	
<b>Haarman Arthur, Beloin Saint-Pierre Didier, Hischier Roland, Salieri Beatrice, Turner David</b> 65 <sup>th</sup> LCA Discussion Forum – How suitable is LCA for Nanotechnology assessment?, Zurich, 05-24 ■ ○	
<b>Haarman Arthur, Gasser Michael, Sinha-Khetriwal Deepali, Widmer Rolf, Wäger Patrick, Schluep Mathias</b> Cleaning the WEEE plastic loop in the Indian informal sector: Lessons from an ongoing development cooperation project. SETAC Europe 27 <sup>th</sup> Annual Meeting, Brussels, BE, 05-10 🍄 ○	
<b>Haarman Arthur, Hischier Roland, Widmer Rolf</b> Environmental assessment of the recovery of Scarce Technology Metals from End-of-Life Vehicles. LCM 2017, Luxembourg City, LU, 09-04 ◆ ○	
<b>Hilty Lorenz</b> ICTs and Sustainable Development: Challenges and Perspectives. Internet of Things, Energy Awareness and Sustainability, Bolzano, IT, 07-10 to 07-11 🍄 ○	
<b>Hilty Lorenz</b> Systems Thinking: Modeling the Dynamics of ICT and Sustainability. ICT4S SummerSchool, University of Leiden, NL, 07-31 to 08-04 ■ ○	
<b>Hilty Lorenz</b> Software and Sustainability: A Look Beyond Use Phase Energy. Symposium: Sustainability – From Grey t Green Software Products, Utrecht, NL, 09-12 🍄 ○	
<b>Hilty Lorenz</b> Scenarios of the Internet of Things: Implications for Materials and Energy Use. Entretiens Jacques Cartier. Towards a Sustainable Digital Society: From Couds to Connected Objects., Montreal (virtuell zur Vermeidung von CO2), CA, 10-17 to 10-18 🍄 ○	

<b>Technology and Society</b>	<b>Hilty Lorenz</b> Examples of Multiple-Site Conferences and Video Lectures. IARU Virtual Conference on University Air Miles Reduction, Zurich, 10-30 to 10-31 🍀 ○
	<b>Hilty Lorenz</b> Digitalisierung als Chance für den Klimaschutz. Was fehlt der Schweizer Klimapolitik?, Zürich, 11-08 🍀 ○
	<b>Hilty Lorenz, Guldner Achim, Kern Eva, Naumann Stefan</b> Energy Consumption and Hardware Utilization of Standard Software: Methods and Measurements for Software Sustainability. EnviroInfo 2017, Luxemburg, LU, 09-13 to 09-15 🍀
	<b>Hilty Lorenz, Höjer Mattias</b> Four Propositions for the European Roundtable Structuring Research on Sustainable Digital Environments. European Roundtable Sustainable Digital Environments, Bonn, DE, 09-19 🍀 ○
	<b>Hilty Lorenz, Lubberger Ariane</b> Technologies, Resources, and Substitution: An Approach to Support the Discourse on Technological Innovations with a Focus on Sustainability. EnviroInfo 2017, Luxemburg, LU, 09-13 to 09-15 🍀
	<b>Hilty Lorenz, Reynolds Laura</b> Dirty Products - Responsible Consumption: How Digitisation Changes the Role of the Consumer. European Forum Alpbach, Alpbach, AT, 08-16 to 08-22 ▲ ○
	<b>Hilty Lorenz, Reinhard Jürgen</b> Regionalized LCI modelling: The Case of Regionalized Cotton Datasets. EnviroInfo 2017, Luxemburg, LU, 09-13 to 09-15 🍀
	<b>Hincapie Ingrid, Claudia Som</b> Nano überall – Chancen und Risiken der Nanotechnologie. Forum Zeitfragen, Basel, 04-28 🍀 ○
	<b>Hischier Roland</b> Ecological consequences from the use of engineered nanomaterials in consumer goods – a holistic view with support of life cycle assessment framework. Environmental Nanotechnology Gordon Research Conference. The Next Generation of Nanotechnology: Materials, Applications, and Implications", Stowe, VT, US, 06-18 to 06-23 🍀 ○
	<b>Hischier Roland</b> Empa's Technology & Society Lab. Knowledge Fair within the ETH Week "Manufacturing the Future", Zürich, 09-12 ◆ ○
	<b>Hischier Roland, Salieri, Beatrice</b> (i) Integrating Life Cycle Assessment into the Safe-by-Design (SbD) Concept; and (ii) LICARA Nanoscan and its application – A case study from the LICARA project dealing with application of Multi-walle. NanoReg2 Workshop I, 2017, Zürich Flughafen, 01-18 to 01-19 🍀 ○
	<b>Loevik Amund N.</b> ProSUM – Prospecting Secondary raw materials in the Urban mine and Mining wastes. MinFuture Workshop, Vienna, AT, 06-08 to 06-09 🍀 ○
	<b>Loevik Amund N., Restrepo Elette</b> ProSUM – Prospecting Secondary raw materials in the Urban mine and Mining wastes, EVA – Elektronik Verwertung Altautos – Recycling of rare technological metals from end-of-life vehicles (ELVs). Young researcher seminar on Material Flow Analysis and sustainable material cycles, Freiburg im Breisgau, DE, 06-12 to 06-13 🍀
	<b>Mader Clemens</b> Wissenschaft in gesellschaftlicher Verantwortung. Universitäten als Schrittmacher?. Transforming our World: Nachhaltigkeit an der Freien Universität Berlin, Freie Universität Berlin, DE, 07-18 🍀 ○
	<b>Mader Clemens, Anne Zimmermann, Karl Herweg, Sandra Wilhelm, Ueli Nagel,</b> Transformative Learning: A Space for innovation at Universities. SD-Universities Day 2017 – Agenda 2030, Universität Basel, 04-07 🍀
	<b>Mader Clemens, Ruth Förster</b> Transformative Learning contributing to transdisciplinarity in higher education for sustainable development. International Transdisciplinarity Conference 2017, Leuphana University Lüneburg, DE, 09-11 to 09-15 🍀
	<b>Matasci Cecilia</b> World Resources Forum 2017 (Scientific Sessions), Geneva, 10-24 to 10-25 ■
	<b>Matasci Cecilia, Gauch Marcel, Böni Heinz, Ruehlin Viola</b> Co-mobility meets circular economy: the resource perspective. Co-mobility meets circular economy, Bern, 09-07 to 09-08 🍀 ○
	<b>Matasci Cecilia, Gauch Marcel, Böni Heinz, Rühlin Viola</b> Material Flow Analysis of Mobility in Switzerland. World Resources Forum 2017, Geneva, 10-24 to 10-25 🍀
	<b>Nowack Bernd</b> Meeting the needs for released nanomaterials required for further testing – the SUN approach. New tools and approaches for nanomaterial safety assessment, Malaga, ES, 02-07 to 02-09 🍀
	<b>Nowack Bernd</b> Probabilistic methods for nanomaterial exposure and risk modeling. Society for Risk Analysis Policy Forum, Venice, IT, 03-01 to 03-03 🍀

## Technology and Society

### Nowack Bernd

Procedures for the production and use of released and aged nanomaterials for further testing. NanoImpact, Monte Verita, 03-12 to 03-17 🍄 ○

### Nowack Bernd

"NanoImpact", Monte Verita, 03-12 to 03-17 ■

### Nowack Bernd

Mögliche Risiken von künstlichen Nanopartikeln im Wasser. Aqua360 – Der Schweizer Wasserkongress von SVGW und VSA,, Lugano, 03-30 🍄 ○

### Nowack Bernd

Environmental Risk Assessment of Engineered Nanomaterials. 8<sup>th</sup> International Symposium on Nanotechnology, Occupational and Environmental Health, NanOE2017, Elsinore, DK, 05-29 to 06-01 🍄 ○

### Salieri Beatrice

LCA DF 65: How suitable is LCA for Nanotechnology Assessment? Overview of current methodological pitfalls and potential solutions , ETH, 05-24 ▲

### Salieri Beatrice, Hischier Roland

Impact Assessment of releases of Engineered Nanomaterial within the LCA methodology: state of the art and next research steps. . NanoImpact Conference, Monte Verita, 03-12 to 03-17 🍄

### Salieri Beatrice, Hischier, Roland

(i) Integrating Life Cycle Assessment into the Safe-by-Design (SbD) Concept; and (ii) LICARA Nanoscan and its application – A case study from the LICARA project dealing with application of Multi-walle. NanoReg2 Workshop II, 2017, Zürich, 10-31 to 11-01 🍄 ○

### Schmutz Mélanie, Wick Peter, Som Claudia

Applying Safer-by-Design concept with polymeric nanobiomaterials for drug delivery. Nanosafety 2017, Saarbrücken, DE, 10-11 to 10-13 ◆

### Som Claudia

Nanohouse – Lebenszyklusaspekte in der Anwendung von Fassadenfarben. FachDialog Chancen und Risiken der Anwendung von Nanotechnologien im Baubereich, Berlin, DE, 2016-11-23 🍄 ○

### Som Claudia

Safe-by-design and life cycle assessment of selected nanoapplications. 2<sup>nd</sup> Joint Symposium on Nanotechnology, Hannover, DE, 11-06 to 11-07 🍄 ○

### Som Claudia

Nachhaltigkeit im Textil . Subitex-Workshop , St. Gallen, 11-20 🍄 ○

### Thiébaud Esther, Lorenz Hilty, Mathias Schlupe, Martin Faulstich

Where do all the resources go? Stocks and flows of indium and neodymium connected to the use of electronic equipment in . 7. Wissenschaftskongress Abfall- und Ressourcenwirtschaft , Aachen, DE, 03-16 to 03-17 🍄

### Turner David

Session 8: A life cycle perspective, Geneva, 10-24 to 10-25 ▲

### Turner David, Hischier Roland, Haarman Arthur

Cradle-to-gate inventories of primary metals: update and expansion of theecoinvent database. SETAC Europe 27<sup>th</sup> Annual Meeting, Brussels, BE, 05-08 to 05-12 🍄

### Turner David, Haarman Arthur, Hischier Roland

Life cycle assessment of gold production: comparison of primary and secondary supply routes. EUROMAT 2017 Congress, Thessaloniki, GR, 09-17 to 09-18 🍄

### Turner David, Haarman Arthur, Hischier Roland

Life cycle assessment of copper production: comparison of primary and secondary supply routes. World Resources Forum 2017, Geneva, 10-24 to 10-25 🍄

### Turner David, Salieri Beatrice, Hischier Roland, Beloin-Saint-Pierre Didier

65<sup>th</sup> LCA Discussion Forum – How suitable is LCA for Nanotechnology assessment? Overview of current methodological pitfalls and potential solutions, Zurich, 05-24 ■

### Turner David, Som, Claudia, Hischier, Roland, Piccinno Fabiano

POROUS4APP M12 Project Meeting, Zurich, 02-27 to 02-28 ■

### Turner David, Som Claudia, Piccinno Fabiano, Hischier Roland

WP6: NANO-SAFETY AND ENVIRONMENTAL EVALUATION. M18 Meeting – General Assembly number 4, York, GB, 10-03 to 10-04 🍄

### Wäger Patrick, Susanne Rotter (TU Berlin)

Improving and Building on the Data: Challenges and Opportunities for Characterising Products and Waste. Raw Materials Week 2017 satellite event "Prospecting Secondary Raw Materials in the Urban Mine and Mining Waste (ProSUM)", Brussels, BE, 11-10 🍄 ○

### Wäger Patrick

Recycling of electronic waste – a Swiss perspective. 2<sup>nd</sup> Green and Sustainable Chemistry Conference, Berlin, DE, 05-14 to 05-17 🍄 ○

### Wenger Delphine, Bernd Nowack

Flux de plastique vers l'environnement:Microplastiques et macroplastiques. LE FABULEUX DESTIN DES PLASTIQUES, Yverdon-les-Bains, 10-31 to 11-02 🍄 ○

<b>Technology and Society</b>	<p><b>Wenger Delphine, Paul Scheeder, Bernd Nowack</b> Mapping the flows of seven plastics through society: A first step towards building an environmental release model for plastics. SETAC Europe, Brussels, BE, 05-07 to 05-11 ◆</p>
	<p><b>Wigger Henning, Nowack, Bernd</b> Next steps in environmental risk assessment of engineered nanomaterials by considering material-specific properties. SRA Policy Forum, Venice, IT, 03-01 to 03-03 🍄</p>
	<p><b>Wigger Henning, Nowack, Bernd</b> Next steps in environmental risk assessment of engineered nanomaterials by considering material-specific properties. NanoImpact Conference, Monte Veritas, 03-12 to 03-17 🍄</p>
	<b>Functional Materials</b>
<b>Advanced Fibers</b>	<p><b>Amberg Martin, Hanselmann Barbara, Weder Markus, Hegemann Dirk</b> New prospects for medical textiles: Continuous sputter deposition on fibers. SVC-TechCon, Providence RH, US, 05-01 to 05-04 🍄</p>
	<p><b>Amberg Martin, Schmid Michel</b> Befeuchtete Elektroden zur Langzeit-EKG-Messung. Workshop-Massgeschneiderte Oberflächen an der Grenze zwischen Nass und Trocken, Empa St. Gallen, 06-01 🍄 ○</p>
	<p><b>Gaan Sabyasachi</b> Transformation of DOPO to useful Flame Retardant Additives. FRPM 2017, Manchester, UK, GB, 07-03 to 07-06 🍄</p>
	<p><b>Gaan Sabyasachi</b> Studies on Thermolysis Pathways of Organophosphorus Compounds under Inert and Oxidative Conditions. International Forum on the Frontier of Fire Safety Materials, Hefei, CN, 10-24 to 10-26 🍄 ○</p>
	<p><b>Gaan Sabyasachi</b> Dopo-Derivatives and some useful Applications. Seminar In BIT, BIT, Beijing, CN, 10-31 🍄 ○</p>
	<p><b>Gaan Sabyasachi</b> Dopo-Derivatives and some useful Applications. Lecture , Beijing Institute of Technology, Beijing, CN, 10-31 🍄 ○</p>
	<p><b>Gaan Sabyasachi, Liang Shuyu</b> Studies on thermolysis pathways of organophosphorus compounds under inert and oxidative conditions. 2017 International Seminar on the Frontier of Fire Safety Materials, Hefei, CN, 10-26 🍄 ○</p>
	<p><b>Gaan Sabyasachi, Liang Shuyu</b> Investigation of thermolysis pathways of organophosphorus compounds: key to understanding the gas phase flame inhibition. AOFSM2017, Schenzhen, CN, 10-27 to 10-30 🍄 ○</p>
	<p><b>Gaan Sabyasachi, Liu Xiu, Salmeia Khalifah</b> Recent Development in Smoke and Toxicity Suppression Strategies for Polyurethane Based Materials. Flame Conference 2017, BCC, Boston, US, 06-11 to 06-14 🍄 ○</p>
	<p><b>Hegemann Dirk</b> Massgeschneiderte Oberflächen an der Grenze zwischen Nass und Trocken, Empa St. Gallen, 06-01 ■</p>
	<p><b>Hegemann Dirk</b> Der Nutzen von Wasser – das Potential von Feuchtigkeit bei funtionalisierten Textilien. Innovation Day, Dübendorf, 08-24 🍄 ○</p>
	<p><b>Hegemann Dirk</b> Subsurface Effects in Plasma Coatings by Means of Vertical Chemical Gradients. 8<sup>th</sup> INTERNATIONAL CONFERENCE ON INNOVATIONS IN THIN FILM PROCESSING AND CHARACTERIZATION (ITFPC-17), Nancy, FR, 10-23 to 10-27 🍄 ○</p>
	<p><b>Hegemann Dirk</b> Exploring Plasma Coatings Comprising Vertical Chemical Gradients and Multilayers for Bio-medical Applications. 64<sup>th</sup> International Symposium of the American Vacuum Society (AVS), Tampa, US, 10-29 to 11-03 🍄 ○</p>
	<p><b>Hegemann Dirk</b> Thin Film Architecture Affecting Biomolecule Adsorption. 3<sup>rd</sup> International Workshop on Plasma Interfaces for Healthcare and Industry , Orleans, FR, 11-29 to 12-01 🍄 ○</p>
	<p><b>Hegemann Dirk, Amberg Martin</b> Functionalization of Fibers Based on Continuous Plasma Treatment. The Fiber Society's Fall 2017 Technical Meeting and Conference, Athens, US, 11-08 to 11-10 🍄 ○</p>
	<p><b>Hegemann Dirk, Amberg Martin, Rupper Patrick, Hanselmann Barbara, Weder Markus, Schmid Michel</b> Stable Textile Electrodes for Medical Textiles. Based on Continuous Sputter Deposition on Fibers. PT18 – Int. Conference on Plasma Technology, Göttingen, DE, 02-20 to 02-22 ◆</p>
	<p><b>Hegemann Dirk, Amberg Martin, Vandenbossche Marianne, Ren Qun, Damsir Hicham, Bourgeois Florian</b> Antibacterially Active Parylene Coatings. SSB+RM, St.Gallen, 05-17 to 05-18 ◆</p>
	<p><b>Hegemann Dirk, Blanchard Noémi, Bülbül Ezgi, Hocquard Nicolas, Heuberger Manfred</b> Hydration of Hydrophobic-to-Hydrophilic Plasma Polymer Films Affecting Protein Adsorption. International Symposium on Plasma Chemistry (ISPC23), Montreal, CA, 07-30 to 08-04 ◆</p>



<b>Advanced Fibers</b>	<b>Hegemann Dirk, Heuberger Manfred</b> Textile Applications Provided by Vertical Chemical Gradient Coatings. 56 <sup>th</sup> Man-made Fiber Congress (MFC), Dornbirn, AT, 09-13 to 09-15 🌿 ○
	<b>Hegemann Dirk, Nisol Bernhard, Watson Sean, Wertheimer Michael R.</b> Energy Conversion Efficiency in Low- and Atmospheric-Pressure Plasma Polymerization. International Symposium on Plasma Chemistry (ISPC23), Montreal, CA, 07-30 to 08-04 ◆
	<b>Hegemann Dirk, Vandenbossche Marianne, Dorst Johanna</b> Vertical Chemical Gradients. Enhance the Stability of Plasma Polymer Films. International Symposium on Plasma Chemistry (ISPC23), Montreal, CA, 07-30 to 08-04 🌿
	<b>Heuberger Manfred</b> Messing with water in new ways. Offsite Group Meeting of the Laboratory for Surface Science and Technology (LSST), ETHZ, Figueres, ES, 08-20 to 08-23 🌿 ○
	<b>Heuberger Manfred, Rudolf Hufenus, Andres Leal</b> Continuous thermoplastic fibers with a liquid core. Techtexsil Symposium, Frankfurt, DE, 05-09 to 05-12 🌿
	<b>Heuberger Manfred, Z. Zachariah, N.D. Spencer, R.M. Espinosa-Marzal</b> Hydrated ion instabilities in confined electrical double layers. 7 <sup>th</sup> International Colloids Conference, Sitges, ES, 06-18 to 06-21 🌿
	<b>Heuberger Manfred, Zachariah Zita, Spencer Nicolas D, Espinosa-Marzal Rosa Maria</b> Hydrated ion instabilities in confined electrical double layers. 7 <sup>th</sup> International Colloids Conference, Sitges, ES, 06-18 to 06-21 🌿
	<b>Hufenus Rudolf</b> Base Fiber Technologies for Smart Textiles. DManD Centre Seminar Series, Singapore University of Technology and Design, SG, 02-23 🌿 ○
	<b>Hufenus Rudolf</b> Advanced Fibers – Innovation by Combination of Materials. Department Seminar, National University of Singapore, SG, 02-24 🌿 ○
	<b>Hufenus Rudolf</b> Advanced Fibers – Innovation by Combination of Materials. Future Fibres Symposium, Deakin University, Geelong, AU, 02-27 to 02-28 🌿 ○
	<b>Hufenus Rudolf</b> Session "Smart Fibers and Textiles". Fiber Society Fall Conference, Athens, GA, US, 11-08 to 11-10 ▲ ○
	<b>Hufenus Rudolf, Barandun Gion</b> Textiler Leichtbau: Flüssigkeitsgefüllte Fasern im Einsatz. Swiss Textiles Innovation Day, Empa-Akademie, Dübendorf, 08-24 🌿 ○
	<b>Hufenus Rudolf, Leal A. Andrés</b> Continuous production of liquid-filled polymeric fibers and their potential applications. Man-made Fibers Congress, Kulturhaus Dornbirn, AT, 09-13 to 09-15 🌿 ○
	<b>Hufenus Rudolf, Leal A. Andrés, Heuberger Manfred</b> Enhanced damping of carbon fiber-reinforced composites by novel liquid-core fibers. Carbon Fibre Futures Conference, The Pier, Geelong, AU, 03-01 to 03-03 🌿 ○
	<b>Hufenus Rudolf, Leal A. Andrés, Heuberger Manfred</b> Enhanced damping of composites by novel liquid-core fibers. Textilsymposium armasuisse, Kursaal Bern, 03-15 🌿 ○
	<b>Hufenus Rudolf, Leal A. Andrés, Heuberger Manfred</b> Enhanced damping of composites by novel liquid-core fibers. The Fiber Society Spring Conference, RWTH Aachen, DE, 05-17 to 05-19 🌿
	<b>Hufenus Rudolf, Leal A. Andrés, Heuberger Manfred</b> Enhanced Damping of Carbon Fiber-Reinforced Composites by Novel Liquid-Core Fibers. Polymer Processing Society Conference, Cancun, MX, 12-10 to 12-14 🌿
	<b>Hufenus Rudolf, Reifler Felix A.</b> Keynote: Structural response of P3HB fibers to heat and stress. Polymer Processing Society Conference, Deutsche Hygienemuseum Dresden, DE, 06-26 to 06-30 🌿 ○
	<b>Hufenus Rudolf, Reifler Felix A.</b> New structural model for melt-spun P3HB fibers. Fiber Society Fall Conference, Athens, GA, US, 11-08 to 11-10 🌿 ○
	<b>Rupper Patrick, Heuberger Manfred</b> Zusammenarbeit in der Analytik anhand von konkreten Beispielen. Zusammenarbeit mit der Empa: Entwicklung innovativer Produkte mit Polymeren, Additiven und Beschichtungen, Empa, 11-16 ■
	<b>Rupper Patrick, Vandenbossche Marianne, Bernard Laetitia, Hegemann Dirk, Heuberger Manfred</b> Plasmapolymere mit vertikalen Gradienten: Charakterisierung und Eigenschaften. Massgeschneiderte Oberflächen an der Grenze zwischen Nass und Trocken, Empa, St.Gallen, 06-01 🌿
	<b>Rupper Patrick, Vandenbossche Marianne, Bernard Laetitia, Hegemann Dirk, Heuberger Manfred</b> Plasma Polymer Films Exhibiting Vertical Chemical Gradients. European Conference on Applications of Surface and Interface Analysis (ECASIA 17), Montpellier, FR, 09-24 to 09-29 🌿

<b>Advanced Fibers</b>	<p><b>Salmeia khalifah, Jovic Miljana, Ragaisiene Audrone, Rukuiziene Zaneta, Mikucioniene Daiva, Milasius Rimvydas, Gaan Sabyasachi</b> Effect of the Structure of Phosphorus Compounds on Flame Retardancy of Cellulose-Based Fibers. Fire Retardant Polymeric Material (FRPM17), Manchester, GB, 07-03 to 07-06 ◆</p>
	<p><b>Vandenbossche Marianne, Olivier Scholder, Laetitia Bernard, Patrick Rupper, Greta Faccio, Dirk Hegemann</b> Micro-patterned Plasma polymer film for biological applications. 23<sup>rd</sup> International Symposium on Plasma Chemistry (ISPC23), Montreal, CA, 08-31 to 08-04 ♣</p>
	<p><b>Yan Yurong, Lin Chao, Yu Kun, Zhu Ruitian, Hufenus Rudolf</b> Liquid core fibers for functional textiles. Fiber Society Fall Conference, Athens, GA, US, 11-08 to 11-10 ♣ ○</p>
	<p><b>Yan Yurong, Yang Suhan, Jiang Deyuan, Liu Xin, Hufenus Rudolf, Reifler Felix A.</b> Influence of Raw Material Properties on Swelling and Spinning Stability of Ultrahigh Molecular Weight Polyethylene Monofilaments. Polymer Processing Society Conference, Deutsches Hygienemuseum Dresden, DE, 06-26 to 06-30 ◆</p>
	<p><b>Yan Yurong, Zhang Wentao, Li Xiaochun, Zhu Ruitian, Zhang Peng, Hufenus Rudolf</b> Micro- and Nanoscale Polyester-Based Hybrid Acoustic Insulation Materials. Fiber Society Spring Conference, RWTH Aachen, DE, 05-17 to 05-19 ◆</p>
<b>Applied Wood Materials</b>	<p><b>Antonini Carlo, Bong Lee Jae, Dos Santos Salomé</b> Wetting, dewetting and bouncing on a viscoelastic bitumen surface. 91<sup>st</sup> ACS Colloid &amp; Surface Science Symposium, New York, NY, US, 07-09 to 07-12 ♣</p>
	<p><b>Antonini Carlo, Geiger Thomas, Zimmermann Tanja</b> Development of microfibrillated cellulose-based porous materials in consideration of industrial relevant processes. CTI Micro-Nano Event 2017, Fribourg, 06-01 ◆</p>
	<p><b>Antonini Carlo, Jae Bong Lee, Salomé dos Santos</b> Wetting, dewetting and bouncing on a viscoelastic bitumen surface. DIPSI Workshop, Bergamo, IT, 05-24 to 05-25 ♣</p>
	<p><b>Antonini Carlo, Orsolini Paola, Stojanovic Ana, Caseri Walter R., Zimmermann Tanja</b> Enhanced superhydrophobicity through polysiloxane nanofilaments on nanofibrillated cellulose materials. 91<sup>st</sup> ACS Colloid &amp; Surface Science Symposium, New York, NY, US, 07-09 to 07-12 ♣</p>
	<p><b>Antonini Carlo, Orsolini Paola, Stojanovic Ana, Caseri Walter R., Zimmermann Tanja</b> Enhanced superhydrophobicity through polysiloxane nanofilaments on nanofibrillated cellulose materials. EU ITN "Complex Wetting Phenomena" (CoWet, <a href="http://cowet.eu">http://cowet.eu</a>), Darmstadt, DE, 11-23 to 11-24 ♣ ○</p>
	<p><b>Burgert Ingo</b> Wie kann Materialforschung am Holz den Holzbau unterstützen?. Holzbau heute- effizient, geschützt und dauerhaft, Weinfelden, 10-25 ♣ ○</p>
	<p><b>Burgert Ingo, Segmehl Jana, Keplinger Tobias, Frey Marion</b> Wood based hierarchical scaffolds for functional materials . Hereaus Workshop DPG, Bad Honnef, DE, 05-28 to 05-31 ♣ ○</p>
	<p><b>Cabane Etienne</b> Functional lignocellulosic materials: engineering smart bio-hybrids from a natural anisotropic scaffold. 5<sup>th</sup> International conference on multifunctional, hybrid and nanomaterials, Lisbon, PT, 03-06 to 03-10 ♣ ○</p>
	<p><b>Cabane Etienne</b> Functional lignocellulosic materials: Engineering smart bio-hybrids from a natural anisotropic scaffold . 253<sup>rd</sup> American Chemical Society. NATIONAL MEETING &amp; EXPOSITION, San Francisco, US, 04-02 to 04-06 ♣</p>
	<p><b>De Freitas Siqueira Gilberto</b> 3D printing of cellulose nanocrystals and nanocomposites. 253<sup>rd</sup> ACS National Meeting , San Francisco, CA, US, 04-02 to 04-06 ♣ ○</p>
	<p><b>Grönquist Philippe, Wittel Falk K., Rüggeberg Markus</b> Predicting the actuation of large-scale smart wooden bilayer systems. 3<sup>rd</sup> euro intelligent materials 2017, Kiel, DE, 06-07 to 06-09 ♣</p>
	<p><b>Grönquist Philippe, Wittel Falk K., Rüggeberg Markus</b> Upscaling of self-actuated wooden bilayers. 7<sup>th</sup> GACM Colloquium on Computational Mechanics, Stuttgart, DE, 10-11 to 10-13 ♣</p>
	<p><b>Guo Huizhang</b> Wood surface protection by transparent inorganic coatings. 13<sup>th</sup> ANNUAL MEETING OF THE NORTHERN EUROPEAN NETWORK FOR WOOD SCIENCE AND ENGINEERING (WSE 2017), Copenhagen, DK, 09-28 to 09-29 ♣</p>
	<p><b>Keplinger Tobias, Burgert Ingo</b> Development of Green Smart Hybrid Materials based on the Renewable Resource Wood. 8<sup>th</sup> International Conference on Green and Sustainable Chemistry, Melbourne, AU, 07-23 to 07-26 ♣</p>
	<p><b>Keplinger Tobias, Burgert Ingo, Casdorff Kirstin</b> The potential of Raman spectroscopy and Atomic Force Microscopy for the analysis of modified wood. IAWS Meeting 2017, Bali, ID, 09-26 to 09-28 ♣</p>
	<p><b>Keplinger Tobias, Merk Vivian, Segmehl Jana, Burgert Ingo</b> Raman Spectroscopy Imaging – a versatile tool for the analysis of functionalized lignocellulosic materials. Raman Workshop ETHZ, Zürich, 06-06 to 06-08 ♣ ○</p>

<b>Applied Wood Materials</b>	<p><b>Keplinger Tobias, Segmehl Jana, Merk Vivian, Burgert Ingo</b> The potential of Raman spectroscopy for the analysis of wood-based hybrid materials. WE-Heraeus-Seminar: Bio-inspired, Nano- and Microstructured Surfaces: New Functionality by Material and Structure, Bad Honnef, DE, 05-29 to 05-31 ♦</p>
	<p><b>Kostic Sanja</b> Click-Thiols as an approach to implement novel functionalities within bio-derived scaffolds. 253<sup>rd</sup> American Chemical Society. NATIONAL MEETING &amp; EXPOSITION, San Francisco, US, 03-31 to 04-06 ♣</p>
	<p><b>Kostic Sanja</b> Click-Thiols as an approach to implement novel functionalities within bio-derived scaffolds. 8<sup>th</sup> International Conference on Green and Sustainable Chemistry, Melbourne, AU, 07-23 to 07-26 ♣</p>
	<p><b>Lämmlein Sarah</b> Das Zusammenspiel von Lack und Violine. Xylorama, Fachhochschule Bern, Biel, 04-20 ♣</p>
	<p><b>Lämmlein Sarah, Mannes David, Schwarze Francis, Burgert Ingo, Sedighi Gilani Marjan</b> Combined Experimental and Numerical Investigation of Vibro-Mechanical Properties of Varnished Wood for Stringed Instruments. 35<sup>th</sup> IMAC, A Conference and Exposition on Structural Dynamics 2017, Los Angeles, US, 01-30 to 02-02 ♣</p>
	<p><b>Lämmlein Sarah, Schwarze Francis, Burgert Ingo, Mannes David</b> The varnish barrier effect on the sorption properties of wood investigated by neutron imaging measurements. 4<sup>th</sup> Annual Conference COST FP1302 WoodMusICK – Preservation of Wooden Musical Instruments Ethics, Practice and Assessment, Brussels, BE, 10-05 to 10-07 ♣</p>
	<p><b>Olaniran Samuel, Michen Benjamin, Burgert Ingo, Mendéz Diego, Wittel Falk, Rüggerberg Markus</b> Investigating the micro-mechanical properties of chemically modified Norway Spruce. IUFRO 2017 Division 5 Conference &amp; SWST 60<sup>th</sup> International Convention, Vancouver, BC, CA, 06-12 to 06-16 ♣</p>
	<p><b>Rüggeberg Markus</b> European Conference of Smart Materials, Kiel, DE, 05-09 ♣</p>
	<p><b>Schubert Mark</b> Analysis and prediction of laccase-catalyzed oxidation of different substrates by deep neural networks. 2<sup>nd</sup> International Congress &amp; Expo on Biotechnology and Bioengineering, Valencia, ES, 09-25 to 09-27 ▲ ○</p>
	<p><b>Schubert Mark, Weishaupt Ramon, Civardi Chiara, Stocker Lukas, Mourad Safer</b> Deep Neural Network for Analyzing and Prediction of Laccase-Catalyzed Oxidation of Different Substrates . Biotrans 13<sup>th</sup> International Symposium on Biocatalysis and Biotransformation, Budapest, HU, 07-10 to 07-13 ♦</p>
	<p><b>Schwarze Francis</b> A journey from arboriculture to science and back. Registered Consultants' Standards and Development Day, Kew Gardens, London, GB, 05-18 ♣</p>
	<p><b>Schwarze Francis</b> Biologische Kontrolle von holzzersetzenden Pilzen. Schweizer Baumpflege Tag, Bern, 11-09 ♣</p>
	<p><b>Vidiella del Blanco Marta, Cabane Etienne</b> Wood Membranes for Oil-Water separation. ICBMC Conference 2017, Nantes, FR, 03-29 to 03-31 ♣</p>
	<p><b>Vidiella del Blanco Marta, Wang Yaru, Cabane Etienne</b> Evaluation of treatments on wood surface. 1<sup>st</sup> PCBM Workshop, Zürich, 06-07 to 06-08 ♣ ○</p>
	<p><b>Zimmermann Tanja</b> Cellulose Foams and Films. "Cellulosic material properties and industrial potential" – Final meeting in COST FP1205, Stockholm, SE, 03-07 to 03-08 ♣ ○</p>
	<p><b>Zimmermann Tanja</b> Functionalisation of nanocellulose. Royal Society International Scientific Seminar "Cellulose: prospects and challenges", Chicheley Hall, Buckinghamshire , GB, 03-15 to 03-16 ♣ ○</p>
<b>Building Energy Materials and Components</b>	<p><b>Brunner Samuel</b> Aerogel-based solutions. Advanced Building Skins, Bern, 10-03 ■</p>
	<p><b>Civioc Romain</b> Silica-organic composite aerogels. Empa PhD Symposium, Dübendorf, 11-13 ♦</p>
	<p><b>Galmarini Sandra, Bernau, Hofmann, Bowen, Koebel</b> Understanding nanoparticle suspensions: polymer adsorption and polarization at nanoparticle surfaces.. Goldschmidt 2017, Palais de Congrès, Paris, FR, 08-13 to 08-18 ♣</p>
	<p><b>Galmarini Sandra, Mallya, Arreguin, Huber, Geissbühler</b> Nanostructure, water adsorption and thermal conductivity of aerogels.. International Youth Summer School "Aerogels: From Laboratory to Industry", Mendeleev University Moscow, RU, 07-13 to 07-14 ♣ ○</p>
	<p><b>Guerrero Albuquerque Natalia</b> Superinsulating biopolymer aerogels. Empa PhD Symposium, Dübendorf, 11-13 ♦</p>
	<p><b>Huber Lukas, Zhao, Malfait, Vares, Koebel</b> Fast and Minimal-Solvent Production of Superinsulating Silica Aerogel Granulate. . Swiss Chemical Society Fall Meeting, Bern, 08-21 to 08-22 ♣</p>
	<p><b>Iswar Subramaniam, Malfait, Griffa, Koebel, Lattuada</b> Effect of aging on silica aerogel properties and study of the structure of glass wool aerogel composites by X-ray tomography.. MRS Spring Meeting, Phoenix, US, 04-17 to 04-21 ♣</p>

<b>Building Energy Materials and Components</b>	<b>Koebel Matthias</b> Aerogels and composite materials – an overview. IDTECHEX Masterclass, Berlin, DE, 05-09 to 05-10 🍄 ○
	<b>Koebel Matthias</b> Aerogel based superinsulation: New opportunities and solutions. Advanced Building Skins, Bern, 10-02 to 10-03 🍄 ○
	<b>Koebel Matthias, Huber, Arreguin, Zeng</b> Resin based carbon Aerogels and Xerogels for energy: Synthesis, processing and applications. Sol-Gel 2017 Liege, Liège, FR, 09-04 to 09-08 🍄 ○
	<b>Koebel Matthias, Stojanovic, Huber</b> nexAERO—A Disruptive Aerogel Materials Company—Technology, Key Markets and Vision. MRS Spring meeting, Phoenix, AZ, US, 04-16 to 04-21 🍄 ○
	<b>Malfait Wim, Verel, Rentsch, Juranyi, Zhao, Koebel</b> New analytical methods for sol-gel materials – Quantitative solid-state NMR of the surface chemistry and QENS of the dynamics of silica aerogels. Sol-Gel, Liège, FR, 09-03 to 09-08 ♦
	<b>Malfait Wim, Zhao, Koebel</b> Aerogels for thermal superinsulation: making the transition from basic science to industrial production. AIST-Empa Energy Workshop, AIST Osaka, JP, 10-10 to 10-12 🍄 ○
	<b>Malfait Wim, Zhao, Koebel</b> Aerogels for thermal superinsulation: making the transition from basic science to industrial production. Kyoto University invited talk, Kyoto University, JP, 10-13 🍄 ○
	<b>Petitgirard Sylvain, Malfait, others</b> Density and structure of amorphous silicate at high pressure conditions. Goldschmidt Conference, Paris, FR, 08-13 to 08-18 🍄
	<b>Salimian Saeed, Zadhoush, Malfait, Barbezat, Koebel</b> Rheological, Thermal and Mechanical Properties of Silica Aerogel-Epoxy Nanocomposite. 6 <sup>th</sup> International Conference on UltraFine Grained and Nano-Structured Materials, Kish Island, IR, 11-12 to 11-13 🍄
	<b>Stojanovic Ana, Koebel</b> Inorganic aerogels: from lab to industry. International Youth Summer School "Aerogels: From Laboratory to Industry", Mendeleev University Moscow, RU, 07-13 to 07-14 🍄 ○
<b>Wernery Jannis</b> Materialstruktur, Eigenschaften und neue Entwicklungen im Bereich HLWD. HLWD in der Baupraxis, Olten, 10-25 🍄 ○	
<b>Wernery Jannis, Ben-Ishai, Binder, Brunner</b> Aerobrick – An aerogel-filled insulating brick. 9 <sup>th</sup> International Conference on Sustainability in Energy and Buildings (SEB-17), Chania, GR, 07-05 to 07-07 🍄	
<b>Zhao Shanyu, Malfait, Koebel, Brunner, Huber</b> "Biopolymer-silica aerogels with unique hygro-thermo-mechanical properties". SCS fall meeting 2017, University of Bern, 08-21 to 08-22 ♦	
<b>Concrete/Construction Chemistry</b>	<b>Griffa Michele, Carrara Pietro</b> Mini-Symposium on 3D Imaging and Segmentation Methods for Computational Modeling of Heterogeneous Materials. 7 <sup>th</sup> German Association for Computational Mechanics Colloquium on Computational Mechanics for Young Scientists from Academia and Industry, Stuttgart, DE, 10-11 to 10-13 ▲
	<b>Griffa Michele, Münch Beat, Leemann Andreas, Mokso Rajmund, Marone Federica, Lura Pietro</b> X-ray tomographic microscopy of accelerated alkali-silica reaction damage in mortars. 16 <sup>th</sup> Euroseminar on Microscopy Applied to Building Materials (EMABM 2017), Les Diablerets, 05-14 to 05-17 🍄 ○
	<b>Griffa Michele, Yang Fei, Prade Friedrich, Kaufmann Rolf, Bonnin Anne, Hipp Alexander, Derluyn Hannelore, Moonen Peter, Boone Matthieu, Herzen Julia, Mokso Rajmund, Pfeiffer Franz, Beckmann Felix, Lura Pietro</b> X-ray imaging of water transport in porous materials: New possibilities by phase and dark-field contrast. 3 <sup>rd</sup> International Conference on Tomography of Materials and Structures (ICTMS 2017), Lund, SE, 06-26 to 06-30 🍄
	<b>Griffa Michele, Yang Fei, Prade Friedrich, Kaufmann Rolf, Bonnin Anne, Hipp Alexander, Derluyn Hannelore, Moonen Peter, Boone Matthieu, Herzen Julia, Mokso Rajmund, Pfeiffer Franz, Beckman Felix, Lura Pietro</b> X-ray imaging of water transport in porous materials: new possibilities by phase and dark-field contrast. 7 <sup>th</sup> German Association for Computational Mechanics Colloquium on Computational Mechanics for Young Scientists from Academia and Industry, Stuttgart, DE, 10-11 to 10-13 🍄
	<b>Kaufmann Josef</b> Aktiver Energiespeicher Beton. FSKB Herbstanlass 2017, Zürich, 10-20 🍄 ○
	<b>Leemann Andreas</b> Durability of concrete. Scientific evaluation of LMCM, Toulouse, FR, 05-04 🍄 ○
	<b>Leemann Andreas</b> Betontechnologische Aspekte in der Kläranlage. Zukunftsweisende Abwassertechnologie: Verfahrenstechniken und Betonschutz, Empa - Dübendorf, 09-13 to 09-06 🍄 ○
	<b>Leemann Andreas</b> ASR – Aktuelle Situation in der Schweiz. AKR – Fachforum, Bergisch Gladbach, DE, 11-28 🍄 ○

<b>Concrete/Construction Chemistry</b>	<p><b>Leemann Andreas, Scrivener Karen</b> Scanning electron microscopy . Euroseminar of Applied Building Materials, Les Diablerets, 05-14 🍄 ○</p> <p><b>Lothenbach Barbara</b> Calcium silicate hydrates. 253<sup>rd</sup> American Chemical Society National Meeting, San Francisco, US, 04-02 to 04-06 🍄 ○</p>
	<p><b>Lothenbach Barbara</b> Chemistry of cements. Migration 2017, Barcelona, ES, 09-10 to 09-15 🍄 ○</p>
	<p><b>Lothenbach Barbara</b> Thermodynamic modelling, an important tool for the assessment of cementitious binders . Inaugural Lecture, International Chair at NTNU, Trondheim, NO, 11-01 🍄 ○</p>
	<p><b>Lothenbach Barbara, Dmitrii Kulik</b> Aluminium in C-S-H: experimental evidence and thermodynamic modelling . Nanocem Workshop –Atomistic Simulation in Cementitious Systems, Les Diablerets, 05-10 to 05-18 🍄 ○</p>
	<p><b>Lothenbach Barbara, Winnefeld Frank</b> Thermodynamic Modeling of Cementitious Systems. 5<sup>th</sup> GEMS Workshop Thermodynamic Modeling of Cementitious Systems, Empa, Forum Chriesbach, Dübendorf, 05-30 to 06-01 🍄 ○</p>
	<p><b>Lothenbach Barbara, Winnefeld Frank</b> 5<sup>th</sup> GEMS Workshop Thermodynamic Modeling of Cementitious Systems, Empa- Forum Chriesbach, Dübendorf, 05-30 to 06-01 ■</p>
	<p><b>Lura Pietro, Terrasi Giovanni P., Wyrzykowski Mateusz, Justs Janis, Toropovs Nikolajs, Lämmlein Tobias D.</b> Innovative Solutions for Buildings and Infrastructure based on High-Performance and Ultra-High-Performance Concrete. Invited Seminar at University of Bologna, Bologna, IT, 06-12 🍄 ○</p>
	<p><b>Lura Pietro, Terrasi Giovanni P., Wyrzykowski Mateusz, Lämmlein Tobias D.</b> Innovative Solutions for Buildings and Infrastructure based on High-Performance Concrete, Increased Volume Stability, Better Fire Resistance and Self-prestressing. 7<sup>th</sup> WMRIF Symposium on Materials for Renewing and Protecting Critical Infrastructure and Resources, MTEC, Bangkok, TH, 06-19 to 06-20 🍄</p>
	<p><b>Lura Pietro, Terrasi Giovanni P., Wyrzykowski Mateusz, Toropovs Nikolajs, Weber Benedikt, Griffa Michele</b> Brandwiderstand von hochfesten Betonen. Innovative Baustoffe, Empa Akademie, Dübendorf, 08-22 🍄</p>
	<p><b>Lura Pietro, Wyrzykowski Mateusz, Ghourchian Sadegh, Sinthupinyo Sakprayut, Tang Clarence, Chitvoranund Natechanok, Chintana Tipwimol, Sisomphon Kritsada</b> Application of waste-derived lightweight aggregates for internal curing of concrete. International Conference on Advances in Construction Materials and Systems (ICACMS-2017), Chennai, IN, 09-03 to 09-08 🍄</p>
	<p><b>Lura Pietro, Wyrzykowski Mateusz, Yang Fei, prade Friedrich, Griffa Michele, Kaufmann Rolf, Pfeiffer Franz</b> 3D imaging of moisture distribution and transport in early-age cementitious materials. 2<sup>nd</sup> Int. RILEM, COST Conf. on Early Age Cracking and Serviceability in Cement-based Materials and Structures EAC2, Brussels, BE, 09-12 to 09-14 🍄 ○</p>
	<p><b>Winnefeld Frank</b> Reaktivität synthetischer Alumosilicat-Gläser unter alkalischen Bedingungen. Workshop Massenreststoffe als Rohstoffquelle – Rückgewinnung von Metallen und Aufwertung der mineralischen Fraktion, Berlin, DE, 11-16 🍄 ○</p>
	<p><b>Winnefeld Frank, Alahrache Salaheddine, Champenois Jean-Baptiste, Hesselbarth Frank, Lothenbach Barbara</b> Activation of siliceous fly ash – Portland cement blends under mild alkaline conditions. International Workshop on Alkali-Activated Materials, Ljubljana, SI, 05-11 🍄</p>
	<p><b>Winnefeld Frank, Götz-Neunhoeffer Friedlinde, Osburg Andrea, Peter Ulrike, Stephan Dietmar, Zurbriggen Roger</b> GDCh-Tagung Bauchemie, Weimar, DE, 09-18 to 09-20 ■</p>
	<p><b>Winnefeld Frank, Martin Lukas, Tschopp Elsa, Müller Christian, Lothenbach Barbara</b> Influence of pozzolanic materials on the hydration of calcium sulfoaluminate cements. 10<sup>th</sup> ACI, RILEM International Conference on Cementitious Materials and Alternative Binders for Sustainable Concrete, Montreal, CA, 10-02 to 10-04 🍄</p>
	<p><b>Wyrzykowski Mateusz</b> 6<sup>th</sup> Biot Conference on Poromechanics, Paris, FR, 07-09 to 07-13 ▲</p>
	<p><b>Wyrzykowski Mateusz, Carmelo Di Bella, Pietro Lura</b> Shrinkage of concrete as an effect of hygro-mechanical coupling in unsaturated porous body – experimental and theoretical study of different poroelastic approaches. 9<sup>th</sup> International Conference on Porous Media &amp; Annual Meeting, Minisymposium MS1.5: Constitutive framework for unsaturated porous media: experimental challenges and modeling opportunities , Rotterdam, NL, 05-08 to 05-11 🍄 ○</p>
	<p><b>Wyrzykowski Mateusz, Di Bella Carmelo, Lura Pietro</b> Prediction of drying shrinkage of cement-based mortars with poroelastic approaches? A critical review. 6<sup>th</sup> Biot Conference on Poromechanics, Paris, FR, 07-09 to 07-13 🍄</p>



<b>Concrete/Construction Chemistry</b>	<b>Wyrzykowski Mateusz, Lura Pietro</b> Application of SAP for reduction of shrinkage and thermal deformations in HPC . Invited Seminar at Southeastern University, Nanjing, CN, 10-31 🍀 ○
	<b>Wyrzykowski Mateusz, Stéphanie STAQUET, Dimitrios AGGELIS (Chairs)</b> 2 <sup>nd</sup> International RILEM, COST Conference on Early Age Cracking and Serviceability in Cement-based Materials and Structures – EAC 02, Brussels, BE, 09-12 to 09-14 ■
<b>High Performance Ceramics</b>	<b>Yang Fei, Griffa Michele, Prade Friedrich, Kaufmann Rolf, Hipp Alexander, Derluyn Hannelore, Moonen Peter, Boone Matthieu N., Herzen Julia, Beckmann Felix, Pfeiffer Franz, Lura Pietro</b> Imaging water transport in cement-based materials with gratings: multi-contrast modalities from synchrotron radiation to laboratory-scale. X-ray and Neutron Phase Imaging with Gratings 2017, Zürich, 09-12 to 09-15 🍀
	<b>Blugan Gurdial</b> Performance of Lightweight Coated Oxide Ceramic Composites for Industrial High Speed Wood Cutting Tools. ECERS Conference, Budapest, HU, 07-08 to 07-14 🍀
	<b>Borlaf Mario</b> Flame Spray Synthesis: a versatile route for nanophosphors production. Swissnano Convection, Fribourg, 06-01 to 06-02 ◆
	<b>Borlaf Mario</b> Flame Spray Synthesis of YAG:Ce nanoparticles. ECERS Conference, Budapest, HU, 07-08 to 07-14 🍀
	<b>Braun Artur</b> Water oxidation with holes: What we learn from operando “synchrotron” studies. Focus H2 Workshop of HSU and HZB: Solar hydrogen generation: perspectives and research opportunities, Hamburg and Geesthacht, DE, 01-19 to 01-20 🍀 ○
	<b>Braun Artur</b> High Temperature Structure and Transport in La <sub>0.9</sub> Sr <sub>0.1</sub> FeO <sub>3</sub> . TO-BE Spring Meeting 2017. Towards oxide-based Electronics, Luxembourg Institute of Science and Technology, LU, 04-03 to 04-05 ◆
	<b>Braun Artur</b> Intermediates in PEC Water Oxidation—How They Come and How They Go . MRS Spring Meeting 2017, Phoenix AZ, US, 04-17 to 04-21 🍀 ○
	<b>Braun Artur</b> Selectively invited audience as FP Global Thinker Alumni. "A Conversation with Dr. Jane Goodall", Carnegie Institution f Intern. Peace, WashingtonDC, US, 04-28 ■ ○
	<b>Braun Artur</b> Experience With Empa's Hydrogen Fuel Cell Car. Abteilungsseminar Hochleistungskeramik, Dübendorf, 05-02 🍀
	<b>Braun Artur</b> X-rays and Neutrons: The Pick and Shovel for the Materials Scientist. ALTE2017 – Analytical Techniques for Precise Characterization of Nanomaterials, Strassbourg, FR, 05-22 to 05-26 🍀 ○
	<b>Braun Artur</b> Operando Investigation of the Chemical Interaction of Water Vapor with Ceramic Proton Conductors. 231 <sup>st</sup> Meeting of The Electrochemical Society, New Orleans LA, US, 05-28 to 06-02 🍀
	<b>Braun Artur</b> Some Observations on the Electrochemical Interface of Hematite in Alkaline Electrolyte during Solar Water Oxidation. 231 <sup>st</sup> Meeting of The Electrochemical Society, New Orleans LA, US, 05-28 to 06-02 🍀 ○
	<b>Braun Artur</b> X-Ray Spectroscopic and Electroanalytical Studies on the Bio-Electic Interface of Metal Oxide Semiconductors and Algal Proteins and Biofilms. 231 <sup>st</sup> Meeting of The Electrochemical Society, New Orleans LA, US, 05-28 to 06-02 🍀
	<b>Braun Artur</b> Supercapacitor Stack Built from Monolithic Porous Glassy Carbon Electrodes. 231 <sup>st</sup> Meeting of The Electrochemical Society, New Orleans LA, US, 05-28 to 06-02 🍀
	<b>Braun Artur</b> Protons in Ceramic Electrolytes. TU Darmstadt Materials Science Colloquium, Darmstadt, DE, 06-12 🍀 ○
<b>Braun Artur</b> Keynote on Photoelectrochemical Water Splitting and Solar Hydrogen: ““There is a tiny little engine ...”. 21 <sup>st</sup> International Conference on Solid State Ionics, Padua, IT, 06-18 to 06-23 🍀 ○	
<b>Braun Artur</b> Materials Science with Synchrotron Radiation X-rays. EUROMAT2017 Conference , Thessaloniki, GR, 09-17 to 09-22 🍀 ○	
<b>Braun Artur</b> "There is a Tiny Little Engine". Arctic Centre for Sustainable Energy Seminar, Tromso, UiT, NO, 09-25 🍀 ○	
<b>Braun Artur</b> Studying in . European Union "Study in Europe" Fair, in collaboration with S&T Office Seoul, Seoul, KR, 10-28 to 10-29 🍀 ○	
<b>Braun Artur</b> A Short and Golden Age of Solar Fuel Pioneering. MRS Fall Meeting 2017, Boston MA, US, 11-27 to 12-01 🍀 ○	

<b>High Performance Ceramics</b>	<p><b>Braun Artur</b> At the Nexus between Animate and Inanimate Matter—Biological Materials, Components and Devices. MRS Fall Meeting 2017, Boston MA, US, 11-27 to 12-01 🍄</p>
	<p><b>Braun Artur</b> Correlation of Defect Property and Electric Transport Properties of Metal Oxide Electrodes and Solid Electrolytes. MRS Fall Meeting 2017, Boston MA, US, 11-27 to 12-01 🍄</p>
	<p><b>Braun Artur</b> Investigation of Solid Oxide Fuel Cell Anodes, Cathodes and Electrolytes with X-Ray Scattering and Spectroscopy. 231<sup>st</sup> Meeting of The Electrochemical Society, New Orleans LA, US, 2018-05-27 to 06-02 🍄</p>
	<p><b>Braun Artur, Boudoire Florent, Heier Jakob, Toth Rita, Constable Edwin</b> A Bio-Inspired and Self-Assembled Water Oxidation Photoelectrode Based on Moth-Eye Photonic Architecture . MRS Spring Meeting 2017, Phoenix AZ, US, 04-17 to 04-21 🍄</p>
	<p><b>Braun Artur, Cairns Elton</b> Depth and Width of Interfaces—Assessment Soft X-Ray Electronic Structure of Battery Electrodes Operando with Hard X-Rays . MRS Spring Meeting 2017, Phoenix AZ, US, 04-17 to 04-21 🍄</p>
	<p><b>Braun Artur, Chen Qianli</b> High Pressure for Parameterization of the Proton-Phonon Coupling in Solid Electrolytes . MRS Spring Meeting 2017, Phoenix AZ, US, 04-17 to 04-21 🍄</p>
	<p><b>Braun Artur, Chen Qianli</b> The Discovery of the Proton Polaron. MRS Fall Meeting 2017, Boston MA, US, 11-27 to 12-01 🍄 ○</p>
	<p><b>Braun Artur, Homma Shunji</b> Mathematical Modelling for The FLUOREX Nuclear Fuel Recycling Process. MRS Fall Meeting 2017, Boston MA, US, 11-27 to 12-01 🍄</p>
	<p><b>Braun Artur, Homma Shunji</b> Reaction Model for Fluorination of Uranium Dioxide Using Improved Unreacted Shrinking Core Model for Expanding Spherical Particles . MRS spring Meeting 2017, Phoenix AZ, US, 04-17 to 04-21 🍄</p>
	<p><b>Braun Artur, SETO Jong</b> Frontiers of Synchrotron Studies into Biological Materials, Components and Systems—Beyond Crystallography and Steady-State. Advanced Lightsource Users Meeting 2017 Workshop: Frontiers of Synchrotron Studies into Biological Materials, Components and Systems—Beyond Crystallography and Steady-State, Berkeley CA, US, 10-02 to 10-04 ▲</p>
	<p><b>Braun Artur, Toth Rita, Constable, Edwin, Walliser, Roche, Lagzi, Istvan, Racz, Zoltan</b> Printing without a Printer (Printerless Printing) – Functional Self-Organized Microstructures by Controlled Reaction-Diffusion-Precipitation. MRS Fall Meeting 2017, Boston MA, US, 11-27 to 12-01 🍄</p>
	<p><b>Clemens Frank</b> Soft Condensed Mater Sensor Structures for Soft Body Dynamic and Vital Function Monitoring. Euro Intelligent Materials, Kiel, DE, 06-07 to 06-09 🍄</p>
	<p><b>Clemens Frank, Gorjan Lovro, Lusiola Tony, Scharf Dagobert</b> Eco-debinding of PZT ceramics made by thermoplastic extrusion. DKG-Jahrestagung, Berlin, DE, 03-20 to 03-22 🍄</p>
	<p><b>Clemens Frank, Miriam Bach, Tutu Sebastian, Mark Melnykowycz, Tony Lusiola, Dagobert Scharf</b> Additive Manufacturing of Piezoelectric 3-3 Composite Structures. Additive Manufacturing for Products and Applications Conference 2017, ETH, Zürich, 09-13 to 09-15 🍄</p>
	<p><b>Graule Thomas</b> Poröse Materialien und zellulare Strukturen. DKG-Fachausschuss, Erlangen, DE, 04-03 to 04-05 ▲ ○</p>
	<p><b>Graule Thomas</b> The challenge of nanoparticle stabilization for the preparation of nanocomposites. Nanotech France, Paris, FR, 06-28 to 07-02 🍄 ○</p>
	<p><b>Graule Thomas</b> Nanoparticle characterization and surface modification. Seminar MCB, 2017, Warschau, PL, 10-17 🍄 ○</p>
	<p><b>Graule Thomas</b> Nanoparticle characterization and surface modification. Seminar Polis Research Center, Radom, PL, 10-18 🍄 ○</p>
	<p><b>Graule Thomas, Caroline Durif, Paulina Ozog, Dariusz Kata</b> Aquacasting – a new UV based reactive tape casting concept. ICACC – Daytona, Daytona, Florida, US, 01-23 to 01-27 🍄 ○</p>
	<p><b>Graule Thomas, Katja A. Fröhlich, Eleni Mitrentsis, Frank Clemens, Véronique Michaud</b> Van der Waals interactions in refractive index matched nanoparticle dispersions . DKG-Jahrestagung, Berlin, DE, 03-19 to 03-22 ▲</p>
	<p><b>Graule Thomas, Katja A. Fröhlich, Eleni Mitrentsis, Frank Clemens, Véronique Michaud</b> Van der Waals interactions in refractive index matched nanoparticle dispersions. ECERS Conference, Budapest, HU, 07-09 to 07-14 🍄 ○</p>
	<p><b>Hadian Amir</b> Effect of differen steel binders on microstructural and mechanical properties of NbC-Fe cemented carbides prepared from fine NbC Powder. ECERS Conference, Budapest, HU, 07-08 to 07-14 🍄</p>

## High Performance Ceramics

### Lusiola Tony

3D printing of porous ferroelectric ceramics using fused deposition modelling and flexible thermoplastic ceramic filaments. Piezo 2017, Madrid-Cercedilla, ES, 02-19 to 02-23 ♣

### Melnykowycz Mark

Soft Condensed Matter Sensor Structures for Soft Body Dynamic and Vital Function Monitoring. IDTechEx Show, Berlin, DE, 10-09 to 10-10 ♣ ○

### Naikade Manoj

Standing on the shoulders of giants. Empa PhD Students' Symposium 2017, Dübendorf, 11-13 ■ ○

### Naikade Manoj

Studying the wettability of Si and Si-Zr alloy on carbon and silicon carbide by sessile drop experiments. 81<sup>st</sup> Annual Session of Indian Ceramic Society and International Conference on "EH-TACAG", Pune, IN, 12-14 to 12-17 ◆

### Ozog Paulina

Experiences of a PhD student. Welcome @Empa – Orientation for PhD students, Dübendorf, 05-22 ♣ ○

### Ozog Paulina

PhD at Empa – Place where Innovation Starts. Empa-Visit of students from United Arab Emirates, Dübendorf, 08-09 ♣ ○

### Ozog Paulina

UV-curable system for tape casting of AlN. Empa PhD Students' Symposium 2017, Dübendorf, 11-13 ◆

### Pfeiffer Stefan

FUORCLAM: Fundamental Understanding of Oxide Refractory Ceramics and Laser Additive Manufacturing. Empa PhD Students' Symposium 2017, Dübendorf, 11-13 ◆

### Rantze Tobias

Elastomer Sensor Structures. 19. Fachtagung: Fortschritte in der Kunststofftechnik – Theorie und Praxis, Osnabrück, DE, 06-28 to 06-29 ◆ ○

### Top Jens, Alexander Stephens, Bongjin S. Mun, Catherine Housecroft, Artur Braun

Molecular and physical aspect of dye sensitization using copper based sensitizers. SCG Fall meeting 2017, Uni Bern, 08-21 to 08-22 ◆

### Top Jens, Alexander Stephens, Bongjin S. Mun, Catherine Housecroft, Artur Braun

Molecular and physical aspect of dye sensitization using copper based sensitizers. LightChEC Symposium 2017, Uni Zürich, Irchel Campus, 11-03 ◆

### Top Jens, Alexander Stephens, Bongjin S. Mun, Catherine Housecroft, Artur Braun

Molecular and physical aspects of dye sensitization using copper based sensitizers. Empa PhD symposium, Empa Akademie, 11-13 ◆

### Top Jens, Gabriella Skara, Balázs Pinter, Paul Geerlings, Frank De Proft, Freija De Vleeschouwer

Origin of "Frustration" in Frustrated Lewis Pairs. 53<sup>rd</sup> Symposium on Theoretical Chemistry 2017, Uni Basel, 08-21 to 08-25 ◆

### Toth Rita

Electrocatalysts for Hydrogen Generation . Conference on Multifunctional, Hybrid and Nanomaterials, Lissabon, PT, 03-06 to 03-10 ◆

### Toth Rita

Liesegang formation of aligned, linear arrays of Ag nanoparticles . Conference on Multifunctional, Hybrid and Nanomaterials, Lissabon, PT, 03-06 to 03-10 ♣

### Toth Rita

Direct Conversion of Solar Energy. FET Flagship Follow-up Meeting, Leiden, NL, 10-18 to 10-19 ♣

### Toth Rita

Sunshine as Fuel. Seminar at Association of Hungarian Engineers and Architects in , ETH, 11-16 ♣ ○

### Toth Rita

MRS Fall Meeting, Boston, US, 11-27 to 12-01 ■

### Toth Rita

MRS Fall Meeting, Boston, US, 11-27 to 12-01 ▲

### Toth Rita, Suzuno Kohta, Lovass Petra, Branicki Michal, Braun Artur, Ueyama Daishin, Lagzi Istvan

Reaction-Diffusion-Convection Chemical Computer—Marangoni Flow Driven Maze Solving . MRS Fall meeting, Boston, US, 11-27 to 12-01 ♣