Empa Activities 2013
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**Empa Activities 2013**

### Awards

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<td><strong>Advanced Materials Processing</strong></td>
<td><strong>Hammoud, Hussein</strong></td>
<td>Best students presentation/Ampère conference, Nottingham, GB</td>
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<td><strong>Sriharitha, Rowthu</strong></td>
<td>Best poster award, CCMX annual meeting 2013, Bern</td>
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<td><strong>Sriharitha, Rowthu</strong></td>
<td>3rd best poster award, EDMX Research day 2013, EPFL, Lausanne</td>
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<td><strong>Eyer, Simon</strong></td>
<td>Best Presentation/ASI 2013 Braunschweig</td>
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<td><strong>Wolf, Benjamin</strong></td>
<td>Best Presentation/ASI 2013 Braunschweig</td>
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<td></td>
<td><strong>Wolf, Benjamin</strong></td>
<td>Wissenschaftspris des Stifterverbandes – Erwin Schrödinger-Preis 2013 /Helmholtz Jahrestagung Berlin</td>
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<td><strong>Analytical Chemistry</strong></td>
<td><strong>Christoffel, Aaron/Nowak, Bernd/Wichser, Adrian</strong></td>
<td>1. Preis im Projekt kurs im Rahmen der Ausbildung 3. Lehrjahr/ Vorstudie und Methodenentwicklung zum Auswaschverhalten von Silbern nanopartikel behandelten Textilien (EPA-Studie)</td>
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<tr>
<td><strong>Biomaterials</strong></td>
<td><strong>Fuhr, Matthias</strong></td>
<td>Silbermedaille 2012/ETH Materials Research Center (MRC)</td>
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<td></td>
<td><strong>Gierlinger, Notburga</strong></td>
<td>START-PROJEKT «Plant surfaces and interfaces: Lignin, Suberin and Cutin» (Y 728-B16), PWF (Fonds zur Förderung der wissenschaftlichen Forschung)</td>
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<td><strong>Building Science and Technology</strong></td>
<td><strong>Bahr, Michael</strong></td>
<td>Poster Award Biotrans 2013, Manchester UK</td>
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<td><strong>Schmid-Emrich, Sabrina/Altenried, Stefanie/Grieder, Kathrin/Stiefel, Philipp/Ren, Qun/Thöny-Meyer, Linda</strong></td>
<td>Swiss Technology Award</td>
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<td><strong>Electronics/Metrology/Reliability</strong></td>
<td><strong>Behrooz, Ferdowsi</strong></td>
<td>Centro Stefano Francini Award for young scientists</td>
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<td><strong>Derluy, Hannelore</strong></td>
<td>ETH Medal for outstanding dissertation</td>
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<td><strong>Immer, Marc</strong></td>
<td>Student presentation competition: Runner up. Physmod 2013 – International Workshop on Physical Modeling of Flow and Dispersion Phenomena, University of Surrey</td>
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<td><strong>Pham, Minh Son</strong></td>
<td>ETH Medal for outstanding dissertation</td>
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<td><strong>Functional Polymers</strong></td>
<td><strong>Rutz, Nadja/Keller, Adrian/Holdener, Simon/Freese, Andreas</strong></td>
<td>Lehrlingwettbewerb 2013, Zürich Oberland. 1. Rang «Preis der Jury: 3D-Electronic-Gadget-Printing</td>
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<td><strong>High Performance Ceramics</strong></td>
<td><strong>Sanabria, Sergio</strong></td>
<td>IAWS Goldmedaille, IAWS International Academy of Wood Science 2013 Nanjing, China</td>
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<td><strong>Sanabria, Sergio</strong></td>
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<td><strong>Thöny-Meyer, Linda</strong></td>
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<td>Poster price/Empa Phd symposium</td>
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<td><strong>High Performance Ceramics</strong></td>
<td><strong>Bora, Dejabeet Kumar</strong></td>
<td>Empa Forschungspreis 2013</td>
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<td><strong>Boudoire, Florent</strong></td>
<td>Oral Award 3rd place, Empa PhD Symposium 2013</td>
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<td><strong>Flak, Dorota K.</strong></td>
<td>AGH Krakow Doctoral Thesis Award</td>
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<tr>
<td>High Performance Ceramics</td>
<td>Schabikowski, Mateusz</td>
<td>Best Poster Presentation; PERMEA 2013, Warsaw</td>
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<td>Hydrogen and Energy</td>
<td>Züttel, Andreas/ Biemann, Michael</td>
<td>Watt d’Or Preis (BFE) Kategorie Wenergieeffiziente Mobilität, Postauto Projekt</td>
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<td>Materials-Biology Interactions / Biomaterials</td>
<td>Bruinink, Arie/Richter, Michael/Mäder, Xenia</td>
<td>Nomination for CTI MedTech Award 2013: Project Revcel, a resorbable biomaterial as wound dressing</td>
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<td>Media Technology</td>
<td>Caluori, Ursina/Simon, Klaus</td>
<td>Best Interactive Paper Award, IS&amp;T Archiving Conference 2013 April, Washington DC (US)</td>
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<td>Nanoscale Materials Science</td>
<td>Jaeger, Dominik</td>
<td>1st prize ASED Graduate Student Award, San Diego, CA (US)</td>
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<td>Road Engineering/Sealing Components</td>
<td>Garcia, A./Norambuena-Contreras, J./Partl, Manfred</td>
<td>Best Poster Award, 5th EATA Conference of the European Asphalt Technology Association, TU Braunschweig, (DE) 2013</td>
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<td>Solid State Chemistry and Catalysis</td>
<td>Gałążka, Krzysztof</td>
<td>2nd Place Poster Award, EMPA PhD Students’ Symposium 2013</td>
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<td>Protection and Physiology</td>
<td>Derler, Siegfried/Rossi, René</td>
<td>Techtextil innovation prize 2013</td>
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<td>Technology and Society</td>
<td>Badertscher, Stefan/Oertle, David</td>
<td>Environmental Informatics Students’ Award 2013 at EnviroInfo, Hamburg</td>
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<td>Thin Films and Photovoltaics</td>
<td>Gretener, Christina</td>
<td>1st Place Oral Presentation Award, PhD Symposium Empa, 2013</td>
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<td>Thin Films and Photovoltaics</td>
<td>Jäger, Timo</td>
<td>Poster award, E-MRS Spring Meeting 2013, Strasbourg, France</td>
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<td>Thin Films and Photovoltaics</td>
<td>Kovalenko, Maksym</td>
<td>Ruzicka Preis, 2013</td>
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## Empa Activities 2013
### PhD Theses

### Acoustics/Noise Control
- **Churchill, Claire**
  - Direct and Flanking Transmission in Combined Heavyweight and Lightweight Structures
  - Co-Supervisor Empa: Dr. Lubos Krajci
  - University of Liverpool (UK)
  - **submitted in 2013**

- **Zelmann Christoph**
  - Neues Emissionsmodell für Fluglärm
  - Co-Supervisor Empa: Jean Marc Wunderli
  - TU Berlin (DE), Institut für Strömungsmechanik und Technische Akustik

### Advanced Fibers
- **Blanchard, Noémi**
  - Adsorption/Desorption an vertikalen Gradientenschichten (Vgrad)
  - Supervisor Empa: Manfred Heuberger
  - ETH Zurich, Dept. of Materials

- **Kedronovà, Eva**
  - Plasma Modification of Electrospun Polymer Micro and Nano Fibers (PlasmaESP)
  - Co-Supervisor Empa: Dr. Dirk Hegemann
  - Masaryk University Brno, Czech Republic

- **Skacelova, Dana**
  - MODMETOX ‐ Modification of metalloids and its oxides using atmospheric‐pressure plasmas
  - Co-Supervisor Empa: Dr. Dirk Hegemann
  - Masaryk University Brno, Czech Republic, Faculty of Science, Dept. of Physical Electronics

### Advanced Materials Processing
- **Hammoud, Hussein**
  - Sintering of Cerium Oxide based materials by Microwave heating
  - Co-Supervisor Empa: Dr. Sébastien Vaucher
  - Ecoles Nationale des Mines de St Etienne, FR

- **Infante, Daniel**
  - Chinese Mirror - smooth optical effects
  - Supervisor Empa: Prof. Patrik Hoffmann
  - Co-Supervisor Empa: Dr. Kilian Wasmer
  - EPF Lausanne, Photonics

- **Kallip, Kaspar**
  - Nano
  - Co-Supervisor Empa: Dr. Marc Leparoux
  - Tallinn (EST)

- **Le Dantec, Marie**
  - Light initiated melting of dry silicon powder
  - Supervisor Empa: Prof. Patrik Hoffmann
  - Co-Supervisor Empa: Dr. Marc Leparoux
  - EPF Lausanne, Photonics

- **Reinke, Michael**
  - BaTiO3 deposition by HVCVD
  - Supervisor Empa: Prof. Patrik Hoffmann
  - EPF Lausanne, Photonics

- **Rowthu, Sriharitha**
  - Porous wear resistant, tailored wetting materials
  - Supervisor Empa: Prof. Patrik Hoffmann
  - EPF Lausanne, Materials Science and Engineering

- **Saeidi, Fatemeh**
  - Laser structuring of tribo-pair surface
  - Supervisor Empa: Prof. Patrik Hoffmann
  - EPF Lausanne, Science and Engineering

### Air Pollution/Environmental Technology
- **Eyer, Simon**
  - Development of a real-time quantum cascade laser spectrometer for methane isotopic species in ambient air
  - Co-Supervisor: Dr. Lukas Emmenegger
  - University of Bern

- **Oney Brian**
  - CarboCount CH: Quantifying CO2 and CH4 fluxes in Switzerland
  - Co-Supervisor Empa: Dr. Dominik Brunner
  - ETH Zurich, Dept. of Environmental Systems Science

*◆ in progress   ◐ submitted in 2013*
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<tr>
<th>Air Pollution/Environmental Technology</th>
<th>Schönenberger, Fabian</th>
<th>Measurement-based verification of regional emissions of halogenated greenhouse gases</th>
<th>Co-Supervisor: Dr Stefan Reimann</th>
<th>ETH Zurich, Dept. of Environmental Systems Science</th>
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<tr>
<td></td>
<td>Bahk, Yeion Kyoung</td>
<td>Characterization of airborne Carbon Nano Tubes and Filtration</td>
<td>Supervisor Empa: Prof Jing Wang</td>
<td>ETH Zurich, Inst. for Environmental Engineering</td>
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<td></td>
<td>Diefenbacher, Pascal</td>
<td>Investigations of emissions of POPs from buildings into air and modeling of environmental fate</td>
<td>Co-Supervisor Empa: Dr Andreas C. Gerecke</td>
<td>ETH Zurich, Dept. Umweltqualitatswissenschaften</td>
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<td>Durdina, Lukas</td>
<td>Particulate Matter and Gas Phase Emission Measurement of Aircraft Engine Exhaust</td>
<td>Supervisor Empa: Prof Jing Wang</td>
<td>ETH Zurich, Inst. for Environmental Engineering</td>
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<td></td>
<td>Hess, Adrian</td>
<td>Online coupling of a scanning mobility particle sizer SMPS to an inductively coupled plasma mass spectrometer ICP-MS for size fractionated, elemental analysis of nanoparticles in aerosols</td>
<td>Co-Supervisor Empa: Dr Andrea Ulrich</td>
<td>EPF Lausanne, Materials Science and Engineering</td>
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<td>Kammenou, Izoldi-Maria</td>
<td>Study, Transport and Characterization of airborne Nanoparticles with the use of Empa Windtunnel</td>
<td>Supervisor Empa: Prof Jing Wang</td>
<td>ETH Zurich, Inst. for Environmental Engineering</td>
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<td>Kuo, Yu-Ying</td>
<td>Concurrence of nanoparticles and organic pollutants in atmosphere and photocatalytic removal of organic pollutants</td>
<td>Supervisor Empa: Prof Jing Wang</td>
<td>ETH Zurich, Inst. for Environmental Engineering</td>
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<td></td>
<td>Losert, Sabrina</td>
<td>Investigations of the release of nanoparticles from consumer spray products</td>
<td>Co-Supervisor Empa: Dr Andrea Ulrich</td>
<td>ETH Zurich, Inst. for Chemical and Bioengineering ICB</td>
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<td></td>
<td>Ott, Naomi</td>
<td>Development of a novel micro-analytical technique for elemental, locally and time resolved in-situ investigations of micro corrosion processes using a microflow capillary online coupled via flow injection to an inductively plasma mass spectrometry with potentionstactic control (MiCorrAna II)</td>
<td>Co-Supervisor Empa: Dr Andrea Ulrich</td>
<td>University of Bern</td>
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<td>Pavlova, Pavlina</td>
<td>Accelerated release of persistent organic pollutants from Alpine glaciers</td>
<td>Co-Supervisor Empa: Dr Peter Schmid</td>
<td>University of Bern</td>
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<td>Sukiene, Vilma</td>
<td>Assessing the relevance of the dust contribution in consumer exposure to substances from consumer products and articles (DustEx)</td>
<td>Co-Supervisor Empa: Dr Andreas C. Gerecke</td>
<td>ETH Zurich, Environmental Engineering</td>
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<td>Walaszak, Damian</td>
<td>Minimal invasive investigations of corrosion products on ancient metal objects using LA-ICP-MS</td>
<td>Co-Supervisor Empa: Dr Andrea Ulrich</td>
<td>University of Warsaw, Faculty of Chemistry (PL)</td>
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<td>Xue, Meng</td>
<td>Filtration and loading of nanomaterials for air quality and workplace safety</td>
<td>Supervisor Empa: Prof Jing Wang</td>
<td>ETH Zurich, Environmental Engineering</td>
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<td>Applied Wood Materials</td>
<td>Aigner Nikita</td>
<td>Modelling of cell wall components interaction</td>
<td>Co-Supervisor Empa: Prof Ingo Burgert</td>
<td>ETH Zurich, Inst. für Baustoffe</td>
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<td>Civardi Chiara</td>
<td>Assessment of the effectiveness and environmental risk of copper particles based wood preservatives</td>
<td>Co-Supervisor Empa: Prof Francis Schwarze</td>
<td>ETH Zurich, Inst. für Integrative Biologie</td>
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| **Applied Wood Materials** | **Gebald, Christoph**  
Atmospärische CO\(_2\) Abscheidung  
Co-Supervisor Empa: Dr Tanja Zimmermann  
ETH Zurich, Energy Science Center ESC ◆ | **Grüneberger Franziska**  
Modified Nanofibrillated Cellulose in Wood Coatings  
Supervisor Empa: Prof Ingo Burgert  
Co-Supervisor Empa: Martin Arnold  
ETH Zurich, Inst. für Baustoffe ◆ | **Keplinger Tobias**  
Cell wall modification and characterization  
Supervisor Empa: Prof Ingo Burgert  
ETH Zurich, Inst. für Baustoffe ◆ | **Merk Viviane**  
Chemical modification of spruce and beech wood  
Supervisor Empa: Prof Ingo Burgert  
ETH Zurich, Inst. für Baustoffe ◆ | **Orsolini Paola**  
«Elaboration of functional materials using biobased waste resources as building blocks»  
Co-Supervisor Empa: Dr Philippe Tingaut / Dr Tanja Zimmermann  
ETH Zurich ◆ | **Razghandi Khashayar**  
Bio-inspired honeycomb devices for movements  
Co-Supervisor Empa: Prof Ingo Burgert  
Technische Universität Berlin (DE) ◆ | **Segemehl, Jana Simone**  
Cell wall modification of bio-engineered wood  
Supervisor Empa: Prof Ingo Burgert  
ETH Zurich, Institut für Baustoffe ◆ | **Zhang, Zheng**  
Silylated Nanofibrillated Cellulose in Polymer Composites  
Co-Supervisor Empa: Dr Philippe Tingaut  
Université Bordeaux (FR) ◆ |
| **Biomaterials** | **Ghazaryan, Gagik**  
Biobased additives for the mechanical improvement of biopolymers  
Co-Supervisor Empa: Dr Matthijs de Geus  
ETH Zurich, Dept. of Materials ◆ | **Ketikidis, Pantelis**  
Interfacial behavior of biocompatible poly(hydroxyalkanoate)-based polymers for complex materials development.  
Co-Supervisor Empa: Dr Manfred Zinn  
University of Basel, Dept. of Chemistry ◆ | **Lavielle, Nicolas**  
Temporal and spatial controlled drug delivery from electro spun biopolymesters  
Co-Supervisor Empa: Dr Matthijs de Geus / Dr Linda Thöny-Meyer  
Université de Strasbourg, LIPHT ◆ | **Le Meur, Sylvaine**  
Production of polyhydroxyalkanoates (PHAs) from cheap waste resources  
Co-Supervisor Empa: Dr Ana Maria Popa / Dr Qin Ren  
ETH Zurich, Dept. Umweltwissenschaften (UWIS) ◆ | **Weishaupt, Ramon**  
Protein immobilization on nanofibrous materials  
Supervisor Empa: Prof Dr Linda Thöny-Meyer  
Co-Supervisor Empa: Dr Julian Ihssen  
ETH Zurich, Dept. of Biology ◆ | **Abbasion, Saeed**  
Modeling of heat and mechanical effects during wood welding  
Supervisor Empa: Prof Jan Carmeliet  
Co-Supervisor Empa: Prof Dominique Derome  
ETH Zurich, Dept. Architektur ◆ | **Ferdowsi, Behrooz**  
3D MD Modelling of slip triggering in granular media by means of boundary vibration: Implications for dynamic earthquake triggering  
Supervisor Empa: Prof Jan Carmeliet  
Co-Supervisor Empa: Dr Michele Griffa  
ETH Zurich, Dept. Bau ◆ |

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<tr>
<th>Name</th>
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<th>Co-Supervisor Empa</th>
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<td>Georgios, Mavromatidis</td>
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<td>Guizzardi, Michela</td>
<td>Performance assessment of energy renovation strategies for old historical buildings</td>
<td>Prof Jan Carmeliet</td>
<td>Prof Dominique Derome/Mark Zimmermann</td>
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<td>Immer, Marc</td>
<td>Mechanisms and scaling of turbulent transfer within the urban canopy layer</td>
<td>Prof Jan Carmeliet</td>
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<td>Jae Bong Lee</td>
<td>Wetting of building façades by wind driven rain in the urban context</td>
<td>Prof Jan Carmeliet</td>
<td>Prof Dominique Derome</td>
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<td>Prof Dominique Derome / Viktor Dorer</td>
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<td>Adsorption and swelling of complex porous media investigated with molecular dynamics simulation</td>
<td>Prof Jan Carmeliet</td>
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<td>Paterna, Alessandra</td>
<td>3D experimental investigation of hygro-mechanical behaviour of wood at the cellular scale</td>
<td>Prof Jan Carmeliet</td>
<td>Prof Michele Griffa</td>
<td>ETH Zurich</td>
<td>Dept. Bau, Umwelt und Geomatik</td>
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<td>Paterna, Enrico</td>
<td>Turbulent flow modelling of urban areas</td>
<td>Prof Jan Carmeliet</td>
<td>Viktor Dorer</td>
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<td>Rafsanjani Abbasi, Ahmad</td>
<td>Cellular poroelastic model: Bridging the gap from cellular to macroscopic scale</td>
<td>Prof Dominique Derome</td>
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<td>Ruesch, Florian</td>
<td>Low Temperature District Heating - Energetic Optimization Based on Dynamic Simulations</td>
<td>Prof Jan Carmeliet</td>
<td>Dr R. Evins / Viktor Dorer</td>
<td>ETH Zurich</td>
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<td>Saneinejad, Saba</td>
<td>Urban climate</td>
<td>Prof Jan Carmeliet</td>
<td>Dr Peter Moonen</td>
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<td><strong>Vikram, Reddy Ardham</strong></td>
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| **Vonlanthen, Marcel**  |
| Microscale climatic modeling  |
| Supervisor: Empa: Prof Jan Carmeliet  |
| Co-Supervisor: Empa: Viktor Dorer  |
| ETH Zurich, Civil Engineering |

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<tr>
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<tr>
<td><strong>Di Bella, Carmelo</strong></td>
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<td>Shrinkage and cracking in cementitious materials</td>
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<td>Supervisor: Empa: Prof Pietro Lura</td>
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<td>Co-Supervisor: Empa: Dr Mateusz Wyrzykowski</td>
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| **Ellina, Bernard**  |
| Magnesium silicate hydrates (M-S-H)  |
| Co-Supervisor: Empa: Dr Barbara Lothenbach  |
| Université de Bourgogne, Dijon (FR) |

| **Fei, Yang**  |
| Multi-contrast X-ray imaging of water and microstructure in cement-based materials  |
| Supervisor: Empa: Prof Pietro Lura  |
| Co-Supervisor: Empa: Dr Michele Griffa  |
| ETH Zurich, Institut für Baustoffe |

| **Höpital, Emilie**  |
| AI uptake in C-S-H and the influence of alkali  |
| Co-Supervisor: Empa: Dr Barbara Lothenbach  |
| EPF Lausanne |

| **Hui, Chen**  |
| Autogenous and Thermal Deformations and their Interaction in Early Age Cementitious Materials  |
| Supervisor: Empa: Prof Pietro Lura  |
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| EPF Lausanne |

| **Sadegh Ghourchian**  |
| Plastic shrinkage cracking in concrete: from mechanisms to mitigation strategies  |
| Supervisor: Empa: Prof Pietro Lura  |
| Co-Supervisor: Empa: Dr Mateusz Wyrzykowski  |
| ETH Zurich, Institut für Baustoffe |

| **Schröder Axel**  |
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| Co-Supervisor: Empa: Dr Barbara Lothenbach / Dr Frank Winnefeld  |
| Bauhaus, Universität Weimar, F.A. Fingerinstitut für Bauchstoffkunde |

| **Xing Fang**  |
| Cold mix asphalt concrete: combination of cementitious materials and asphalt emulsions  |
| Supervisor: Empa: Prof Pietro Lura  |
| Co-Supervisor: Empa: Dr Alvaro Garcia / Prof Manfred Partl  |
| ETH Zurich |

| **Zhangli, Hu**  |
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| Supervisor: Empa: Prof Pietro Lura  |
| Co-Supervisor: Empa: Dr Mateusz Wyrzykowski  |
| EPF Lausanne |

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Co-Supervisor Empa: Opris, Dorina
EPF Lausanne

**Jenatsch, Sandra**
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Co-Supervisor Empa: Dr Roland Hany
EPF Lausanne

**Ko, Yee Song**
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**Chatterjee, Sanjukta**
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**Schlagenhauf, Lukas**
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University of Zurich

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EPF Lausanne

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University of Basel

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ETH Zurich

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Co-Supervisor Empa: Dr Katharina Maniura  
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**Maluk, Cristian**  
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Co-Supervisor Empa: Roland Koller  
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### Technology and Society

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## Empa Activities 2013

### Patents

#### Patents applied for

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| University of Berne | **Chemistry** | **Populoh, S./Saucke, G./Sagarna, L./Weidenkaff, A./Galazka, K./Thiel, P./Fu, F./Surace, Y./Simoes, M./Keavl, S./Kuc, J./Matam, S.**  
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|                     | **Medizinische Fakultät, Biomedical Engineering** | **Dommann, A./Luginbühl, R.**  
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|                     | **Oeschger Center** | **Riffler, M./Raible, C./Krug, H.F.**  
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| University of Fribourg | **Physik** | **Züttel, A.**  
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Krug, H. F./Wick, P./Nowack, B./Müller, N.
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<td>Schluep, M./Müller, E./Hilty, L. M./Ott, D./Widmer, R./Böni, H.</td>
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<td>Toward the development of decision supporting tools that can be used for safe production and use of nanomaterials. Accounts of Chemical Research 2013, 46(3), 863–872 (joint paper)</td>
<td>Som, C./Nowack, B./Krug, H. F./Wick, P.</td>
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<td>Limitations of applying life cycle assessment to complex co-product systems: The case of an integrated precious metals smelter-refinery. Journal of Cleaner Production 2013, 80(1), 85–96</td>
<td>Stamp, A./Althaus, H.-J/Wäger, P. A.</td>
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<td><strong>Stauffacher, M./Carabias-Hütter, V./ Förster, R./ Fry, P./ Hall, M./ Kläy, A./ Kueffer, C./ Spieß, H./ Wäger, P./ Zingerli, C.</strong></td>
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<td>Engagement für inter- und transdisziplinäre Forschung zur nachhaltigen Entwicklung. GAIA 2013, 22(2), 142–144</td>
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<th><strong>Van der Voet, E./ Salminen, R./ Eckelman, M./ Mudd, G./ Norgate, T./ Hischier, R.</strong></th>
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<tr>
<td>Migration of Ag- and TiO2-(Nano)particles from textiles into artificial sweat under physical stress: experiments and exposure modeling. Environmental Science &amp; Technology 2013, 47(17), 9979–9987 (joint paper)</td>
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<th><strong>Wäger, P./ Fussen, D./ Widmer, R.</strong></th>
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<td>Mobilität und kritische Rohstoffe. In: De Haan, P., Zah, R. (Eds.), Chancen und Risiken der Elektromobilität, VDF, Zürich, 2013, 95–113</td>
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<th><strong>Westerhof, P./ Nowack, B.</strong></th>
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<td>Searching for global descriptors of engineered nanomaterial fate and transport in the environment. Accounts of Chemical Research 2013, 46(3), 844–872</td>
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<th><strong>Windler, L./ Height, M./ Nowack, B.</strong></th>
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# Empa Activities 2013

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### Dommann, A.
Drift and aging investigations in silicon-based sensors MicroCar 2013, Dresden, DE, 02-25

### Dommann, A.
Collaboration between Russia and Switzerland, Moskau, RUS, 09-12

### Dommann, A.
HRXRD Defect analysis on Sensors MNE-Conference, Ede, NL, 12-11

### Krug, H.F.
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### Krug, H.F.
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### Krug, H.F.
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### Krug, H.F.
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### Krug, H.F.
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### Krug, H.F.
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### Krug, H.F.
SETAC Jahrestagung, Universität Essen, DE, 09-23 thru 26

### Krug, H.F.
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### Krug, H.F.

### Krug, H.F.
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### Krug, H.F.
Technologiegespräch des BMBF, Berlin, DE, 11-26

### Krug, H.F.
Symposium on In Vitro Medical Device Testing, Johns-Hopkins-University, Baltimore, US, 12-10 thru 11

### Richner, P.
The transformation of the existing building stock: A precondition for a sustainable future, COST Meeting, Wien, AT, 03-14 thru 15

### Richner, P.
Analysis of Catastrophic Failures in Switzerland, ACI Spring Meeting, Minneapolis, US, 04-13 thru 17

### Richner, P.
Forschung und Entwicklung für die Energiewende, Mitgliederversammlung Trägerschaft Energiestadt, Zurich, 04-25

### Richner, P./Zimmermann, M./Weber, R.
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### Richner, P./Zimmermann, M./Weber, R./Largo, R.
NEST – A holistic, dynamic and flexible research platform for sustainable construction, Urban ICERC Conference, Bukarest, BO, 10-18 thru 19

### Caluori, U./Simon, K.
An OCR concept for Historic Prints, IS&T Archiving, Washington DC, US, 04-02 thru 05

### Caluori, U./Simon, K.
Glyph Recognition by Pattern Matching with On-the-fly Generated Patterns/Softcom, Primosten/Split, CR, 09-18 thru 20

### Caluori, U./Simon, K.
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### Glavitsch, U./Simon, K.
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### Glavitsch, U./Szakos, J.
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Media Technology

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Scheller Lichtenauer, M./ Schuetz, P./ Zolliker, P.
Interaction improves judgements of surface reflectance properties / European Conf. on Visual perception, Bremen, DE, 08-25 thru 29 ●

Sprow, I./ Küpper, D./ Baranczuk, Z./ Zolliker, P.
Image quality assessment using a high dynamic range display / 12th International IIC Colour Congress, Newcastle upon Tyne, GB, 07-08 thru 12 ◯

Zolliker, P. / Baranczuk, Z./ Küpper, D./ Sprow, I./ Stamm, T.
Creating HDR Video Content for visual quality assessment using stop motion / Eusipco, Marrakech, MO, 09-09 thru 13 ◯

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Crisan O./Crisan A.D./Vasiliu F./Mercioniu I./Stir M./Nicula R./Hoffmann P.
Direct formation and thermal stability of exchange-coupled FePt-based nanocomposite magnets, Frankfurt, DE, 09-29 thru 10-03 ●

Delval C./Leparoux M.

Equis S./Meylan M./Wasmer K./Jacquot P.
Analyse De L'Usure de Revêtements Durs Par Micro-Interférométrie De Speckle Et Microscopie Holographique Numérique, Orléans, FR, 11-18 thru 22 ● ◯

Hammad H./Vauchers S./Valdivieso F.
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Hoffmann, P.
19th Euro-CVD conference 2013, Varna, BG, 09-01 thru 06 ●

Kuzminykh Y./Dabirian A./Reinke M./Hoffmann, P.
High Vacuum Chemical Vapour Deposition of Oxides: A review of technique development and precursor selection / 19th Euro-CVD conference 2013, Varna, BG, 09-01 thru 06 ●

Kuzminykh Y./Reinke M./Sandu C.S./Bevenuti G./Hoffmann, P.
Complex Decomposition Behaviour of Cu(TMHD)2 in High Vacuum CVD: Combinatorial Co-Deposition with Ti-Isopropoxide / 19th Euro-CVD conference 2013, Varna, BG, 09-01 thru 06 ●

Kwon, H./Leparoux, M./Kawasaki, A.

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Michael, R.
IONS – International OSA Network of Students – International Conference (> 100 participants) for photonic students, Zürich & Lausanne, 01-09 thru 11 ●

Reinke M./Kuzminykh Y./Hoffmann P.
Deposition of Functional Electro-Optic Materials by HV-CVD, Zürich & Lausanne, 01-09 thru 11 ● ◯

Reinke M./Kuzminykh Y./Hoffmann P.
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Reinke M./Kuzminykh Y./Hoffmann P.
Titanium Tetra-Isopropoxide Decomposition Performance in the Presence of a β-Diketonate Precursor / 19th Euro-CVD conference 2013, Varna, BG, 09-01 thru 06 ●

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«Effect of laser surface texturing on tribological behavior in sliding surfaces» EDMMX Research day 2013, EPFL, Lausanne, Lausanne, 06-09-2013 ◯

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Analyse de l'usure de revêtements durs par micro-interférométrie de speckle et microscopie holographique numérique Mesures et Techniques Optiques pour l'Industrie – CMOI 2013, Orléans - France, FR, 11-18 thru 22 ●
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<td>Opris, D.M.</td>
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Ionic incorporation of cyanine dyes into a methyl methacrylate polymer for photovoltaic applications, Lausanne 09-06 | ◆                                                                                               |
| **Zhang, H., Wicht, G., Nüesch, F., Hany, R.**                       | Near infrared absorbing cyanine dyes for visibly transparent organic solar cells, Nextgen Nano PV Conference, IES Cargèse, Corsica, FR, 04-01 thru 06 | ◎                                                                                               |
| **Adamaki, V., Clemens, F., Pennock, S.R., Taylor, T., Bowen, C.R.**  | **Manufacture and characterization of Magneli phases conductive ceramic fibres**, Cancun, MA, 08-11 thru 15 | ✔                                                                                               |
| **Blugan, G.**                                                       | **Meet the Experts (Implants):** Implantable ceramic MEMS electrodes for cardiac pace makers, Interlaken 04-22 thru 24 | ◆                                                                                               |
| **Bora, D.K.**                                                       | **Calchage Battery kickoff event, LBNL Operando NEXAFS spectroscopy for studying electrochemical processes in energy related materials, Berkeley, US, 05-01** | ◆                                                                                               |
| **Bora, D.K.**                                                       | **International exploratory workshop – Soft X rays, electrochemistry and energy materials, Understanding the nature of electron hole during photoelectrochemical water splitting with soft X rays, Empa Akademie, Dübendorf 06-02 thru 04** | ◆                                                                                               |
| **Bortolani, F./Clemens, F./Fernandez, J.F.**                       | Ferroelectrics UK 2013: Synthesis and characterisation of single KNN-based piezoelectric fibers, Sheffield, GB, 01-17 thru 18 | ◆                                                                                               |
| **Boudoire, F.**                                                     | 29th annual meeting of the Swiss Working Group on Surface and Interface Science: ’From polymers to oxides: A novel bottom-up approach to grow hematite sub-micro and nanostructures’, Fribourg 01-25 | ◆                                                                                               |
| **Boudoire, F.**                                                     | Workshop on Patterns and Hydrodynamic Instabilities in Reactive Systems: ’Hematite nanopatterning using electrohydrodynamic lithography’, Brussels, BE, 05-14 thru 17 | ◆                                                                                               |
| **Boudoire, F.**                                                     | Swiss NanoConvention: ‘Efficient light trapping on patterned oxide photoanode surface for application in water splitting’, Basel 05-23 thru 24 | ◆                                                                                               |
| **Boudoire, F.**                                                     | Empa PhD Students’ Symposium, 3rd place Oral Presentation award: ’Visible light trapping in microstructured oxide photoanodes for solar water splitting’, Empa Akademie, Dübendorf 10-23 | ◆                                                                                               |
| **Braun, A.**                                                        | Solar hydrogen generation by water splitting in photoelectrochemical cells, Universität Konstanz, Physikalisches, DE, 01-29 | ◆                                                                                               |
| **Braun, A.**                                                        | Clean and Greentech Workshop, Pretoria, ZA, 02-10 thru 14 | ◆                                                                                               |
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| **Braun, A.**                                                        | Soot under X-rays: Empa ColloquiumNatural Resources and Pollutants/NAREP Seminar, Empa Akademie, Dübendorf 03-04 | ◆                                                                                               |
| **Braun, A.**                                                        | MRS Spring Meeting: Electrochemical In-situ and Operando Analyses of Batteries, Ceramic Fuel Cells, Gas Sensors and Photo-electroch. Cells, San Francisco, US, 04-1 thru 08 | ◆                                                                                               |
| **Braun, A.**                                                        | DoE PEC Working Group Meeting, Stanford, US, 04-01 | ◆                                                                                               |
| **Braun, A.**                                                        | Photo-synthetic proteins for technological applications: biosensors and biochips, Antwerpen, BE, 04-10 | ◆                                                                                               |
| **Braun, A.**                                                        | X-ray spectroscopy and scattering methods for lithium battery studies; PSI Elektrochemistagung 2013, PSI-Villigen 04-24 | ◆                                                                                               |
| **Braun, A.**                                                        | Nanostructured Iron Oxide: The Inorganic Backbone for Artificial Photosynthesis”; International Conference on Advanced Complex Inorganic Nanomaterials, Namur, B, 07-16 | ◆                                                                                               |

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**Karageorgaki, C./Ernst, K.-H.**  
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**Lewin, E.**  
Bonding at the interface, probing the inner nature of nanocomposites, Strasbourg, FR, 05-28 ♦ ☺

**Lewin, E./Patscheider, J.**  
«A1N-based optically transparent hard nanocomposite coatings: going from Si to Sn», ICMCTF 2013, San Diego, CA, US, 04-29 ■ ♦

**Marioni, M. A.**  
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**Müller, U.**  
32nd International Conference on Thermoelectrics (ICT2013), Kobe, JP, 06-30-07-04 ♦

**P. H. Michael Böttger, Andrei V. Gusarov, Valery Shklover, Jörg Patscheider, Matthias Sobiech**  
Influence of arc-evaporation droplets on anisotropy of multilayer metal nitrides, Strasbourg, FR, 05-30 ♦

**Patscheider, J./Lewin, E.**  
«Optically transparent hard nanocomposite coatings», Inauguration Nanocenter, Uni Rzeszow, Rzeszow, PL, 05-21 ◆ ☺

**Patscheider, J./Lewin, E.**  
Ternary A1N-based optically transparent hard nanocomposite coatings, 11II. IMRC, Cancun, M1, 08-13 ♦ ☺

**Patscheider, J./Lewin, E.**  
Optically transparent coatings by adding Si, Ge and Sn to A1N, AEPSE 2013, Jeju, KR, 08-28 ♦ ☺

**Patscheider, J./Lewin, E.**  
«At play in the garden of group 14: Al-A-N ternary coatings», TACT2013, Taipei, TW, 10-07 ◆ ☺

**Patscheider, J./Lewin, E./Pélisson-Schecker, A./Parlinska-Wojtan, M.**  
A1N-based optically transparent hard coatings, Seminar CAPST, SKKU, Seoul, KR, 09-02 ◆ ☺

**Seibel, J./Zoppi, L./Parschau, M./Ernst, K.-H.**  
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<td>Protesescu, L./Kovalenko, M.V.</td>
<td>Molecular level understanding of inorganically-capped colloidal nanocrystals/Workshop on hybrid materials, Nicosia, CY, 05-23</td>
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<td>Reinhard, P./Chirila, A./Pianezi, F./Kranz, L./Fella, C.M./Nishiwaki, S./Buecheler, S./Tiwari, A.N.</td>
<td>Influence of Composition Modifications on Structural and Electrical Properties of Flexible Cu(In,Ga)Se2 Solar Cells with Reduced Absorber Thickness/MRS Spring meeting, San Francisco, US, 04-01 thru 05</td>
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<td>Reinhard, P./Pianezi, F./Bissig, B./Fella, C.M./Nishiwaki, S./Buecheler, S./Tiwari, A.N.</td>
<td>Flexible Cu(In,Ga)Se2 solar cells with absorber thickness of 1 µm deposited at higher evaporation rates/28th European photovoltaic solar energy conference and exhibition (28th EU-PVSEC), Paris, FR, 09-30 thru 10-04</td>
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<td>Reinhard, P./Chirila, A./Pianezi, F./Nishiwaki, S./Buecheler, S./Tiwari, A.N.</td>
<td>High efficiency flexible Cu(In,Ga)Se2 solar cells/20th anniv. Active Matrix-Flat Panel Display (AM-FPD), Kyoto, JP, 07-02 thru 05</td>
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<td>Romanyuk, Y.E.</td>
<td>Solution-processed chalcogenide solar cells/Workshop Next generation PV, Cargese, FR, 04-01 thru 06</td>
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<td>Romanyuk, Y.E./Uhl, A.R./Fella, C.M./Hagendorfer, H./Tiwari, A.N.</td>
<td>Solution-Processed Chalcogenide Thin Film Solar Cells/MRS Fall meeting, Boston, US, 12-01 thru 06</td>
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<td>Tiwari, A.N.</td>
<td>Fortschritte bei der Forschung und der industriellen /National PV Tagung, Basel 03-11 thru 12</td>
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<td>Tiwari, A.N.</td>
<td>Flexible CIGS solar cells with reduced absorber thickness/4th International Workshop on CIGS PV Technology, Berlin, DE, 04-17 thru 18</td>
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<td>Tiwari, A.N.</td>
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<td>Tiwari, A.N.</td>
<td>Manufacturing innovation as the key to next generation PV products/EC-JRC International Conference, Ispra, IT, 06-24 thru 25</td>
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<td>Tiwari, A.N.</td>
<td>Advances in Thin Film PV: CIGS &amp; GdTe/28th EU PVSEC, Paris, FR, 09-30 thru 10-03</td>
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<td>Tiwari, A.N.</td>
<td>Advances in Thin Film PV: CIGS &amp; GdTe /Renewable Energy in the service of humanity UNESCO Workshop, Paris, FR, 10-03</td>
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<td>Tiwari, A.N.</td>
<td>Progress of thin film solar cells towards &gt;20% efficiency and low manufacturing cost /28th EU PVSEC, Taipei, CN, 10-28 thru 11-1</td>
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<td>Tiwari, A.N.</td>
<td>Advances in high efficiency flexible solar cells/Plastic Electronics Conference 2013, Dresden, DE, 10-8 thru 10</td>
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<td>Uhl, A.R./Fuchs, P./Fella, C.M./Romanyuk, Y.E./Tiwari, A.N.</td>
<td>Rapid thermal processing of nanoparticle precursors for CuInSe2 solar cell absorber layers/JSP-A-MRS Conference, Kyoto, JP, 09-16 thru 20</td>
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<td>Walter, M./Krvavchyk, K./He, M./Bodnarchuk, M./Protesescu, L./Kovalenko, M.V.</td>
<td>Monodisperse Sn, Sb and SnGe nanocrystals for high performance Lithium-ion and Sodium-ion batteries/ETH Industry Day, Zurich 09-12</td>
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<td>Walter, M./Krvavchyk, K./He, M./Kovalenko, M.V.</td>
<td>Highly Monodisperse Tin Nanocrystals as Anode Material in High-Performance Lithium-ion Batteries/Swiss Chemical Society Fall Meeting, Lausanne 09-06</td>
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**Walter, M./Kravchyk, K./Protesescu, L./Bodnarchuk, M./Krumeich, F./Yarema, M./Guntlin, C./Kovalenko, M.V.**
Highly monodisperse Tin nanocrystals as an advanced active anode material in high-performance lithium ion batteries/NanoEvent ‘NextNanoStars’, Basel 03-21 ◆

**Walter, M./Kravchyk, K./Protesescu, L./Bodnarchuk, M./Krumeich, F./Yarema, M./Guntlin, C./Kovalenko, M.V.**
Highly monodisperse Tin nanocrystals as an advanced active anode material in high-performance lithium ion batteries/Swiss Nanconvention, Basel 05-23 thru 24 ◆

**Werner, M./Fella, C.M./Gretener, C./Romanyuk, Y.E./Tiwari, A.N.**
CZTS solar cell absorbers deposited by sequential ultrasonic spray pyrolysis/28th EU PVSEC, Paris, FR, 10-09 thru 4 ◆

**Werner, M./Fella, C.M./Haass, S./Romanyuk, Y.E./Tiwari, A.N.**
Investigation of a two-solution approach for sprayed kesterite films for solar cells/4th European Kesterite Workshop, Berlin, DE, 11-20 thru 22 ◆

**Civil and Mechanical Engineering**

**Meier, U.**
Zukunftsszenarien für Faserkunststoffverbunde im Brückenbau/Civil Composites e.V. (CCeV), IHK-Schwaben; Augsburg, DE, 03-13 ◆ ○

**Meier, U.**
Carbon Fibers: Example of a Chinese Swiss Cooperation in Structural Engineering/ Chinese Association of Materials Switzerland (CAMSTS), ETH Zurich 03-16 ◆ ○

**Meier, U.**
Innovation and Reliability with High Performance Fiberous Composite Materials in Bridge Engineering/2013 International Bridge and Tunnel Technology Congress, Shanghai Rainbow Hotel, Shanghai, CN, 04-12 ◆ ○

**Meier, U.**
Advanced Research Topics of FRP in Civil Engineering/Civil Engineering Seminar, University of Transport and Communication (UTC), Hanoi, VN, 04-15 ◆ ○

**Meier, U.**
Long-term Experience with Applications of CFRP Composites in Civil Engineering in Switzerland, University of Transport and Communication (UTC), Hanoi, VN, 04-15 ◆ ○

**Meier, U.**
Overview, Trend and Perspective of FRP in Civil Engineering/Civil Engineering Seminar, University of Transport and Communication (UTC), Hanoi, VN, 04-15 ◆ ○

**Meier, U.**
Advanced Research Topics of FRP in Civil Engineering/ Seminar at Faculty of Civil Engineering, Water Resources University (HWRU), Hanoi, VN, 04-16 ◆ ○

**Meier, U.**
Long-term Experience with Applications of CFRP Composites in Civil Engineering in Switzerland/ Seminar at Faculty of Civil Engineering, Water Resources University (HWRU), Hanoi, VN, 04-16 ◆ ○

**Meier, U.**
Overview, Trend and Perspective of FRP in Civil Engineering/ Seminar at Faculty of Civil Engineering, Water Resources University (HWRU), Hanoi, VN, 04-16 ◆ ○

**Meier, U.**
Selected Concepts for FRP in Civil Engineering/ International New Construction Technology Conference, Transportation Department, Cao Lanh City, Dong Thap Province, VN, 04-18 ◆ ○

**Meier, U.**
The Swiss Experience with Fiber Reinforced Polymers in Structural Engineering/International New Construction Technology Conference, Transportation Department, Cao Lanh City, Dong Thap Province, VN, 04-18 ◆ ○

**Meier, U.**
Innovation in Bridge Engineering due to Advanced Composite Materials/Bridge Innovation Summit 2013, Beijing Northeast Marriott, Beijing, CN, 04-26 ◆ ○

**Meier, U.**
Long-Term Reliability of Carbon Fiber Reinforced Polymers in Civil Construction/4th International Conference on Integrity, Reliability and Failure IRC2013, Hotel Vidamar, Funchal, Madeira, PT, 06-24 ◆ ○

**Meier, U.**
Environmental Friendly Footbridge Made of CFRP, GFRP and Timber/19th International Conference on Composite Materials ICCM19, Hall Viger, Palais des congres, Montreal, CA, 08-02 ◆ ○

**Meier, U.**
Try the impossible to achieve the possible/ Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures SMAR 2013, TR Istanbul Technical University (ITU), Istanbul, TR, 09-10 ◆ ○

**Meier, U.**
Opportunities and challenges for fiber reinforced polymers in structural engineering in seismic-active areas/Yuzuncu Yil University 2013 International Van Earthquake Conference, Rescute Hotel, Van, TR, 10-23 ◆ ○
Acoustics/Noise Control

Bradford Grover/ Frances King/Stefan Schoenwald/Phalguni Mukhopadhyaya/David van Reenen
Measurement of airborne sound transmission loss of a small-scale assembly using vacuum insulated panels, 11th International Vacuum Insulation Symposium VIS 2013, Empa Akademie, Dübendorf 19-09  

Churchill, C./Hopkins C.
Prediction of the Dynamic Properties of a Cross Laminated Timber Plate from an Investigation of the Eigenmodes Using a Scanning Laser Vibrometer, AIA-DAGA 2013, Meran, IT, 03-18 thru 21  

Churchill, C./Hopkins C.
Development of SEA models of composite heavy weight-lightweight floors by incorporating measured stiffness data for suspended ceiling hangers, International Congress and Exposition on Noise Control Engineering (INTER-NOISE 2013), Innsbruck, AT, 09-15 thru 18  

Czolbe, C./Wunderli, J. M./Fischer, F.
sonRAIL emission web tool – A new web application of the Swiss method on railway noise calculation released in 2013, 11th International Workshop on Railway Noise, Uddevalla, SE, 09-9 thru 13  

Eggenschwiler, K.
Nutzungsabhängige Raumakustik, 4. HolzBau Spezial Akustik & Brandschutztagtage 2013, Bad Wörishofen, DE, 03-13 thru 14  

Eggenschwiler, K.
Fluglärm – eine komplexe technische und gesellschaftliche Herausforderung, Technische Gesellschaft Zürich TGZ, Zurich 11-05  

Eggenschwiler, K.
Physikalische und normative Grundlagen der Raumakustik, Expertentag Bauphysik: Raumakustik, CPI – Weiterbildung für nachhaltiges Dämmen, Bern 12-12  

Geyer, Ch./Bütikofer, R./Müller A./Schuppisser B./Sanavic A.
First year of the Lightweight Test Suite in Dübendorf, Measurements of the acoustical performance of timber constructions, AIA-DAGA 2013, Meran, IT, 03-18 thru 21  

Geyer, Ch./Bütikofer, R./Müller A./Schuppisser B./Sanavic A.
The acoustical performance of Swiss timber constructions, International Congress and Exposition on Noise Control Engineering (INTER-NOISE 2013), Innsbruck, AT, 09-15 thru 18  

Heutschi, K.
9 Jahre nach SonRoad, SGA Frühlingstagung, Fribourg 04-18  

Heutschi, K.
Bedeutung der Meteorologie für Strassenlärmprognosen, SGA Frühlingstagung, Fribourg 04-18  

Heutschi, K./Pieren, R.
Auralization of Wind Turbines, AIA-DAGA 2013, Meran, IT, 03-18 thru 21  

Lee, P. J./Lee, B. K./Griffin, M.
Evaluation of floor vibrations induced by walking in reinforced concrete buildings, International Congress and Exposition on Noise Control Engineering (INTER-NOISE 2013), Innsbruck, AT, 09-15 thru 18  

Locher, B./Wunderli, J. M., Hafner, M./Köstli, K.
Noise emission of parked trains, International Congress and Exposition on Noise Control Engineering (INTER-NOISE 2013), Innsbruck, AT, 09-15 thru 18  

Schäffer, B./Zellmann, Ch.,/Plüss S./Thomann G.
Estimating the effects of aircraft noise on the population using the Zurich Aircraft Noise Index ZFI, International Congress and Exposition on Noise Control Engineering (INTER-NOISE 2013), Innsbruck, AT, 09-15 thru 18  

Schoenwald, S./Zeitler B./Sabourin, I./King, F.

Wunderli, J. M.
Interaktion Strassenverkehr – Umwelt, Fokus Lärm, ZHAW school of engineering, Winterthur 09-04  

Zeitler, B./Schoenwald, S./King, F.
Flanking Sound Insulation with Assemblies with high axial and lateral load-bearing capacity, International Congress and Exposition on Noise Control Engineering (INTER-NOISE 2013), Innsbruck, AT, 09-15 thru 18  

Zeitler, B./Schoenwald, S./Sabourin, I.
Impact Sound Insulation of Wood-Concrete Hybrid Assemblies, International Congress and Exposition on Noise Control Engineering (INTER-NOISE 2013), Innsbruck, AT, 09-15 thru 18  

Zellmann, Ch./Wunderli, J. M./Schäffer, B.
sonAIR – data acquisition for a next generation aircraft noise simulation model, International Congress and Exposition on Noise Control Engineering (INTER-NOISE 2013), Innsbruck, AT, 09-15 thru 18  

Aigner, N./Colombo, J./Burgett, I./Del Gado, E.
Building a mesoscale model of the secondary wood cell wall, The XIIth Cell Wall Meeting, Nantes, France, FR, 07-11  

Aigner, N./Colombo, J./Burgett, I./Del Gado, E.
Building a mesoscale model of the secondary wood cell wall, International IUFRO Conference MeMoWood Measurement methods and Modelling approaches for predicting desirable future Wood properties, Nancy, FR, 10-03  

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Aigner, N./Colombo, J./Burgett, I./Del Gado, E.
Building a mesoscale model of the secondary wood cell wall, The XIIIth Cell Wall Meeting, Nantes, France, FR, 07-11  

Aigner, N./Colombo, J./Burgett, I./Del Gado, E.
Building a mesoscale model of the secondary wood cell wall, International IUFRO Conference MeMoWood Measurement methods and Modelling approaches for predicting desirable future Wood properties, Nancy, FR, 10-03  

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**Arnold, M.**
Precision of natural weathering tests according to EN 927-3/COST FP1006 Workshop 'Process and Service life modelling', Ghent University, Ghent, Belgium, BE, 04-17 thru 18 ◇

**Burgert, I.**
Biomaterial Wood, Kolloquium University of Basel 04-10 ◇

**Burgert, I.**
Holz mit verbesserten Materialeigenschaften/Laubholzverwendung in der Nordwestschweiz, Schloss Ebenrain, Sissach 04-10 ◇

**Burgert, I.**
From plant structure and function to bio-inspired materials/COST Action FP1105, Napier University, Edinburgh, UK, 05-14 ◇

**Burgert, I.**
Plant structure and function – from biological to bio-inspired materials, MIT Boston, US, 05-23 ◇

**Burgert, I.**
Plant actuation and stress generation/INdAM Meeting «The Mathematics of Cells and Tissues», Cortona, IT, 09-02 ◇

**Burgert, I.**
Holzbasierte Materialien/IndustryDay, ETH Zürich 09-12 ◇

**Burgert, I.**
Bio-inspired functionalization of wood and wood cell walls/Engineering Life 2013: Bio-molecular principles for novel methods and materials, Dresden, DE, 09-17 ◇

**Burgert, I.**
Bio-inspired wood materials/Conference on Intelligent Materials, DGM, Kiel, DE, 09-26 ◇

**Burgert, I.**
Wood functionalization/10. Werkstoffkongress, Montanuniversität Leoben, AT, 11-06 ◇

**Burgert, I./Eder, M./Gierlinger, N./Fratzl, P.**
The nanostructural and micromechanical design of plant cell walls/Conference on Cellulose synthesis, structure, matrix interactions and technology, State College, Pennsylvania, US, 05-17 ◇

**Cabane, E. /Keplinger, T. /Burgert, I.**
Chemical modification of wood via cell wall initiated polymerization/ACS 246th National Meeting, Convention Center, Indianapolis, US, 09-08 ◇

**Civardi, C.**
Uptake and dissemination of copper nano particles, NRP 64 Meeting. Lausanne 03-16 thru 18 ◇

**Gierlinger, N.**
Insights into plant cell wall molecules through Confoocal Raman microscopy/Nordic Vibrational Spectroscopy Conference, Angstrom laboratories, Uppsala, SE, 10-22 ◇

**Gierlinger, N.**
Cell wall assembly on the micro- and nano level revealed by Raman, SNOM and AFM/FP1105 COST Action First Workshop, INNVENTIA, Stockholm, SE, 12-03 ◇

**Gierlinger, N. /Burgert, I.**
Cell wall formation in young poplar trees studied in-situ by Confocal Raman microscopy/Conference on Cellulose synthesis, structure, matrix interactions and technology, State College, Pennsylvania, US, 05-16 ◇

**Josset, S./Orsolini, P./Tingaut, P./Zimmermann, T.**
Environmentally friendly materials from renewable resources/Swiss Nano Convention, Basel 05-23 thru 24 ◇

**Josset, S./Tingaut, P./Zimmermann, T./Orsolini, P.**
Environmentally friendly nanofibrillated materials from renewable sources/Statusseminar 2013 S-WIN, PSI - Villigen 04-24 ◇

**Künniger, T.**
Nanoparticle in Fassadenbeschichtungen – Funktionen und Effekte/Nanomaterialien in Fassadenbeschichtungen, Empa Akademie, Dübendorf 11-14 ◇

**Luss, S. /Rosner, S. /Gierlinger, N. /Schwaninger, M.**
Hydraulic properties and wood density of Norway spruce wood estimated by Fourier transform near infrared spectroscopy (FT-NIR)/Clim Tree 2013, ETH, Zurich 09-01 thru 05 ◇

**Orsolini, P./Josset, S./Tingaut, P./Zimmermann, T.**
Microfibrillated cellulose from waste resources; possibilities of low-cost production on the semi-industrial scale/Biopol 2013, 4th International Conference on Biodegradable and Biobased Polymers, National Research Council (CNR), Rome, IT, 10-01 thru 03 ◇

**Pérez de Larraza Alamán, U. /Sekaou, H. /Estella, P. /Tingaut, P. /Zimmermann, T.**
Nanocellulose Membranes with antifouling properties for water purification technologies/Biopol 2013, 4th International Conference on Biodegradable and Biobased Polymers, National Research Council (CNR), Rome, IT, 10-01 thru 05 ◇

Smart honeycomb devices inspired by ice plant hydro-actuated seed dispersal/EUROMAT, European Congress and Exhibition on advanced Materials and Processes, Sevilla, ES, 11-09 ◇
Razghandi, K./Bertinetti, L./Burgert, I./Fratzl, P.
Ice Plant Hydro-actuated Seed Dispersal An Inspiration for a biomimetic design/Summer Workshop on Mechanics in Biology, Berlin, DE, 09-17

Razghandi, K./Bertinetti, L./Guiducci, L./Turcaud, S./Rüggeberg, M./Dunlop, J./Neinhuis, C./Burgert, I./Fratzl, P.

Rüggeberg, M.
Convertible wooden elements for architecture and construction/Symposium of the Material Research Centre, ETH Zürich 06-13

Rüggeberg, M./Burgert, I.
Convertible wooden elements for architectural design/GdR Mephy Workshop: Moving Without Muscles – walkers, jumpers, plants, Grenoble, FR, 09-20

Rüggeberg, M./Saxe, F./Metzger, T.H./Sundberg, B./Fratzl, P./Burgert, I.
Improved orientation analysis of cellulose in complex plant tissues by X-ray diffraction/The 13th Cell wall meeting, Centre des Congrès, Nantes, FR, 07-08

Salvador, J.H./Azpeitia, M./Orsolini, P./Tingaut, P./Zimmermann, T./Tejado, A.
How impurities (hemicelluloses, inks and lignin) affect the functionalization of cellulose fibres/6th international WPC symposium, Biarritz, FR, 09-23 thru 24

Schubert, M.
Fungal laccases as a tool for wood functionalization, IRG Meeting, Stockholm, SE, 06-19

Schwarze, F.
Fungi go classic/Festvortrag im Rahmen der Exmatrikulation der Medizinabsolventen im Greifswalder Dom, Universitätsmedizin der Ernst-Moritz-Arndt-Universität Greifswald, DE, 06-28 thru 30

Schwarze, F.
Fungi go classic/IDB-ETH Seminar Die Grossen Hölzer, ETH Zürich 09-19

Schwarze, F.
Methods for detecting wood decay in living trees/XIII-Simpósio de Manejo de Doenças de Plantas: Desafios e Perspectivas, Universidade Federal de Lavras, BR, 10-6 thru 10

Sehaqui, H.
Nanocellulose applications: overview of main uses and reinforcement in composites/Workshop on Biorefinery and Nanocellulose, Empa Akademie, Dübendorf 09-17

Sehaqui, H./Liu, P./Mathew, A.P./Zimmermann, T./Tingaut, P.
Adsorption of heavy metal ions (Cu2+) onto biobased nanofibers/Nano Water Dresden, Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Dresden, DE, 04-17 thru 18

Sehaqui, H./Zimmermann, T./Tingaut, P.
Hydrophobic nanofibrillated cellulose-based nanopaper through a mild chemical functionalization approach/2013 TAPPI International Conference on Nanotechnology for Renewable Materials, KTH Royal Institute of Technology campus Stockholm, SE, 06-24 thru 27

Tingaut, P.
Potential applications of Nanofibrillated cellulose from wood / Innovation in the Forest-based sector – Prerequisite for a green economy / United-Nations, Geneva 04-22

Tingaut, P./Zimmermann, T.
Functional materials from cellulose-based nanofibers, University of Bordeaux, FR, 11-13

Wang, X./Keplinger, T./Burgert, I.
Chemical and structural characterization of bamboo fibre walls by confocal Raman microscopy/The 8th Pacific Regional Wood Anatomy Conference & Annual Meeting of International Academy of Wood Science, Nanjing, CN, 10-17

Zhang, Z./Sèbe, G./Rentsch, D./Zimmermann, T./Tingaut, P.
Silylated nanofibrillated cellulose as building block for the elaboration of foams with tunable properties/EPNOE-ACS, Nice, FR, 10-21 thru 24

Zimmermann, T.
Angewandte Holzforschung @ Empa, University of Natural Resources and Life Sciences Vienna, AT, 05-14

Zimmermann, T.
What is Nanocellulose?/Workshop on Biorefinery and Nanocellulose, Empa Akademie, Dübendorf 09-16

Zimmermann, T.
Angewandte Holzforschung @ Empa/Rotary Club, Rapperswil 09-23

Zimmermann, T.
Nanocellulose basierte Materialinnovationen/Bayern Innovativ, Holz als neuer Werkstoff, Salzstadel Regensburg, DE, 11-06

Zimmermann, T.
Microfibrillated cellulose and barrier based packaging/Winter Training School: Use of Nanopolysaccharides in Packaging, INP Pagora, Grenoble, FR, 12-12
Zimmermann, T. /Ho, T. T. T. / Tingaut, P. /Caseri, W.
Nanofibrillated cellulose/layered silicates composite films for barrier applications/2013 TAPPI International Conference on Nanotechnology for Renewable Materials, KTH Royal Institute of Technology campus Stockholm, SE, 06-24 thru 27

Živković, V. /Turkulin, H. /Arnold, M. /Pandey, K. K. /Richter, K.
Novel approach to analysis of light source effects to spectral sensitivity of fir wood surfaces/6th European Weathering Symposium EWS, Bratislava, SK, 09-11 thru 13

Kulasinski, K.
Adsorption of water and swelling of complex porous media investigated with Molecular Dynamics simulations, Penn State University, US, 05-16 thru 18

Allegrini J./Dorer V./Carmeliet J.
Validation of CFD simulations with wind tunnel measurements for buoyant flows in street canyons, PhysMod 2013, Surrey, UK, 09-16 thru 18

Allegrini, J./Dorer, V./Kämpf, J./Carmeliet, J.
Modelling the urban microclimate and its influence on building energy demands of an urban neighbourhood, CISBAT 2013, Lausanne 09-09 thru 06

Brunner, S.
Ein Aerogel-Dämmputzsystem im Praxistest und Vakuumisolationspanele (VIP) / Zukunftsperspektiven im Fassadenbau, Wien, AT, 06-07

Brunner, S./Ghazi Wakili K.
11th International Vacuum Insulation Symposium (IVIS2013), Empa Akademie, Dübendorf 09-19 thru 20

Brunner, S./Ghazi Wakili K. /Johansson P.
Vacuum insulation panels (VIP) in refrigerator room, freezing room & fridge / 11th International Vacuum Insulation Symposium (IVIS2013), Empa Akademie, Dübendorf 09-19 thru 20

Carmeliet
Sustainable cities and urban energy systems of the future, Los Alamos National Lab, EES, Los Alamos, US, 08-12

Carmeliet, J.
On the nonlinear elastic behavior of porous media / 18th International Conference of Nonlinear Elasticity of Materials, Ascona 06-09 thru 14

Carmeliet, J./Ferdowsi, B./Griffa, M./Gayer, R./Johnson, P.A./Marone, C.
Microslips as a precursor for dynamically triggered earthquakes / 18th International Conference of Nonlinear Elasticity of Materials, Ascona 06-09 thru 14

Defraeye T./ Aregawi W., Cantré D., Hartmann S., Lehmann E., Carmeliet J., Verbven P., Derome D., Nicolai B.
The hydraulic architecture of leaves from neutron tomography / International Conference on Tomography of Materials and Structures/1st International Conference on Tomography of Materials and Structures, Ghent, BE, 07-01 thru 05

Defraeye T./ Verbven P., Carmeliet J., Derome D., Nicolai B.
Transpiration from stomata via the leaf boundary layer: a microscale modelling approach / Proceedings of the International Conference on Functional Structural Plant Modelling, Sarrieshka, FI, 06-09 thru 14

Derluyn, H.
Studying salt crystallization damage in porous limestone with neutron – X-ray imaging and poromechanical modeling/18th International Conference of Nonlinear Elasticity of Materials, Ascona 06-10 thru 14

Segmentation of salt solution and hydrated salt crystals in porous limestone/ 1st International Conference on Tomography of Materials and Structures, Gent, BE, 07-01 thru 05

Derluyn, H./ Derome, D./ Carmeliet, J./ Stora, E./ Barbarulo, R
Influence of hysteretic moisture transfer on concrete durability/8th International Conference on Fracture Mechanics of Concrete and Concrete Structure, Toledo, SP, 03-10 thru 14

Derluyn, H./ Moonen, P./ Carmeliet, J.
Numerical modeling of salt transport, crystallization and damage in porous limestone / 5th Biot Conference on Poromechanics, Vienna, AT, 07-10 thru 12

Derome D
The role of water in the HTM behavior of wood / COST Action FP 0904. Thermo-Hydro-Mechanical Wood Behavior and Processing Evaluation, processing and predicting of THM treated wood behaviour by experimental and numerical methods, Iasi, RO, 05-09 thru 11

Derome D
The role of water in the behavior of wood / Los Alamos National Lab, EES, Los Alamos, US, 08-14

Derome D/ Abbasion S, Segighi Gilani, M, Moonen,lehmann E, Carmeliet J
Modélisation couplée thermo-hygro-mécanique du bois et validation avec imagerie à neutron/Colloque Interuniversitaire Franco-Québécois sur la Thermique des Systèmes, Reims, FR, 06-03 thru 05

Derome, D./Ahmad Rafsanjani, A./Patera, A./Kulasinski, K./Gayer, R./Carmeliet, J.
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<td>Fumey, B./Weber, R./Dorer, V./Carmeliet, J.</td>
<td>Experience and outlook on the thermo-chemical storage system based on aqueous sodium hydroxide, CISBAT 2013, Lausanne 09-04 thru 06 ◆ ○</td>
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<tr>
<td>Fumey, B./Weber, R./Dorer, V./Carmeliet, J.</td>
<td>Experience on the development of a thermo-chemical storage system based on aqueous sodium hydroxide. ISES2013, Cancun, MX, 11-03 thru 07 ◆ ○</td>
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<td>Ghazi Wakili, K.</td>
<td>High Performance Insulation Materials, 34th AIVC Conference 2013, Athens, GR, 09-25 thru 26 ◆ ○</td>
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<td>Ghazi Wakili, K.</td>
<td>High Performance Insulation Materials, 44th International HVAC&amp;R Congress and Exhibition 2013, Belgrade, RS, 12-4 thru 6 ◆ ○</td>
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<td>Guizzardi, M./Derome, D./Vonbank, R./Carmeliet, J.</td>
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<td>Hugi, E./Terrasi, G./Maluk, C./Bisby, L.</td>
<td>Fire behavior of slender concrete beams prestressed with CFRP tendons/ICCS 17, Porto, PRT, 06-17 thru 21 ◆ ○</td>
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<td>4th Annual Sustainable Building Materials &amp; Construction Technologies</td>
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<td>High Performance Thermal Insulation Workshop, ZAE Bayern, Würzburg, DE</td>
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<td>Impingement and absorption of droplets on porous stones using neutron imaging technique</td>
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<td>The influence of the approach flow on the flow within a shear-driven cavity.</td>
<td>International Workshop on Physical Modelling of Flow and Dispersion Phenomena (PHYSMOD 2013), Surrey, UK</td>
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<td>A Thermography Study to Understand the Influence of underneath Cavity on Life-time Enhancement of Building Integrated Photovoltaic.</td>
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<td>Assessment of renewable energy integration for a village using the energy hub concept</td>
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<td>Experimental design of spatially and temporally resolved PIV measurements.</td>
<td>International Workshop on Physical Modelling of Flow and Dispersion Phenomena (PHYSMOD 2013), Surrey, UK</td>
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<tr>
<td>The influence of roof shape on flow and dispersion in an urban street canyon.</td>
<td>International Workshop on Physical Modelling of Flow and Dispersion Phenomena (PHYSMOD 2013), Surrey, UK</td>
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<td>A comprehensive and consistent tomographic dataset to document the swelling of softwood tissues/</td>
<td>1st International Conference on Tomography of Materials and Structures, UGCT, Gent, BE</td>
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<td>Hygro-mechanical behaviour of wood investigated by Synchrotron radiation X-ray Tomographic Microscope</td>
<td>Joint User meeting PSI 2013, PSI – Villigen</td>
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<td>3D Experimental investigation of the hygro-mechanical behaviour of wood at cellular and sub-cellular scale: detection of local deformations</td>
<td>1st International Conference on Tomography of Materials and Structures, UGCT, Gent, BE</td>
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<td>A poromechanics approach to predict the effective swelling behavior of cellular materials</td>
<td>5th Biot Conference on Poromechanics, Vienna, AT</td>
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<td>Anisotropic Swelling Behavior of Cellular Solids</td>
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<td>Wind tunnel investigation of the wake behind two porous high-rise buildings with the same porosity.</td>
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<td>Aerogel Hochdämmputz von der Entwicklung bis zur Fertigstellung</td>
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<td>Stahl, T./ Zimmermann, M./Brunner, S./ Koebel, M.</td>
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<td>Zweifel, G./Struck, Ch./Tilenkamp, F./Keller, T./Dorer V./Weber, A./Gaegauf, Ch./Sattler, M.</td>
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Kaufmann, J.
Ground support 2013, Perth, AU, 05-13 thru 15

Kulik, D.A./Kosakowski, G./Lothenbach, B./Wieland, E./Berner, U.
Local- and partial equilibria in thermodynamic and transport modelling of cement systems, Ghent, BE, 05-06 thru 08

Le Saout, G./Lothenbach, B./Taquet, P./Fryda, H./Winnefeld, F.
Hydration study of a calcium aluminate cement blended with anhydrite. 1st International Conference on the Chemistry of Construction Materials, Berlin, DE, 10-07 thru 09

Leemann, A.
Konferenzen über Alkali-Kieselsäure-Reaktion, Berlin, DE, 03-07

Leemann, A.
Cement quality and drinking water. European Committee for the study for corrosion and protection of pipes and pipeline systems – Drinking water, waste water, gas and oil (Cecocor Congress), Florence, IT, 06-04 thru 06

Leemann, A./Hoffmann, C.
Concrete erosion in nitrification basins of wastewater treatment plants. Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2013), Istanbul, TR, 09-09 thru 11

Leemann, A./Nygaard, P./Lura, P.
Impact of admixtures on the plastic shrinkage cracking of self-compacting concrete. 7th International RILEM Symposium on Self-Compacting Concrete, Paris, FR, 09-09 thru 11

L'Hopital, E./Lothenbach, B./Kulik, D.A./Srivener, K.
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Aluminium Uptake in Calcium Silicate Hydrate. TRANSCEND Conference Water Transport in cementitious materials, Guildford, UK, 11-03 thru 06

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Thermodynamic data for cementitious systems: katoite. Goldschmidt conference, session 23e, Florence, IT, 08-25 thru 30

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Lura, P.
Lecture «Intellectual property rights and patenting – from a patenting officer’s point of view», in Marie Curie Training Course 6, Innovation of cementitious materials, Lyon (Lafarge), FR, 02-11

Lura, P.
Short course on «Early-age properties and early-age cracking» at Riga Technical University, Riga, LV, 04-25 thru 26

Lura, P.
Short course on «Early-age early-age cracking in cementitious materials» for Siam Cement Group, Bangkok, TH, 10-08 thru 09

Lura, P.
«Die Steinzeit der Zukunft». ETH Zürich: Treffpunkt Science City – Materialien am Limit, Zurich 11-24

Lura, P./Leemann, A./Di Bella, C.
The influence of concrete mixture composition on the risk of plastic shrinkage cracking. Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2013), Istanbul, TR, 09-09 thru 12

Lura, P./Wyrzykowski, M.
«Moisture dependence of thermal expansion in cement-based materials» in Workshop 'Strains induced by phase changes in deformable porous solids: What about building materials?' organized by Ecole des Ponts ParisTech/Lafarge, Paris, FR, 07-08 thru 09

Martin, L.H.J./Winnefeld,F./Müller, C.J./Lothenbach, B.
Influence of limestone on the hydration of calcium sulfoaluminate cements, 1st International Conference on Sulphaoluminate Cement: Materials and Engineering Technology, Wuhan, CN, 10-23 thru 24

Nygaard, P.V./Klinghoffer, O.
Corrosion rate measurements of steel in concrete – Evaluation of a new algorithm for analysis of galvanostatic potential transients. Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2015), Istanbul, TR, 09-09 thru 13
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Rossen, J./Lothenbach, B./Scrivener, K.

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Optimising the experimental conditions for analyzing calcium silicate hydrates in a white Portland cement paste. 3rd Cement and Concrete Science conference 2013 (CSC 2013), Portsmouth, UK, 09-02 thru 09.

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Modeling Water Transport in Concrete at Early Age. TRANSCEND Conference Water Transport in cementitious materials, Guildford, UK, 11-03 thru 06.

Wyrzykowski, M./Kaufmann, J./Lura, P./Kiesewetter, R./Baumann, R.
Pore structure of mortars with cellulose ether additions / The Fourth International Drymix Mortar Conference idmmc four, Nürnberg, DE, 03-18.

Branner, A.J.
Damage Accumulation Investigation in Fibre-Reinforced Polymer-Matrix Composites: From Test Coupons to Structural Elements, 6th International Conference on Composites Testing and Model Identification, Aalborg, DK, 04-22 thru 24.

Branner, A.J./Tannert, T.
Schallenergyspeicheranalyse ausgewählter Zugversuche an unterschiedlichen Kleebrücken für Holz, Deutsche Gesellschaft für Zerstörungsfreie Prüfung 2013, Dresden, DE, 05-06 thru 08.

Koller, R./Stoecklin, I./Terrasi, G.P.

Maluk, C./Bisy, L./Terrasi, G.

Przybilla, C./Koller, R./Cantelli, A./Castillo, E.
A Model Allowing for the Influence of Geometry and Stress in the Assessment of Fatigue Data, 13th International Conference on Fracture, Beijing, CN, 06-16 thru 21.
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<td>Variable-stiffness skin concept for camber-morphing airfoils, ICAST 2013, Palm Beach, AW, 10-05 thru 10</td>
<td>Vortrag: Laser welding textiles and ultrathin membranes, Avantex Symposium, Frankfurt, DE, 06-12</td>
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<td>Holdsworth, S.R.</td>
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<td>Variable-stiffness skin concept for camber-morphing airfoils, ICAST 2013, Palm Beach, AW, 10-05 thru 10</td>
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<td>Nano- and mikroskopische Fasern für medizinische Anwendung, Fasern in der Medizin, Forschungsinstitut Hohenstein, Bönningheim, DE, 07-07</td>
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<td>Rossi, R. M.</td>
<td>Analysis of the physiological stress of firefighters protective clothing, Avantex Symposium, Frankfurt, DE, 06-12</td>
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<td>Characterisation of clothing physiological properties of functional textiles with one-, two- and three dimensional methods, Internationale Chemiefasertagung, Dornbirn, AT, 09-11 thru 13</td>
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<td>Friction of ice sublimating from rough surfaces, WTC 2013 / 5th World Tribology Congress, Torino, IT, 09-08 thru 13</td>
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<td>Scherer, L.</td>
<td>Sensors based on polymer optical fiber fabrics, Sensors &amp; MediTex, Greiz, DE, 01-17</td>
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<td>Leuchttexillen – jetzt und in der Zukunft, Innovation Day, Empa Akademie, Dübendorf 08-29</td>
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<td>Swelling behaviour and permeability switching in light-responsive amphiphilic polymer conetworks, European Polymer Forum 2013, Pisa, IT, 06-16 thru 21</td>
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<td>Light-triggered release from responsive amphiphilic conetworks, Swiss Chemical Society Fall Meeting 2013, Lausanne 09-06</td>
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<td>Wie man sich bettet so liegt man, Luzerner Schlafklinik Zurzach 03-23</td>
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<td>Innovative Accelerating Pavement Testing (APT) linked to structural assessment, SIIV Societa Italiana Infrastruttura Viarie, Padova, IT, 9-12</td>
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<td>Bueno, M./Hugener, M., Partl, M.N.</td>
<td>Development of a New Method to Assess the Low Temperature Properties of Bituminous Binders With the Dynamic Shear Rheometer/1st Int Conference on Rheology and Processing of Construction Materials, IFSTTAR, Paris, FR, 9-2 thru 4</td>
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Sealing Components

Garcia, A./Norambuena-Contreras, J./Partl, M.N.
Distribution of steel fibers during mixing of dense asphalt concrete/5th EATA Conference on Sustainable Asphalt Pavements in the Middle East, American University of Sharjah, Sharja, UAE, 2-05 ◯

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Partl, M.N./Bueno, M./Hugener, M.
Fracture Toughness Testing Aspects for Assessing Low Temperature behavior of Bituminous Binders/RILEM Symposium on Multi-Scale Modelling and Characterization of Infrastructure Materials, KTH, Stockholm, SE, 6-10 thru 12 ◯

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Evaluation of Fracture Tests for Compaction Joints in Asphalt Pavements/Internat. RMPD Seminar, American University of Sharjah, Sharja, UAE, 2-04 ◯

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Forced convective drying and gravity driven drainage of wet porous asphalt imaged with neutron radiography, Materials research Society, Boston, US, 12-03 ◯

Raab, C./Arraigada M./Partl, M.N.
Bond Performance and Crack Develop- ment of Reinforced Asphalt Pavements, Int. Journal of Pavements, Sao Paulo, BR, 12-09 ◯

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Differeing Scanning Calorimetry Applied to Bitumen: Results of the RILEM NBM TG1 Round Robin test/RILEM Symposium on Multi-Scale Modelling and Characterization of Infrastructure Materials, KTH, Stockholm, SE, 6-10 thru 12 ◯

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Flouri, K./Bischoff, R./Meyer, J./Feltin, G.
Wireless monitoring of the dynamic performance of a footbridge. SMAR 2013, ITU, Istanbul, TR, 09-09 thru 11 ●

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Structural Engineering

Franke B./Franke, S./Wildmann, R./
X-Ray technology for the assessment of existing timber structures. 18th Int. Nondestructive Testing and Evaluation of Wood Symposium, Madison, Wisconsin, US, 09-24 thru 27 ◯

Franke, B./Wildmann, R./Müller, A./Tannert, T.
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Hugener, M.
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- **Stiefel, P.** Biofilm detection and removal/Biotechnet Summerschool 2013, Innsbruck, AU, 09-01 thru 05
- **Thöny-Meyer, L.** Playing biomimetic puzzles on photoelectrochemical hematite cells: proteins, pigments & co., Cost Action TD 1102, Antwerpen, NL, 04-09 thru 12
- **Thöny-Meyer, L.** Board SEG Frühjahrstagung, PSI - Villigen 04-19
- **Thöny-Meyer, L.** Enzyme-catalyzed functionalization of surfaces through crosslinking reactions, World Biotechnology Congress 2013, Boston, US, 06-04 thru 07
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- **Hack, E.** Photo mechanics, «Failure and damage in CFRP torsion tubes», Montpellier, FR, 05-26 thru 29
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- **Jacob, P.** Vortrag bei Fa. Philips: «Failure Analysis on Optoelectronic Components», Eindhoven, NL, 06-29
- **Jacob, P.** Universität Stuttgart, «Keramische DIL Gehäuse für Backside-Untersuchungen an Chips», Stuttgart, DE, 10-18
- **Jacob, P.** /Nicoletti, G. ESREF 2013 «Failure causes generating aluminium protrusion/extrusion», Arcachon, FR, 09-30 thru 10-04
- **Scheller Lichtenauer, M. / Schuetz, P / Zolliker, P.** Interaction improves judgements of surface reflectance properties / European Conf. on Visual perception, Bremen, DE, 08-25 thru 29
- **Scholder, O.** Universität Konstanz : Fabrication, simulation and characterisation of optical antennas, Konstanz, DE, 06-20
- **Schütz, Ph.** 1st Int. Conference on Tomography of Materials and Structures (ICTMS), «Reducing environmental scattering in industrial X-ray computer tomography by instrumental redesign», Ghent, BE, 07-01 thru 05
- **Shorubalko, I.** PASI Particle-surface interactions: from surface analysis to materials processing «Aspects of nanostructuring by Helium Focused beam», Luxembourg, LU, 06-03 thru 05
<p>| <strong>Berner, S./Kopf, B./Lischer, S./Ruch, S./Maniura-Weber, K.</strong> | Protein and blood adsorption on titanium and titanium zirconium implants as a model for osseointegration/EAO European Association for Osseintegration, Dublin, IE, 10-17 thru 19 ◆ ◯ |
| <strong>Bürki, T.</strong> | Novel human placenta in vitro models for nanomaterial testing/In vitro Barrier Models, St.Gallen 03-14 ◆ ◯ |
| <strong>Bürki, T./Manser, P./Grafmüller, S./Annaheim, H./Jochum, W./Diener, P.A./Von Mandach, U./Wick, P.</strong> | Ex vivo and in vitro placenta model systems to study nanoparticle interaction with the placenta/41st Conference of the European Teratology Society, Stress, IT, 09-08 thru 11 ◆ ◯ |
| <strong>Hirsch, C.</strong> | A novel comprehensive evaluation platform to assess nanoparticle toxicity in vitro/10th International Particle Toxicology Conference, Düsseldorf, DE, 06-04 thru 09 ◆ |
| <strong>Hirsch, C./Coullerez, G./Diener, L./Wick, P./Krug, H.F./Hofmann, H.</strong> | Correlation between physical-chemical particle properties, dosimetry and in vitro nanotoxicity/CCMX annual meeting, Bern 04-30 ◆ |
| <strong>Hirsch, C./Wick, P./Krug, H.F.</strong> | A novel comprehensive evaluation platform to assess nanoparticle toxicity in vitro/2nd QNano International Conference, Quality in nanosafety assessment – driving best practice and innovation, Prague, CZ, 02-27 thru 01 ◆ |
| <strong>Huber, R./Maniura, K./Spencer, N./</strong> | Morphological Gradients for Protein Adsorption/SAOG 2013 29th Annual Meeting of the Swiss Working Group for Surface and Interface Science, Fribourg 01-25 ◆ |
| <strong>Huber, R./Maniura, K./Spencer, N./</strong> | Using Gradients to Study Influence of Morphology on Protein Adsorption/ICBS 2013 2nd International Conference on Biomaterials Science, Tsukuba, JP, 03-19 thru 22 ◆ |
| <strong>Kaiser, J.-P./Diener, L./Wick, P.</strong> | Are the nanoparticles in the paints the biocides of the 21st century?/10th International Particle Toxicology Conference, Düsseldorf, DE, 06-04 thru 08 ◆ |
| <strong>Kaiser, J.P./Wick, P.</strong> | Effekte von freigesetzten Nanopartikeln auf die Gesundheit. Technologie-Briefing: Nanomaterialien in Fassadenbeschichtungen/Emapa-Akademie, Empa Akademie, Dübendorf 11-14 ◆ |
| <strong>Kopf, B./Maniura, K./Courty, D./Spolenak, R./Torre, F.D./Faoro, F.</strong> | Nanocrystalline Ti-alloys – a potential candidate as dental implant material/CTI Medtech Event 2013, Bern 08-27 ◆ |
| <strong>Lischer, S./Pecnik, C./Muff, D./Ozcan, M./Sailer, I./Berner, S./Appert, C./Maniura, K./Spolenak, R.</strong> | Colored Ceramic Surfaces for Metallic Dental Implants and Prosthetic Appliances/CCMX annual meeting, Bern 04-30 ◆ |
| <strong>Lischer, S./Tober, U./Gruner, Ph./Maniura-Weber, K.</strong> | Choice of cell type and test method defines the results of a cytotoxicity study of HA coatings according to ISO-norm 10993-5/SSB 2013 – 19th Swiss Conference on Biomaterials, Davos 06-25 thru 26 ◆ |</p>
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Wick, P.
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Wick, P.
What are cells telling us about nanomaterial safety?/World Materials Research Institute Forum (WMRIF), Empa Akademie, Dübendorf 05-12 thru 15 ☁ ◯

Wick, P.
Nanomedicine-nanotoxicology the Janus Face of Nanomaterials/9th Materials’ Days Rostock, Rostock, DE, 05-23 thru 24 ☁ ◯

Wick, P.
What are cells telling us about nanomaterial safety?/12th FELASA SECAL Congress, Barcelona, ES, 06-10 thru 13 ☁ ◯

Wick, P.
Nanoparticle transport across the human placenta/Clinical Nanomedicine & Targeted Medicine (CLINAM), Basel, Basel 06-23 thru 26 ☁ ◯

Wick, P.
Knocking at the door of the unborn child: engineered issues in developmental and placental nanotoxicology, and directions for future research/41st Conference of the European Teratology Society, Stresa, IT, 09-08 thru 11 ☁ ◯

Wick, P.
Innobite’s 1st Workshop Biorefinery & Nanocellulose, Empa Akademie, Dübendorf 09-16 ☁ ◯

Wick, P.
Current Challenges Facing Inorganic Nanoparticles in Medicine and Industry, Conference and working session, Bern 09-27 thru 26 ☁ ◯

Yazgan, G./Zuber, S./Popa, A.M.
Nanostructured nanofibers for drug release and tissue engineering/SSB 2013 – 19th Swiss Conference on Biomaterials, Davos 06-25 thru 26 ◆

Zinn, M./Lischer, S./Dilettoso, S./Rupper, P./Maniura, K.
Soft polymeric surface coatings made from olefinic medium-chain-length poly(3-hydroxyalkanoate)/SSB2013 – 19th Swiss Conference on Biomaterials, Davos 06-25 thru 26 ◆ ◯

Brunner, D.
Observing air pollutants and greenhouse gases from space – an overview/Colloquium in Climatology, Climate Impact and Remote Sensing, University of Bern, Bern 12-18 ☁ ◯

Understanding and quantifying CO2 and 4 greenhouse gas fluxes on the regional scale: The project CarboCount /NOAA GMAC Annual Conference 2013, Boulder, Colorado, US, 05-21 thru 23 ◆

Lagrangian transport and inverse emission modeling of non-CO2 greenhouse gases in Europe/Athletic Chemistry Division, National Center for Atmospheric Research (NCAR), Boulder, Colorado, US, 05-19 ☁ ◯

Brunner, D./Knote, S./Giordano L./Hueglin, C.
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Brunner, D./Schmidt, C./Henne, S./Hiller, R.
Inverse methane emission estimation from the scale of Switzerland to the global scale/Oeschger Center, University of Bern, Bern 04-15 ☁ ◯

Brunner, D./Schmidt, C./Henne, S./Hiller, R.
Inverse methane emission estimation from the scale of Switzerland to the globe/Earth and Environmental Sciences Division, Los Alamos National Laboratory, Los Alamos, New Mexico, US, 05-16 ☁ ◯

Emmenegger, L.
Multi-component laser spectroscopy: on the way to the all-in-one laser sensor/Airmontech workshop, Duisburg, DE, 03-4 thru 6 ☁

Emmenegger, L./Tuzson, B./Sturm, P./Mangold, M./Henne, S.
Four years of laser based d18O and d13C-CO2 monitoring in the free troposphere/EGU 2013, Vienna, A, 03-07 thru 12 ☁ ◯

Emmenegger, L./Tuzson, B./Sturm, P./Mangold, M./Henne, S.
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<td>Leuenberger, M./Steinbacher, M./Buchmann, B./van der Laan-Luijks, I./van der Laan, S./Schibig, M./Nyfeler, P.</td>
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<td>Mahieu, E./O'Doherty, S./Reimann, S./Vollmer, M.K. et al.</td>
<td>First retrievals of HCFC-142b from ground-based high-resolution FTIR solar observations: application to high-altitude Jungfraujoch spectra, Vienna, AT, 04-09 thru 12</td>
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<td>Mangold, M./Tuzson, B./Looser, H./Emmenegger, L.</td>
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<td>Schönberger, F./Reimann, S./Brunner, D./Peter, T.</td>
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Real-time measurement of N₂O isotopomers and the ¹⁸O-N₂O isotopologue by laser spectroscopy above intensively managed grassland in Central Switzerland/ Jahrestagung der Arbeitsgemeinschaft Stabile Isotope e.V., 2015, Braunschweig, DE, 09-30 thru 10-02 ◆

Zellweger, C./ Steinbacher, M./ Hermansen, O./ Noone, B./ Buchmann, B.
New approach of performance audits by WCC-Empa using a travelling analyser, GAW 2013 Symposium, Genf 03-18 thru 20 ◆

Zellweger, C./ Steinbacher, M./ Emmenegger, L./ Buchmann, B.
Added value of side-by-side comparisons with a travelling analyser during WCC-Empa audits / 17th WMO/IAEA Meeting on Carbon Dioxide, Other Greenhouse Gases, and Related Measurement Techniques (GGMT-2013), Beijing, CN, 06-10 thru 14 ◆

Zeyer, K./ Vollmer, M.K./ Mohn, J./ Schrade, S./ Emmenegger, L.
Trifluoromethyl sulphur pentfluoride (SF₅CF₃) as a new tracer gas for diffuse emissions / University College Dublin, Dublin, IE, 06-23 thru 06-26 ◆

Abegglen, M./ Sierau, B./ Mensah, A./ Wang, J./ Durdina, L./ Gysel, M./ Lohmann, U.
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Bahk, Y.K./ Wang, J.
Determination of geometrical length of airborne carbon nanotubes by filtration method / European Aerosol Conference, Prag, CZ, 09-01 thru 06 ◆

Brem, B./ Durdina, L./ Wang, J.
Non-Volatile Particulate Matter Mass and Number Emission Indices of Aircraft Gas Turbine Sources / 17th ETH-Conference on Combustion Generated Nanoparticles, Zurich 06-23 thru 26 ◆

Brem, B./ Durdina, L./ Wang, J.
Measurement of Non-Volatile Particulate Matter Mass Emission Indices of Aircraft Gas Turbine Sources / European Aerosol Conference, Prag, CZ, 09-01 thru 06 ◆

Buha, J./ Müller, N./ Nowack, B./ Ulrich, A./ Wang, J.
The nano fraction of fly ashes in Swiss waste incineration plants (WIP) and the respective modelled contributions of engineered nanomaterials (ENM) / European Aerosol Conference, Prag, CZ, 09-01 thru 06 ◆

Cao, L.N.Y./ Wang, J./ Fissan, H./ Eggersdorfer, M.L./ Pui, D.
Novel 3D numerical simulations to calculate the capacitance of nanoparticle aggregates with necking effect and loose agglomerates / Conference of American Association for Aerosol Research, Portland, US, 09-30 thru 10-04 ◆

Chen S.-C./ Wang, J./ Bahk Y.K./ Fissan, H./ Pui, D.
Carbon Nanotube Penetration through Different Respirator Filters and Nuclepore Filters: Models and Experiments / Conference of American Association for Aerosol Research, Portland, US, 09-30 thru 10-04 ◆

Chen, S.-C./ Wang, J./ Fissan, H./ Pui, D.
The Use of Nuclepore Filter for Ambient and Workplace Nanoparticle Exposure Assessment / European Aerosol Conference, Prag, CZ, 09-01 thru 06 ◆

Durdina, L./ Abegglen, M./ Brem, B./ Sierau, B./ Wang, J.
Effective Density Characterization of Soot Particles Emitted from Aircraft Gas Turbine Engine Sources / 17th ETH-Conference on Combustion Generated Nanoparticles, Zurich 06-23 thru 26 ◆

Durdina, L./ Brem, B./ Abegglen, M./ Sierau, B./ Wang, J.
Effective density of particulate matter emitted from aircraft gas turbine engine sources / European Aerosol Conference, Prag, CZ, 09-01 thru 06 ◆

Figi, R.
Methodenentwicklung zur quantitativen Bestimmung von Indium und Neodym in Elektronikschrott, SWICO Schweizerischer Wirtschaftsverband der Informations-, Kommunikations- und Organisationstechnik, Zurich 07-03 ◆

Heeb, N.
Benefits and risks of deNOx- and combined filter-deNOx-technologies/TEVENOX-MEETING, Empa Akademie, Dübendorf 03-21 ◆

Heeb, N.
Secondary Emissions with Biofuels and FBCs. 4. VERT Forum Advanced Diesel Particle Filter-and deNOx-Technologies – Impact of Biofuels, Empa Akademie Dübendorf, Empa Akademie, Dübendorf 03-22 ◆

Heeb, N.
17th ETH Conference on Combustion Generated Nanoparticles, ETH Zürich 06-23 thru 26 ◆

Heeb, N.
PCDD/F formation in catalytic diesel particle filters: New risks with biofuels 17th ETH Conference on Combustion Generated Nanoparticles, Zurich 06-23 thru 26 ◆

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Brem, B./ Durdina, M./ Wang, J.
Non-Volatile Particulate Matter Mass and Number Emission Indices of Aircraft Gas Turbine Sources / 17th ETH-Conference on Combustion Generated Nanoparticles, Zurich 06-23 thru 26 ◆

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Buha, J./ Müller, N./ Nowack, B./ Ulrich, A./ Wang, J.
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Heeb, N.
Benefits and risks of deNOx- and combined filter-deNOx-technologies/TEVENOX-MEETING, Empa Akademie, Dübendorf 03-21 ◆

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4. VERT Forum Advanced Diesel Particle Filter-and deNOx-Technologies – Impact of Biofuels, Empa Akademie Dübendorf, Empa Akademie, Dübendorf 03-22 ◆
Hess, A.
Novel SMPS-ICPMS Coupling Allows Simultaneous Analysis of Size Distribution and Elemental Composition of Airborne Nanoparticles, European Winter Conference on Plasma Spectrochemistry, Krakow, Poland, PL, 02-10 thru 15 ◆

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Pavlova, P.
Ice cores for the reconstruction of historical input and migration behaviour of POPs in Alpine glaciers, International conference on chemistry and the environment (ICCE), Barcelona, ES, 06-22 thru 25 ◆

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Characterization of abraded particles from epoxy/carbon nanotubes composites / Nanotech conference 2013, Washington DC, US, 05-13 thru 16 ◆

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Die Geheimnisse der alten Werkstoffe. Wissenschaftsapéro Blasinstrumente, Empa Akademie, Dübendorf 06-10 ◆

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Les sites du Moyen Âge en lien avec la sidérurgie ancienne dans le Jura : données complémentaires et synthèse, Rencontre de Villersœul, Villersœul, FR, 06-21 thru 22 ◆

Senn, M.
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Old sins throw long shadows: PCBs – 40 years after restrictions in Switzerland – still an environmental problem?, IV Reunion Nacional de Dioxinas Furanos y Compuestos Orgánicos Persistentes Relacionados, Alicante, Spain, Alicante, Spain, ES, 06-26 thru 28 ◆

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From Seveso to Yushchenko – what have we learned about Dioxins?, Labor für Radio- und Umweltchemie der Universität Bern und des Paul Scherrer Instituts, Universität Bern, Bern 11-22 ◆

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Biersbach, A.
The influence of metal atoms on the hydrogen adsorption properties of gra-aphene. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoo, Stoss 01-21 thru 25 ◆

Bonk, A.
Ceria based redox reactions for the production of fuels from CO2 and H2O. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoo, Stoss 01-21 thru 25 ◆

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Development of Doped CeO2 Foams for Thermochemical Solar Fuel Production from H2O and CO2 Verfahrenstechnischer Tag, Bremerhaven, DE, 10-18 ◆

Borgschulte, A.
Synthetischer Treibstoff Synfuel, CO2-arme Treibstoffe der Zukunft, Technology Briefing Empa Akademie, Empa Akademie, Dübendorf 02-14 ◆ ◆
Borgschulte, A.
Wasserstoffspeicherung – war hat das Ei des Kolumbus, H2BZ-Workshop «Wasserstoffspeicherung», TU Darmstadt, DE, 02-19

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Manipulating the reaction path of the CO2 hydrogenation reaction to increase the energy efficiency of solar fuels, Seminar, TU Delft, NL, 10-01

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A ten years’ time travel through the research on hydrogen storage, keynote lecture, Final meeting of the ACTS Sustainable Hydrogen, De Reehorst in Ede, NL, 11-25 thru 27

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What is the Overpotential, UFSP Scientific meeting, Uni ZH, Uni Zürich 07-16

Callini, E.
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TiG3 addition to alanates and borohydrides: catalysis or metathesis? Gordon Conference and Seminar, Il Ciocco, IT, 07-12 thru 19

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Probing the surface of a hydrogen storage material and making it functional, European Technical School on Hydrogen and Fuel Cells 2013, Heraklion, GR, 09-23 thru 27

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Hydrogenation of CO2 by Subsurface Hydrogen. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoos, Stoss, Stoss 01-21 thru 25

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Hosoglu, F.
Production of 1-propanol and 1-butanol from the mixture of MeOH and EtOH by Guerbet reaction in the presence of hydrotalcite. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoos, Stoss 01-21 thru 25

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Hosoglu, F.
Hydrogenation of CO2 Sabanci University, Istanbul, TR, 11-01

Mauron, P.
Reversible hydrogen absorption of metal intercalated fullerenes. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoos, Stoss 01-21 thru 25

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Preceramic polymers filled with highly-aligned platelets. PACRIM 10, San Diego CA, US, 06-02 thru 07

Pohl, M.
Shape selectivity in Ni@zeolites for renewable synthetic fuels. Swiss Nano-convention 2013. Messe Basel, Basel 05-23 thru 24

Pohl, M. / Delmelle, R. / Hosoglu1 F. / Arroyo, Y. / Erni, R. / Borgschulte, A. / Züttel, A.
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Remhof, A.
Controlling the hydrogen release of borohydrides. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoos, Stoss 01-21 thru 25 ✪

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Hydrogen Dynamics in Nano-confined Lithium borohydride. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoos., Stoss 01-21 thru 25 ✪

Remhof, A.
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Thermodynamics of High Pressure Physisorption. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoos, Stoss 01-21 thru 25 ✪

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High Temperature Steam Electrolysis (HTSE): Aging mechanisms and corrosion behaviour of interconnects & coatings. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoos, Stoss 01-21 thru 25 ✪

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Analysis of the corrosion behaviour of steel interconnects and coatings in solid oxide electrolysis cells. 37th Int. Conference on Advanced Ceramics and Composites, Daytona Beach Florida, US, 01-27 thru 02-01 ✪

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Pt coated porous SiC foams for catalytical hydrogen combustion. 37th Int. Conference on Advanced Ceramics and Composites, Daytona Beach Florida, US, 01-27 thru 02-01 ✪

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Hydrogen cycle for a self-sufficient accommodation unit (SELF). Messe OLMA ENERGY 2013, St. Gallen, St. Gallen 05-22 thru 24 ✪

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SELF IGNITING CATALYTIC HYDROGEN BURNER WITH ZERO EMISSION. Messe OLMA ENERGY 2013, St. Gallen, St. Gallen 05-22 thru 24 ✪

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Platelet filler reinforced preceramic polymer ceramics for thermal barrier coatings, 8th International Conference on High Temperature Ceramic Matrix Composites, Xi'an, Shaanxi, CN, 09-22 thru 26 ✪

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Membrane Development for Alkaline Water Electrolysis Verfahrenstechnischer Tag, Bremerhaven, DE, 10-18 ✪

Wu, C.
Research on Hydrogen storage materials and technology in Sichuan University. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoos, Stoss 01-21 thru 25 ✪

Yan, Y.
From YH3 via Y(BH4)3 to Y2(B12H12)3. 7th Int. Symposium Hydrogen & Energy, Seminarhotel Stoos, Stoss, Stoss 01-21 thru 25 ✪

Yan, Y.
Decomposition of Yttrium Borohydride via Formation of Y[B3H8]3 as The Main Intermediate. Gordon Conference and Seminar, Il Ciocco, IT, 07-12 thru 19 ✪
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**Poster**: Bach, Ch.
**Lecture**: Soltic, P.
**invited**: Spiteri, A./Dimopoulos Eggenschwiler, P.
Eilertsen, J./Balog, S.
Small-angle scattering experiments to fine-tune the synthesis of high-efficiency thermoelectric nanocomposites, PSI - Villigen 06-01 thru 04

Eilertsen, J./Saucke, G./Trottmann, M./Pokrant, S./Weidenkaff, A.
Attrition-Enhanced Nanoparticle Synthesis of High-Efficiency Thermoelectrics for Large-Scale Sustainable Energy Conversion, Sorrento, IT, 03-03 thru 08

Phase stability and oxidation studies of (TLzr,Hf)NiSn half Heusler compounds, Symposium C: Advanced thermoelectrics from materials to devices, EMRS spring meeting 2013 Strasbourg, France, Strassburg, FR, 05-27 thru 31


Phase stability and oxidation studies of (TLzr,Hf)NiSn half Heusler compounds, EMPa PhD Students' Symposium, Empa Akademie, Dübendorf 09-16 thru 20

Karvonen, L./Duraki, B./Pokrant, S./Weidenkaff, A.

Karvonen, L./Populoh, S./Yoon, S./Weidenkaff, A.
High-Temperature Thermoelectric Properties of Perovskite-Type Cobalt Oxides, International Workshop on Thermoelectric Research & Thermal Management Technology, Tsukuba, JP, 06-28

Karvonen, L./Populoh, S./Yoon, S./Weidenkaff, A.
High-Temperature (300 K < T < 750 K) Thermo-Electric Properties of SrCoO.5+δ, 0.2< δ < 0.5 Perovskite, International Conference on Thermoelectricity (ICT) 2013, Kobe, JP, 06-30 thru 07-04

Karvonen, L./Duraki, B./Pokrant, S./Weidenkaff, A.

Comparison of ceramic foams and honeycombs as substrates for Pt/Al2O3 diesel oxidation catalysts, Swiss Chemical Society – 2013 Fall Meeting, Lausanne 09-06

Keav, S./Lu, Y./Maegli, A.E./Matam, S.K./Heel, A./Weidenkaff, A./Ferri, D.
Deactivation of a commercial honeycomb noble metal-based CO oxidation catalyst by Cr-containing species, Swiss Chemical Society – 2013 Fall Meeting, Lausanne 09-06

Keav, S./Lu, Y./Matam, S.K./Maegli, A.E./Heel, A./Weidenkaff, A./Ferri, D.
Cr-induced deactivation of a honeycomb noble metal-based CO oxidation catalyst, Poster + Flash presentation, 11th European Congress on Catalysis (EuropaCat XI), Lyon, FR, 09-01 thru 06

Kuc, J./Neumann, M./Armbrüster, M./Ferri, D./Weidenkaff, A./Matam, S.K.
Investigation of LaCoO3 based perovskite type oxides for methanol steam reforming: Effect of B site substitution with Pd and/or Zn, Swiss Chemical Society Fall meeting, EPFL, Lausanne 09-06

Kuc, J./Neumann, M./Armbrüster, M./Weidenkaff, A./Matam, S.K.
Investigation of Pd and Zn substituted LaCoO3 perovskites for steam reforming of methanol, 3rd International symposium of intermetallic compounds in catalysis, Chania, Greece, GR, 06-19 thru 020

Kuc, J./Neumann, M./Armbrüster, M./Yoon, S./Maegli, A./Ferri, D./Weidenkaff, A./Matam, S.K.
Investigation of Pd and Zn substituted LaCoO3 perovskites for steam reforming of methanol, XI EUROPCAT, Lyon, France, FR, 09-01 thru 06

Lu Y./Keav, S./Maegli, A.E./Matam, S.K./Weidenkaff, A./Ferri, D.
Ageing induced three-way catalytic activity improvement of Pd/YFeO3, Swiss Chemical Society – 2013 Fall Meeting, Lausanne 09-06

Lu Y./Keav, S./Matam, S.K./Weidenkaff, A./Ferri, D.
Remarkable three-way catalytic activity improvement of hexagonal Pd/YFeO3 induced by ageing, 11th European Congress on Catalysis (EuropaCat XI), Lyon, FR, 09-01 thru 06

Maegli, A./Pokrant, S./Trottmann, M./Sagarna, L./Weidenkaff, A.
Perovskite-type LaTi2O2N for PEC water splitting, Strasbourg, FR, 05-27 thru 31

Maegli, A./Pokrant, S./Trottmann, M./Weidenkaff, A.
PEC and photocatalytic activity of perovskite-type LaTi2O2N, Karlsruhe, DE, 05-13 thru 16

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### Solid State Chemistry and Catalysis


Bandgap Tuning of SrTi(N,O,F)3 by Anionic-Lattice Variation / European Materials Research Society (EMRS), Strasbourg, FR, 05-27 thru 31 ◆

**Yuri S./Simões, M./Eilertsen, J./Pokrant, S./Weidenkaff, A.**

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### Technology and Society

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