

All presentations will be in the Super C from the RWTH Aachen

Mo

8-20-2018 Seminar Room

	Time	from	To
<b>Conference registration</b>		2:00 PM	6:00 PM
<b>Tutorial "Advanced In-Situ / In-Operando Characterization"</b>		4:00 PM	6:00 PM
Prof. Dr. Joachim Mayer Aachen University and FZJ, (Germany): In- Situ Electron Microscopy	00:30	4:00 PM	4:30 PM
Prof. Dr. Florian Hausen, FZJ (Germany): In Situ Atomic Force Microscopy	00:30	4:30 PM	5:00 PM
Coffee	00:15	5:00 PM	5:15 PM
Prof. Dr. Josef Granwehr, FZJ (Germany): In-Operando Magnetic Resonance Spectroscopy	00:30	5:15 PM	5:45 PM
<b>Icebreaker reception</b>		5:45 PM	8:00 PM

Tue

8-21-2018

Room 1

	Time	from	To
<b>Saal 1</b>	00:30	8:30 AM	9:00 AM
<b>Chair</b>	PT	01:00	9:00 AM 10:00 AM
<b>Prof. Ein-Eli</b>	PT	01:00	10:00 AM 11:00 AM
	00:15	11:00 AM	11:15 AM
<b>Chair</b>	PT	01:00	11:15 AM 12:15 PM
<b>Prof. A. Rüdiger</b>	PT	01:00	12:15 PM 1:15 PM
	01:00	1:15 PM	2:15 PM
<b>Chair</b>	PT	01:00	2:15 PM 3:15 PM
<b>Prof. R.-A. Eichel</b>	V4	00:30	3:15 PM 3:45 PM
	V4	00:30	3:45 PM 4:15 PM
	00:15	4:15 PM	4:30 PM
<b>Chair</b>	V1	00:30	4:30 PM 5:00 PM
<b>Prof. Lu Li</b>	V1	00:30	5:00 PM 5:30 PM
	V1	00:30	5:30 PM 6:00 PM
		7:00 PM	8:00 PM
		8:30 PM	10:00 PM

Wed

8-22-2018

Room 1

	Time	from	To
<b>Saal 1</b>			
<b>Chair</b>	PT	01:00	8:30 AM 9:30 AM
<b>Prof. F. Hausen</b>	PT	01:00	9:30 AM 10:30 AM
	V1	00:30	10:30 AM 11:00 AM
	V1	00:30	11:00 AM 11:30 AM
	00:15	11:30 AM	11:45 AM
<b>Chair</b>	V1	00:30	11:45 AM 12:15 PM
<b>Dr. H. Tempel</b>	V1	00:30	12:15 PM 12:45 PM
	V1	00:30	12:45 PM 1:15 PM
	01:00	1:15 PM	2:15 PM
<b>Chair</b>	VT1	00:30	2:15 PM 2:45 PM
<b>Prof. H. Hoster</b>	VT1	00:30	2:45 PM 3:15 PM
	VT1	00:30	3:15 PM 3:45 PM
	00:15	3:45 PM	4:00 PM
	VT1	00:30	4:00 PM 4:30 PM
	VT1	00:30	4:30 PM 5:00 PM
<b>Chair</b>	V3	00:30	5:00 PM 5:30 PM
<b>Dr. E. Durmus</b>	V3	00:30	5:30 PM 6:00 PM

<b>Poster Session</b>	01:00	6:00 PM	7:00 AM
<b>Conference Banquet and Closing Ceremony with a talk about the history of Aachen</b>		<b>8:00 PM</b>	

**Wed**

**8-22-2018**

**Room 2**

		Time	from	To
<b>Saal2</b>	<b>Material Synthesis</b>			
<b>Chair</b>	V2 Prof. Frank Endres, Clausthal University of Technology (Germany): Template assisted and template free electrosynthesis of semiconductor nanostructures	00:30	8:30 AM	9:00 AM
<b>Dr. A. Merlen</b>	V2 Prof. Wook Jo, School of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST), (Korea): Strategies for developing lead-free piezoelectrics by 2021	00:30	9:00 AM	9:30 AM
	V2 Prof. Yong-beom Lim, Yonsei University (Korea): Biopolymer assemblies with unusual morphologies and functions	00:30	9:30 AM	10:00 AM
	V2 Dr. Frank Tietz, Forschungszentrum Jülich GmbH (Germany): Fast, faster, fastest: Ionic conduction in NaSICON materials	00:30	10:00 AM	10:30 AM
	V2 Prof. Shu Yin, Tohoku University (Japan): Synthesis and Photocatalytic Characterization of (Ta,N) Doped TiO2 with Unique Morphology by WCRSP Process	00:15	10:30 AM	10:45 AM
	coffe break	00:30	10:45 AM	11:15 AM
<b>Chair</b>	V2 Vaibhav Vibhu FZJ, (Germany): Layered Perovskites Ln <sub>2</sub> NiO <sub>4+δ</sub> (Ln = La, Pr, Nd) as suitable oxygen electrodes for Solid Oxide Electrolysis Cells	00:30	11:15 AM	11:45 AM
<b>Dr. F. Tietz</b>	V2 Dr. Jae-Chan Ryu, School of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST) (Korea): Bottom-Up Construction of Core-Shell FeCu-Carbon Nitride Nanotube in Supercritical Fluid as an Oxygen Electrocatalyst	00:30	11:45 AM	12:15 PM
	V2 Prof. Youn-Jea Kim, Sungkyunkwan University (Korea): Effects of ferrofluid viscosity on the characteristics of thermo-magnetic flow field	00:30	12:15 PM	12:45 PM
	V2 Dr. Serguei Savilov, Lomonosov Moscow State University (Russia): Gateway to New Electrolytes Based on High-Voltage Ionic Liquids for Electrochemical Applications	00:30	12:45 PM	1:15 PM
	Lunch	01:00	1:15 PM	2:15 PM
	<b>Material Synthesis</b>			
<b>Chair</b>	VT2 Prof. Ken-ichi Katsumata, Tokyo University of Science (Japan): Preparation of Zirconia Nanosheet Structures by Using Ionic Liquids	00:30	2:15 PM	2:45 PM
<b>Prof. S. Matur</b>	VT2 Prof. Jaeil Kim, University of Dong-A (Korea): Factors affecting on R-phase transformation temperature in Ti-Ni alloys	00:30	2:45 PM	3:15 PM
	VT2 Prof. Joo-Hyung Kim, INHA University (Korea): From Flexible to Strong Materials for Exoskeleton by 3D Printing	00:30	3:15 PM	3:45 PM
	coffe break	00:15	3:45 PM	4:00 PM
	VT2 Prof. Sang Yong Nam, Gyeongsang National University (Korea): Effect of multi layer structure on water permeation performance of polysulfone hollow fiber membrane , New Polybenzimidazole (PBI) composite materials with enhanced interfacial adhesion	00:30	4:00 PM	4:30 PM
	VT2 Prof. Shufeng Song, Chongqing University (China): Preparation, Structure and Properties of Garnet Type Solid Electrolytes	00:30	4:30 PM	5:00 PM
	<b>Modelling</b>			
<b>Chair</b>	V3 Dr. Christoph Scheurer, Technical University of Munich (Germany): Ion dynamics in disordered solid-state battery materials from simulation and spectroscopy	00:30	5:00 PM	5:30 PM
<b>Prof. Endres</b>	V3 Prof. Ai .K. Soh, University of Malaysia, (Malaysia): Modeling of the Giant Electrocaloric Effect of Relaxor Ferroelectric Thinfilms	00:30	5:30 PM	6:00 PM
	<b>Poster Session</b>	01:00	7:00 AM	7:00 AM
	<b>Conference Banquet and Closing Ceremony with a talk about the history of Aachen</b>		<b>8:00 PM</b>	

**Thu**

**8-23-2018**

**Room 1**

		Time	from	To
<b>Saal 1</b>	<b>Photo Electric</b>			
<b>Chair</b>	V4 Prof. Jin-Hyo Boo, Sungkyunkwan University (Korea): VO <sub>2</sub> & Mo-doped VO <sub>2</sub> thin films : Synthesis & characterization for smart window application	00:30	8:30 AM	9:00 AM
<b>Dr. S. Heumann</b>	V4 Prof. Chang-Lyoul Lee, Gwangju Institute of Science and Technology (Korea): Preperation of Multi-Dimensional Perovskites and Study of Thier Opto-Electrical Properties for Light Emitting Diodes Applications	00:30	9:00 AM	9:30 AM
	V4 Prof. Sanjay Mathur, Cologne University (Germany): Materials Development Among Efficiency, Stability and Cost Consideration: Designing Catalysts for Water-Splitting Reactions"	00:30	9:30 AM	10:00 AM
<b>Chair</b>	coffe break	00:15	10:00 AM	10:15 AM
<b>Dr. S. Uhlenbruck</b>	V4 Prof. Tae-hyun Nam, School of Materials Science and Engineering and Research Institute for Green Energy: Convergence Technology (Korea): Superelastic properties of Ti-based scaffolds fabricated by sintering of metal fibers	00:30	10:15 AM	10:45 AM

**LabTour**

<b>Start</b>		12:00 PM
<b>Guided Tour through the Center</b>	00:30	
<b>Ernst Ruska-Centre for Microscopy and Spectroscopy with Electrons (ER-C)</b>	01:00	1:30 PM 2:30 PM
<b>Fundamental Electrochemistry (IEK-9)</b>	01:00	2:30 PM 3:30 PM
<b>Back in Aachen</b>		

**4:30 PM**