

MPS - EPFL - Center Workshop on Bio-inspired Nanosystems for Energy Conversion

	Session: Photovoltaics	Session: Photocatalysis	Session: (Electro)Catalysis	Session: Bioinspired materials	Session: Mixed
Sun, July 10th	Mon, July 11th	Tue, July 12th	Wed, July 13th	Thu, July 14th	Fri, July 15th
	<p>9:00 - 9:10 Welcome: Bettina Lotsch & Aleksandra Radenovic</p> <p>9:10 - 10:00 Anders Hagfeldt (EPFL): The Versatility of Mesoscopic Solar Cells</p> <p>10:00 - 10:50 Hernán Míguez (Institute of Materials Science Sevilla): Optical materials and designs for perovskite optoelectronic devices</p> <p><i>COFFEE</i></p> <p>11:10 - 12:00 Sophia Haussener (EPFL): Holistic design guidelines for solar fuel processing - from macro-scale to nano-scale</p> <p>12:15 - 14:00 <i>LUNCH</i></p> <p>14:00 - 14:50 Hagen Klauk (MPI for Solid State Research): Megahertz Organic Thin-Film Transistors for Flexible Displays</p> <p>14:50 - 15:15 Alessandro Senocrate (MPI for Solid State Research): Unraveling the nature of ionic conductivity in hybrid organic-inorganic halide perovskites</p> <p>15:15 - 15:40 Changbao Zhu (MPI for Solid State Research): Size Effects of LiFePO4 Cathode materials</p> <p><i>COFFEE</i></p> <p>16:10 - 17:00 Poster Introductions: 5min, 2-3 slides</p> <p>17:00 - 19:00 <i>ARRIVAL</i></p> <p>18:00 - 19:30 <i>DINNER</i></p> <p>19:30 - 21:00 POSTER SESSION 1</p>	<p>9:00 - 9:50 Roel van de Krol (Helmholtz-Zentrum Berlin): Materials Challenges in Solar Fuels Research</p> <p>09:50 - 10:40 Stenbjörn Styring (Uppsala Univ.): Fundamental solar fuel research - water oxidation, redox relays and a turned hydrogenase</p> <p><i>COFFEE</i></p> <p>11:10 - 11:35 Daniel Opalka (MPI for Solid State Research): Computation and alignment of ionization energies in aqueous solutions</p> <p>11:35 - 12:00 Linus Stegbauer (MPI for Solid State Research): Covalent Organic Frameworks as Scaffolds for Visible-Light Photocatalytic Hydrogen Generation</p> <p>12:15 - 14:00 <i>LUNCH</i></p> <p>14:00 - 14:50 Geoff Ozin (Univ. Toronto): CO2 Engineering Solutions to Climate Change</p> <p>14:50 - 15:40 Klaus Kern (MPI for Solid State Research): Photon-electron coupling at molecular interfaces</p> <p><i>COFFEE</i></p> <p>16:10 - 17:00 Cécile Hébert (EPFL): "Transmission electron microscopy of materials for energy conversion"</p> <p>18:00 - 19:30 <i>DINNER</i></p> <p>informal discussions and posters continued</p>	<p>9:00 - 9:50 Peter Strasser (TU Berlin): Materials and Electrocatalysis for bioinspired energy storage and conversion</p> <p>09:50 - 10:40 Xile Hu (EPFL): Serendipitous and rational developments of water splitting catalysts</p> <p><i>COFFEE</i></p> <p>11:10 - 12:00 Regina Palkovits (RWTH Aachen): Nanoporous polymers: promising materials for biorefinery applications</p> <p>12:15 - 14:00 <i>LUNCH</i></p> <p>14:00 - 14:50 Karsten Reuter (TU Munich): Mobile and Bound Electrons in Computational Energy Research</p> <p>14:50 - 15:40 Ardemis Boghossian (EPFL): A NanoBioengineering Approach to Developing Living Photovoltaics</p> <p><i>COFFEE</i></p> <p>16:10 - 17:00 Aleksandra Radenovic (EPFL): Nature inspired engineered nanopores for DNA sequencing and ion transport</p> <p>17:00 - 17:45 Poster Introductions: 5min, 2-3 slides</p> <p>18:00 - 19:30 <i>DINNER</i></p> <p>19:30 - 21:00 POSTER SESSION 2</p>	<p>9:00 - 9:50 Magali Lingenfelder (EPFL): Self-assembled Functional Nanostructures in Flatland</p> <p>09:50 - 10:40 Rico Gutzler (MPI for Solid State Research): 2D Metal-Organic Networks as Electrocatalysts for Energy Conversion</p> <p><i>COFFEE</i></p> <p>11:10 - 12:00 Kannan Balasubramanian (MPI for Solid State Research): Nanostructured electronic devices for label-free biosensing</p> <p>12:15 - 14:00 <i>LUNCH</i></p> <p>14:00 - 14:50 Ullrich Steiner (Adolphe Merkle Institute): The role of nano-structures in energy conversion and storage</p> <p>14:50 - 15:40 Joachim Spatz (MPI for Intelligent Systems): Collective Cell Migration Induced by Mechano- and Synthetic-Biology</p> <p><i>COFFEE</i></p> <p>16:10 - 17:00 Sophie Marbach (ENS Paris): Principles of a biomimetic kidney-on-a-chip for advanced nanofiltration</p> <p>18:00 - 19:30 <i>DINNER</i></p> <p>informal discussions and posters continued</p>	<p>09:00 - 09:25 Michael Graf (EPFL): Single-layer MoS2 nanopores as nanopower generators</p> <p>9:25 - 9:50 Bryan Goldsmith (Fritz-Haber-Institute Berlin): Influence of van der Waals interactions and entropy on gold cluster (meta)stability</p> <p>09:50 - 10:40 Esther Alarcon Llado (EPFL/AMOLF): Photonic and surface properties of nanowires for high efficiency single and dual junction solar energy converters</p> <p><i>COFFEE</i></p> <p>11:30 - 12:00 Conference Summary: Bettina Lotsch & Aleksandra Radenovic</p> <p>12:00 - 13:30 <i>LUNCH</i></p> <p>Final discussion and closing remarks</p>