



Wednesday May 29

09:15 – 09:30 Welcome, registration

Introduction and Photo/Electrocatalysis I

- 09:30 – 10:00 **Susumu Kitagawa**
Soft porous crystals – their dynamic structures and functions
- 10:00 – 10:30 **Roland Fischer**
MOF-derived electrocatalysts for the oxygen evolution reaction
- 10:30 – 11:00 **Tom Mallouk**
Managing electrons and protons in electrochemical energy conversion
- 11:00 – 11:30 *Coffee break*
- 11:30 – 12:00 **Peidong Yang**
Nanowire photoelectrochemistry
- 12:00 – 12:30 **Francesca Toma**
Sunlight to sustainability: advancements in solar fuels & functional materials
- 12:30 – 14:00 *Lunch & poster session*

Photo/Electrocatalysis II

- 14:00 – 14:30 **Ferdi Schüth**
Value-generating anode reactions in electrolyzers
- 14:30 – 15:00 **Arne Thomas**
Multicomponent COFs for photocatalysis
- 15:00 – 15:30 **Christian Serre**
Photoactive metal(IV) carboxylate MOFs
- 15:30 – 16:00 *Coffee break*

Energy Materials I

- 16:00 – 16:30 **Mohamed Eddaoudi**
Metal-organic frameworks (MOFs) as prospect adsorbents and membranes for energy-intensive separations and carbon capture
- 16:30 – 17:00 **Tony Cheetham**
Hybrid perovskite formates: from multiferroics to carbon capture
- 17:00 – 19:00 **Poster session**
- 19:00 – 23:00 *Dinner*



Thursday May 30

Photophysics, Methods & Theory I

- 09:00 – 09:30 **Michal Leskes**
From electrochemical interfaces to host guest interactions: new high sensitivity solid state NMR methods for understanding functional materials
- 09:30 – 10:00 **Amanda Morris**
Exploiting rapid exciton migration in metal-organic frameworks for solar energy harvesting
- 10:00 – 10:30 **Sascha Ott**
Unique opportunities presented by redox conductive MOFs
- 10:30 – 11:00 *Coffee break*

Photophysics, Methods & Theory II

- 11:00 – 11:30 **Thomas Heine**
2D materials for energy applications
- 11:30 – 12:00 **Karsten Reuter**
Data-enhanced modeling of energy conversion and storage: ML with synthetic and experimental data
- 12:00 – 12:30 **Martijn Zwijnenburg**
Using theory to understand the photocatalytic activity of (porous) polymers
- 12:30 – 14:00 *Lunch & poster session*

Energy Materials II

- 14:00 – 14:30 **Aurelio Mateo-Alonso**
Steric congestion in covalent organic frameworks
- 14:30 – 15:00 **Long Chen**
2D conjugated organic frameworks: synthesis & functions
- 15:00 – 16:00 *Coffee break*
- 16:30 Transfer
- 17:00 – 23:00 *Aperitif & Dinner at La Villa*
- Omar Yaghi**
Chemistry for solving climate problems, fast!



Friday May 31

Electrochemical Energy Storage I

- 09:00 – 09:30 **Sarah Tolbert**
Fast and reversible – what nanoporous materials can do to improve electrochemical energy storage
- 09:30 – 10:00 **Dongyuan Zhao**
Molecular superassembly for functional mesoporous materials and their future applications
- 10:00 – 10:30 **Raphael Clement**
Designing Co- and Ni-free cathodes for Li- and Na-ion batteries
- 10:30 – 11:00 *Coffee break*

Electrochemical Energy Storage II

- 11:00 – 11:30 **Helge Stein**
Machine learning beyond optimization for characterization, synthesis, and orchestration
- 11:30 – 12:00 **Anna Fischer**
Porous nanospheres for electrocatalysis and energy storage
- 12:00 – 12:30 **Bao-Lian Su**
Pore science and engineering for energy and catalysis
- 12:30 – 13:30 *Lunch*

Perspectives in Porous Materials Discovery

- 13:30 – 14:00 **Kim Jelfs**
Predicting assembly: computational discovery of supramolecular systems
- 14:00 – 14:30 **Natalia Shustova**
Reactivity of transition-metal and actinide-based MOFs
- 14:30 – 15:00 **Xinliang Feng**
Advances in organic 2D crystals – from on-water surface chemistry to functional applications
- 15:00 – 15:30 **Andy Cooper**
Non-metal organic frameworks: apohosts or apophysis?
- 15:30 – 16:00 *Coffee break & departure*