



Wednesday May 29

09:15 – 09:30 Welcome, registration [Bettina Lotsch & Thomas Bein](#)

Introduction & Photo-/Electrocatalysis I [Chair: Thomas Bein](#)

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*

Photo-/Electrocatalysis II [Chair: Jenny Schneider](#)

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 III [Chair: Roland Fischer](#)

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 [Chair: Simon Krause](#)

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 Chair: Natalia Shustova

- 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 **Conference photo** + *Coffee break*

Photophysics, Methods & Theory II Chair: Helge Stein

- 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 Chair: Amanda Morris

- 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* + **Group photo**
- Omar Yaghi** Chair: Thomas Bein
Chemistry for solving climate problems, fast!



Friday May 31

Electrochemical Energy Storage I Chair: Karsten Reuter

- 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 **Raphaele Clement**
Designing Co- and Ni-free cathodes for Li- and Na-ion batteries
- 10:30 – 11:00 *Coffee break*

Electrochemical Energy Storage II Chair: Kim Jelfs

- 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 Chair: Bettina Lotsch

- 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 apophasis?
- 15:30 – 16:00 Closing remarks, *coffee break* & departure Bettina Lotsch & Thomas Bein