

GET It Done - Tentative Program

Wednesday, April 9, 2025

Registration

Foyer

08.00 a.m. **Registration**

Welcome

Lecture Hall

09.30 a.m. **Welcome & SFB Intro**

Session #1

Lecture Hall

Energy Storage & Distribution

09.40 a.m. **Lithium-Ion Battery Production for Europe's Automotive Market: Challenges and Opportunities**
F. Riewald, Kirchentellinsfurt/DE

10.10 a.m. **Hybrid Material Concepts and Benchmarking Solid-State Battery Performance**
N. M. Vargas-Barbosa, Bayreuth/DE

10.30 a.m. **Hybrid batteries – a concept to boost post-lithium ion batteries**
D. Söllinger, Salzburg/AT, S. Pokrant, Salzburg/AT

10.50 a.m. **Modifying ion intercalation reactions by nanoconfinement design of layered electrode materials**
S. Fleischmann, Ulm/DE

11.10 a.m. **Coffee Break**

Foyer

Session #2

Lecture Hall

Sustainable Materials

11.30 a.m. **Regenerative Materials for More Sustainable Energy Converter Technologies**
A. Weidenkaff, Darmstadt/DE, W. Xie, Darmstadt/DE, G. Chen, Darmstadt/DE, M. Widenmeyer, Darmstadt/DE

12.00 p.m. **Iron nitride formation and decomposition during ammonia decomposition over a wustite-based bulk iron catalyst**
M. Muhler, Bochum/DE, M. Purcel, Bochum/DE, S. Lechler, Bochum/DE

12.20 p.m. **Shapeshifting and self-regenerating supported metal catalysts for effective CO₂ conversion**
S. Mascotto, Koblenz/DE, F. Colombo, Hamburg/DE, B. Rudolph, Hamburg/DE, A. Tsiotsias, Kozani/GR, M. Goula, Kozani/GR

12.40 p.m. **Pulsed UV-Laser Surface Modification of High-Entropy Alloy Nanoparticles for Improved Water Splitting and Fuel Cell Applications**
P. Lemm, Essen/DE, J. Söder, Essen/DE, S. Reichenberger, Essen/DE, S. Barcikowski, Essen/DE

01.00 p.m.

Lunch Break

Session #3

Lecture Hall

Hydrogen Technologies

- 02.30 p.m. **Electrifying CO₂ Capture, Concentration, and Valorization**
P. Strasser, Berlin/DE
- 03.00 p.m. **Shining Light on Active Site Transformations for Oxygen Evolution Reaction Catalysts in PEM Water Electrolysis**
I. Spanos, Mülheim an der Ruhr/DE, A. Lim, Mülheim an der Ruhr/DE,
M. Tesch, Mülheim an der Ruhr/DE
- 03.20 p.m. **Impurity Tolerant Catalysts for Efficient Hydrogen Oxidation in Hydrogen Compressors and Fuel Cells**
P. Kumar, Aachen/DE, A. K. Mechler, Aachen/DE
- 03.40 p.m. **Utilizing Catalyst Dispersion Strategies for Roll-to-Roll Fabrication of Catalyst-Coated Membranes in Proton Exchange Membrane Fuel Cells**
F. Özcan, Duisburg/DE, L. Grebener, Duisburg/DE, A. S. Odungat, Duisburg/DE, Y. Zhu, Duisburg/DE, O. Pasdag, Duisburg/DE, I. Radev, Duisburg/DE, E. Nürenberg, Duisburg/DE, A. Kubina, Krefeld/DE, V. Peinecke, Duisburg/DE, S. Kohsakowski, Krefeld/DE, D. Segets, Duisburg/DE

04.00 p.m. **Coffee**

BreakFoyer

Award Ceremony

Lecture Hall

- 04.30 p.m. **Greetings / Laudatio BASF - Nils Bottke**
- 04.40 p.m. **Promotionspreis Chemie & Energie**
- 05.00 p.m. **Laudatio FG Elektrochemie**
- 05.10 p.m. **Förderpreis Elektrochemie**

Members Meeting

Lecture Hall

05.30 p.m. **Members Meeting**

Poster Session & Dinner

06.30 p.m. **Poster Session & Dinner**

09.00 p.m. **End of Day 1**

Thursday, April 10, 2025

Welcome - Intro Plenary

Lecture Hall

- 09.30 a.m. **Welcome - Intro Plenary**
09.40 a.m. **Green Deal: Re-designing a European Project of Common Interest**
R. Schlögl, Bonn/DE

Session #4

Lecture Hall

Chemical Energy Carriers

- 10.20 a.m. **Carbon2Chem®: a missing puzzle to get green energy transformation done**
M. Bosilj, Dortmund/DE
- 10.50 a.m. **Elucidating the Intrinsic CO₂RR performance at MN₄ sites using Morphologically Comparable Co-N-Cs and Ni-N-Cs**
J. L. Low, Berlin/DE, A. Mehmood, Berlin/DE, S. Dietzmann, Berlin/DE, T.-P. Fellingner, Berlin/DE
- 11.10 a.m. **Hydronium ions inhibit CO₂ reduction on coinage metals**
M. Hülsey, Garching/DE, B. Tang, Cambridge/US, Y. Surendranath, Cambridge/US
- 11.30 a.m. **Pulsed CO₂ Electroreduction at Elevated Current Densities**
F. Pradellok, Aachen/DE, A. Mielke, Aachen/DE, M. Wessling, Aachen/DE, R. Keller, Aachen/DE

11.50 a.m. Coffee

BreakFoyer

Session #5

Lecture Hall

Advancing Technologies

- 12.20 p.m. **From high-throughput electrocatalysts discovery to hybrid model electrolyzers**
W. Schuhmann, Bochum/DE
- 12.40 p.m. **Surface Reconstruction Induced by Preconditioning in Different Electrolytes Impacts Electrooxidation of Solketal on Multi-Metal-Based Catalysts**
B. Kumari, Duisburg/DE, J. Zhang, Bochum/DE, T. Quast, Bochum/DE, S. Cychy, Bochum/DE, I. Sanjuán, Duisburg/DE, M. Muhler, Bochum/DE, W. Schuhmann, Bochum/DE, C. Andronescu, Duisburg/DE
- 01.00 p.m. **Options and Challenges of the German Chemical Industry Energy Transformation**
T. Osterland, Augsburg/DE, W. Hübinger, Ludwigshafen/DE, J. von Heimbürg, Riehen/CH, K.-D. Franz, Darmstadt/DE
- 01.20 p.m. **Closing Remarks**

01.30 p.m. Lunch snack

Guided ZBT-Tour

Foyer

- 02.00 p.m. **Pick up for tour**