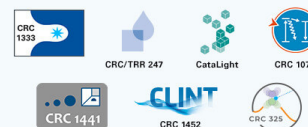


International Catalysis Networking Conference 2024

24-26 September 2024

Venue: CongressCentrum Pforzheim CCP, Bertha-Benz-Platz 1, 75172 Pforzheim



Large hall (Poster Sessions, Breaks, Lunch & Dinner)

Medium hall (Welcome, Intros, Keynote, Sessions A, Farewell)

Small hall (Sessions B)

DAY 1 - 24.09.2024

Time	Session A (medium hall)	Session B (small hall)
13:30 - 13:45	Welcome; <i>Prof. Dr. Jan-Dierk Grunwaldt, CRC 1441</i>	
14:00 - 14:40	Keynote; Homogeneous Carbonylation Catalysis in Ionic Liquids – Supported, or Not Supported, that is the question <i>Prof. Dr. Anders Riisager</i>	
14:50 - 15:15	Metal-Organic Frameworks as Functional Catalyst Platform <i>Dr. Simon Krause, CRC 1333</i>	Engineering Artificial Metalloenzymes for Lanthanide Photocatalysis <i>Prof. Dr. Cathleen Zeymer, CRC 325</i>
15:15 - 15:40	Synthesis and Functionalization of Ordered Mesoporous Silica: Improved Catalyst Carrier Materials through Pore Size Control and Metal Incorporation <i>Dr. Johanna Bruckner, CRC 1333</i>	A Transient Look on Photocatalytic Reactions Involving Preassembly <i>Prof. Dr. Patrick Nuernberger, CRC 325</i>
15:40 - 16:10	Break & Snack (large hall)	
16:10 - 16:35	Forced dynamic reactor operation for enhancing the low-temperature activity of Pd-based methane oxidation catalysts <i>Dr. Patrick Lott, CRC 1441</i>	X-ray Investigations on the Mechanisms of Homo- and Heterogeneous Catalysis <i>Prof. Dr. Simone Techert, CRC 1073</i>
16:35 - 17:00	Role of noble metal-support interaction and in situ/operando spectroscopy in the rational design of active and stable catalysts <i>Daria Gashnikova, CRC 1441</i>	Atomic scale dynamics and electric fields at electrocatalyst water interfaces <i>Dr. Tobias Meyer, CRC 1073</i>
17:00 - 17:25	Embedded cluster calculations on adsorption at oxide surfaces <i>Prof. Dr. Karin Fink, CRC 1441</i>	Exploiting the Disulfide/Dithiol Switch for Artificial Photosynthesis and Photoredox Catalysis <i>Prof. Dr. Franc Meyer, CRC 1073</i>
17:30 - 18:45	Poster Session 1 (large hall)	
19:00 - 21:00	Conference Dinner (large hall)	

DAY 2 - 25.09.2024

Time	Session A (medium hall)	Session B (small hall)
08:50 - 09:00	Intro: Coordinators Catalysis Network	
09:00 - 09:40	Keynote: Molecular catalytic (electro, photo)reduction of CO ₂ : from C1 to C ₂ + products <i>Prof. Dr. Marc Robert</i>	
09:50 - 10:15	Catalytic Functionalization of White Phosphorus <i>Prof. Dr. Robert Wolf, CRC 325</i>	Homogeneous catalysis in thick films of supported ionic liquids <i>Prof. Dr. Marco Haumann, CRC 1452</i>
10:15 - 10:40	Hidden Assemblies Switching Chemoselectivity in Photocatalytic Borylation Reactions of 1,4-Dicyanobenzene <i>Prof. Dr. Julia Rehbein, CRC 325</i>	Surface and Interface Science Studies of Advanced SCILL and SILP systems <i>Dr. Florian Maier, CRC 1452</i>
10:40 - 11:10	Break & Snack (large hall)	
11:10 - 11:50	Keynote: Molecular Water Oxidation Catalysts; Assoc. <i>Prof. Dr. Ming-Tian Zhang</i>	
11:50 - 13:30	Lunch & Photo (large hall)	
13:30 - 14:10	Keynote: Insights into the mechanism of simultaneous N ₂ O and NO abatement over iron-zeolites by modulated excitation spectroscopy <i>Prof. Dr. Oliver Kröcher</i>	
14:20 - 14:45	Ligand-field/redox potential correlation in Co-Fe oxides investigated by 2p3d resonant inelastic X-ray emission spectroscopy <i>Dr. Olaf Rüdiger, CRC 247</i>	Can Polymers do Magic? – The Role(s) of Soft Matter Matrices in Light-Driven Catalysis <i>Prof. Felix Schacher, TRR 234</i>
14:45 - 15:10	Neural Network Potentials for Catalysis <i>Prof. Dr. Jörg Behler, CRC 247</i>	Enhanced H ₂ O ₂ Production via Photocatalytic O ₂ Reduction over Tailored Poly(heptazine imides) Spheres <i>Dr. Lingli Ni, TRR 234</i>
15:10 - 15:40	Break & Snack (large hall)	
15:40 - 16:05	Design of hierarchical SCALMS systems via spray-drying <i>Dr. Susanne Wintzheimer, CRC 1452</i>	Chemical and functional DIVERSITY: noble metal-free photosensitizers for light driven hydrogen production <i>Prof. Dr. Kalina Peneva, TRR 234</i>
16:05 - 16:30	Predicting catalytic activity and phase transitions in liquid metal alloys by molecular dynamics with machine-learned force fields <i>Prof. Dr. Andreas Görling, CRC 1452</i>	Raman spectroscopy's role in understanding photocatalytic systems <i>apl. Prof. Dr. Michael Schmitt, TRR 234</i>
16:30 - 16:55	Heterogenized catalysts – at the interface of molecular and solid-state chemistry <i>TT.-Prof. Dr. Schirin Hanf, CRC1441</i>	Mimicking Copper Active Sites with Cage Ligands <i>Dr. Matthias Otte, CRC 1633</i>
17:00 - 17:30	CRC 1633: Pushing Electrons with Protons <i>Prof. Dr. Sven Schneider, CRC 1633</i>	
17:30 - 18:45	Poster Session 2 (large hall)	
19:00 - 21:00	Conference Dinner (large hall)	



DAY 3 - 26.09.2024

Time	Session A (medium hall)	Session B (small hall)
08:50 - 09:00	Intro; Coordinators CataLysis Network	
09:00 - 09:40	Keynote: Choose Your Own Adventure in Metal-Hydride Catalysis <i>Prof. Dr. Vy M. Dong</i>	
09:50 - 10:15	Tailoring Selectivity With Confinement-Governed Transition States <i>Prof. Dr. Michael R. Buchmeiser, CRC 1333</i>	Evaluation of electrocatalytic activity of OER electrocatalysts using scanning electrochemical cell microscopy (SECCM) <i>Prof. Dr. Corina Andronesco, CRC 247</i>
10:15 - 10:40	Computational Modeling of Catalytic Reactions <i>Prof. Dr. Johannes Kästner, CRC 1333</i>	Synthesis of Mixed Metal Oxides with Tailored Composition, Size, and Morphology and their Activity in OER and Thermal Oxidation Catalysis <i>Prof. Dr. Stephan Schulz, CRC 247</i>
10:40 - 11:10	Break & Snack (large hall)	
11:10 - 11:50	Keynote: Understanding Structure to Property Relations for IrOx Amorphous and Crystalline Catalysts for PEM Water Electrolyzers <i>Prof. Dr. Iryna Zenyuk</i>	
11:50 - 13:30	Lunch & Photo (large hall)	
13:30 - 14:10	Keynote: Hybrid Molecular Materials for Energy Applications <i>Prof. Dr. Antoni Llobet</i>	
14:10 - 14:30	Farewell; <i>Prof. Dr. Kristina Tschulik, CRC 247</i>	