

SCS Fall Meeting 2022

September 8, 2022 – 08.30-18.30h
Irchel Campus, University of Zurich

Catalysis Sciences and Engineering – G19



Morning Session, Chair: Prof. Jeroen van Bokhoven

- 10:45 Catalytic Methods for the Construction of Halogen-Functionalized Organic Compounds with Application to Late-Stage Functionalizations [CE-011]
Belén Martín-Matute, Stockholm University
- 11:15 Catalytic Carbochlorocarbonylation of Unsaturated Hydrocarbons via C–COCl Bond Cleavage [CE-013]
Elliott H Denton, ETH Zurich
- 11:30 Oxygen Atom Transfers Catalyzed by Cobalt Sulfide [CE-014]
Vanessa Wyss, Universität Basel
- 11:45 Iridium Complexes bearing O-Functionalized PYE Ligands for Efficient Formic Acid Dehydrogenation [CE-015]
Nicolas Lentz, University of Bern
- 12:00 Tools for Predicting the Activity of Immobilized Frustrated Lewis Pair Catalysis [CE-016]
Shubjait Das, EPFL Lausanne
- 12:15 Non-oxidative Coupling of Methane with Transition-Metal Carbides: Mechanistic Revelation of the Role of Carbidic Carbon [CE-017]
Seraphine Beartice Xiao Ying Zhang, ETH Zurich

Afternoon Session, Chair: Prof. Martin Albrecht

- 14:30 What is more Important to Enable Efficient Cyberphysical Systems – Digital Twins or the Degree of Automation in R&D Labs? [CE-021]
Rolf Gueller, Chemspeed Technologies AG
- 15:00 Operando X-ray Spectroscopy revealed the Key Role of the Pt-FeO_x Catalytic Interface in Preferential CO Oxidation [CE-023]
Ilia I. Sadykov, Paul Scherrer Institute
- 15:15 OER Catalyst's Transport Layer Matters: Stability Comparison Between C-Based GDL and Ti-Based PTL [CE-024]
Aline Borner, University of Bern
- 15:30 Bimetallic CoPt Nanoparticles for the Dry Reforming of Methane: Understanding Structure-Performance Relationships [CE-025]
David Niedbalka, ETH Zurich
- 15:45 Atomically precise design of bimetallic Au-Ru and Ru-Pt low-nuclearity catalysts via carbon host functionalization [CE-026]
Vera Giulimondi, ETH Zurich
- 16:00 Dynamics of Nanoparticle Motion and Metal-Oxide Support in Redox-Reactive Gases [CE-027]
Hannes Frey, ETH Zurich



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