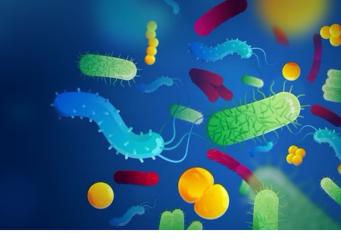
SCS Fall Meeting 2022

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

- Catalytic Carbochlorocarbonylation of Unsaturated Hydrocarbons via C–COCI Bond Cleavage [CE-013] 11:15 Elliott H Denton, ETH Zurich
- Oxygen Atom Transfers Catalyzed by Coblt Sulfide [CE-014] 11:30 Vanessa Wyss, Universität Basel
- Iridium Complexes bearing O-Functionalized PYE Ligands for Efficient Formic Acid 11:45 Dehydrogenation [CE-015]
 - Nicolas Lentz, University of Bern
- Tools for Predicting the Activity of Immobilized Frustrated Lewis Pair Catalysis [CE-016] 12:00 Shubjajit Das, EPFL Lausanne
- Non-oxidative Coupling of Methane with Transition-Metal Carbides: Mechanistic Revelation 12:15 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
- Operando X-ray Spectroscopy revealed the Key Role of the Pt-FeO_x Catalytic Interface in 15:00 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 Bornet, University of Bern

Bimetallic CoPt Nanoparticles for the Dry Reforming of Methane: Understanding 15:30 Structure-Performance Relationships [CE-025] David Niedbalka, ETH Zurich

- Atomically precise design of bimetallic Au-Ru and Ru-Pt low-nuclearity catalysts 15:45 via carbon host functionalization [CE-026] Vera Giulimondi, ETH Zurich
- 16:00 Dynamics of Nanoparticle Motion and Metal-Oxide Support in Redox-Reacive Gases [CE-027] Hannes Frey, ETH Zurich







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