Poster Session 1 – Monday, 10 January 2022

1	Timo Engl *	Model Reactor for Investigations on CO2 Methanation under Dynamic Reaction Conditions
2	Sebastian Weber *	X-ray Ptychography as a Tool to Understand Catalyst Synthesis and Deactivation in 3D
3	David Kellermann	Integrated Modelling of Dynamic Surface Changes and Kinetics of a Novel Nickel- Based Catalyst for CO2 Methanation
4	Moritz Langer	Holistic Kinetic Modeling of the CO2 Methanation Reaction
5	Nils Prinz	The Pair Distribution Function (PDF) – a Powerful Method to Study Energy Materials
6	Leif Schwensow	Stabilized MOF-Derived Ni/C Catalysts for the Methanation of CO2 under Dynamic Operating Conditions
7	Sven Wendholt	Ni-Based Catalysts for CO2 Methanation Probed by X-ray Spectroscopy under In-Situ Conditions
8	Alexander Hopf *	Hollow carbon spheres as model catalyst supports for polymer exchange membrane fuel cells
9	Tao Jiang *	Diatomic Fe-Co Sites for Efficient OER
10	Daniel Escalera López *	Strategies to uncover activity-stability relationships in Ir-based catalysts for water splitting
11	Karin Kleiner *	Charge Transfer Multiplet Calculations - Solving the Electronic Structure (the d-Band) of Perowskite for the OER in Alkaline Media

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12	Katrine Svane *	High Entropy Oxides for the Oxygen Evolution Reaction
13	Yuechao Yao *	Metal-Organic Frameworks Derived High Entropy Sulfides Encapsulated by Porous Carbon for the Oxygen Reduction Reaction and Oxygen Evolution Reaction
14	Francesco Mattarozzi *	Ligand-Free Silver Nanoparticles for CO2 Electrocatalytic Reduction to CO
15	Julian Borowec *	Structure-Activity Correlations in Electrocatalysis Investigated by Means of Combined Atomic Force and Scanning Electrochemical Microscopy
16	Joel Britschgi *	Novel Electrochemical Method to Functionalize Methane on a BDD-anode
17	Inga Dorner *	Differences between Dynamic and Stationary Analysis of the Electrochemical CO2 Reduction
18	Antonia Herzog *	Operando Insights into Bimetallic Cu-Ag Nanocubes during CO2 Electroreduction toward Liquid Products
19	Hendrik Heenen *	Mechanism for Acetate Formation in CO(2) Reduction on Cu: Selectivity Trends with pH and Nanostructuring Derive from Mass Transport
20	Fabio Dionigi	Operando X-Ray Scattering to Track Atomic Level Structural Transformation in NiFe LDH
21	Juliane Titus	Control of Textural Properties and Ni Species of Ni-Catalysts Supported on Si- Stabilized ZrO2

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22	Mariam Schulte	Spatially-Resolved Insights into Local Activity and Structure of Ni Based CO2 Methanation Catalysts in Fixed-Bed Reactors
23	Amanda Petersen	pH and Anion Effects on Cu-Phosphate Interfaces for CO Electroreduction
24	Steffen Czioska	Mechanistic and Structural Investigation of OER Catalysts by Oxygen Evolution Reaction at High Potentials Probed by Operando Spectroscopy
25	Javier Villalobos	Requirements for the Activation of Co-Based Catalysts during Electrochemical Restructure for Oxygen Evolution

* incl. Flash Talk