Poster Session II – Tuesday, 11 January 2022

1	Gereon Behrendt *	Malachite- and Mcguinnessite-Based Catalyst Precursors for Methanol Synthesis from CO ₂ -Rich Synthesis Gas
2	Alexey Boubnov *	X-Ray Spectroscopy on Zinc in Methanol Catalysts: Using Theory to Understand Experimental Data
3	Arik Beck *	Following the structure of copper-zinc- alumina across the pressure gap in carbon dioxide hydrogenation
4	Laura Barberis *	Particle size effects for copper-catalyzed CO2 hydrogenation to methanol
5	Jakub Pazdera	Impact of the Local Environment of Amines on the Activity for CO2 Hydrogenation over Bifunctional Basic – Metallic Catalysts
6	Nienke Visser *	Particle Size Effects of Ni/C Catalysts for High Pressure CO2 Hydrogenation
7	Tugce Beyazay *	Hydrothermal CO2 Fixation with Metal Nanoparticles
8	Arne Nisters *	Immobilisation of Molecular Catalysts on Phosphine-Based Hyper-Crosslinked Polymers for the Activation of CO2
9	Jonas Wentrup	Dynamic Operation of Fischer-Tropsch Synthesis for Power-to-Liquid Concepts
10	Özgül Agbaba *	Oligomerization of Acetylene to 1,3- Butadiene
11	Lorena Baumgarten *	5-(hydroxymethyl) furfural (HMF) as platform molecule from bio-based feedstocks for noble metal based selective oxidations

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12	Alexander Bodach *	Hydrogen Activation by AI-N Lewis Pairs and Mechanochemical Syntheses of Organometallic Compounds
13	Charlotte Fritsch *	Development of a Ceramic Membrane Reactor for Coupled Propane Dehydration and Hydrogen Production
14	Florian Hausen *	Revealing Surface Transformations by operando Friction Force Microscopy
15	Klara Sophia Kley *	Selective Hydrogenation of High Concentrated Acetylene with Mechanochemical Prepared Pd-Ag/α-Al2O3 as a Catalyst
16	Kevin Kuhlmann *	Reactive CFD and NMR: Bringing Research Areas Together for Detailed, Full-Field Validation
17	Xiaoran Liu *	AI-N Compounds for Hydrogen Activation and as Energetic Materials
18	Fei Wang *	24/7 Dispatchable Solar Power System Powered by High Temperature Hydrogen Storage Materials
19	Yonghyuk Lee	Data-Efficient Iterative Training of Machine- Learning Gaussian Approximation Potentials for Surface Structure Determination of Living Heterogeneous Catalysts
20	Felix Studt	Theoretical Studies on the Conversion of Methanol to Olefins Using Acidic Zeolites
21	Daliborka Nikolić	Analysis of Possible Improvement of Forced Periodically Operated Chemical Reactor with Methanol Synthesis Based on Nonlinear Frequency Response Method

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22	Andrej Uhrich	Structure-Activity Correlations of CeO2- Promoted Cu-Co-Based Catalysts Applied in the CO Hydrogenation to Higher Alcohols
23	Qingxin Yang	In situ reaction-induced and externally forced dynamics of Fe-based catalysts in CO2 hydrogenation
24	Shilong Chen	Synergistic Effect of Co and Fe Catalysts for Ammonia Decomposition
25	Marina Armengol Profitós	Effect of Ruthenium Addition to CeO2- Supported Cobalt Catalyst for Dry Reforming of Methane
26	Andrea Braga	Bimetallic NiFe/CeO2 Catalysts for Methane Steam Reforming: In-Situ XPS and XRD Characterisation
27	Henrik Kristoffersen	Local Order in AgAuCuPdPt High Entropy Alloy Surfaces
* incl	Elach Talk	

* incl. Flash Talk