

Programme HITEC Day

Title: Electrocatalysis: from basic concepts to better materials and devices

Date: 2 February 2021

Location: <https://fz-live.de/electrocatalysis>

09.00 – 09.15	Welcome and Introduction Prof. Dr. Michael Eikerling (IEK-13), Prof. Dr. Uwe Rau (IEK-5)
09.15 – 10.00	Modelling the Electric Double Layer and Multistep Reactions in Electrocatalysis Dr. Jun Huang (IEK-13 & Ulm University)
10.00 – 10.45	Characterising catalysts using aberration corrected TEM Dr. Katherine MacArthur (ER-C-1)
10.45 – 11.00	Break
11.00 – 11.45	Advanced in-situ Characterization for Energy Conversion Electrocatalysts Dr. Meital Shviro (IEK-14)
11.45 – 12.30	Catalysts for the electrochemical CO ₂ Reduction Dr. Burkhard Hecker (IEK-9)
12.30 – 13.15	Lunch Break
13.15 – 14.00	Nanostructured transition metal oxides for oxygen evolution reaction catalysis Daniel Böhm (IEK-1)
14.00 – 14.45	Silicon based solar cells for solar fuel devices Dr. Vladimir Smirnov (IEK-5)
14.45 – 15.00	Break
15.00 – 15.45	Poly(2,3,5,6-tetrafluoro-4-phosphonic acid) as electrode ionomer for high-temperature fuel cells substantially outperforming PBI and metal phosphate-based fuel cells Dr. Jochen Kerres (IEK-11)
15.45 – 16.00	Closing remarks, Feedback