

ICAT-FHI Symposium: Approaching to the Catalysis Reality

September 11, 2023

Seminar room B&C, 4th floor, CRIS building(創成科学研究棟), Hokkaido University
Hybrid meeting (MTG link will be provided after registration)

Registration site: <https://forms.gle/vjdx43F7QaaGZw6j7>



Prof. Karsten REUTER



Prof. Satoru TAKAKUSAGI



Associate Prof. Kenji IIDA



Assistant Prof. Takashi TOYAO

Chair: Prof. Jun-ya HASEGAWA, Institute for Catalysis (ICAT)

11:00 Greeting, Prof. Ken-ichi SHIMIZU, Director, ICAT

11:05-12:05 "Out of the Crystalline Comfort Zone: ML-Empowered Modelling of Operando Energy Conversion Systems"
Prof. Karsten REUTER, Director, Theory Department, Fritz-Haber-Institute(FHI) of Max-Planck-Society(MPS)

12:05 Lunch

13:00-13:40 "Atomic-level visualization of surface catalytic reactions by *in situ/operando* surface science techniques"
Prof. Satoru TAKAKUSAGI (ICAT)

13:40-14:20 "The Effect of Bias Voltage on the Interface between an Electrode Catalyst and an Electrolyte Solution Revealed by Theoretical and Computational Approach"
Associate Prof. Kenji IIDA (ICAT)

14:20-15:00 "Data-driven catalyst design for CO₂ hydrogenation reactions"
Assistant Prof. Takashi TOYAO (ICAT)

15:00 Closing remark, Prof. Kiyotaka ASAKURA (ICAT)

Contact: Jun-ya HASEGAWA (hasegawa@cat.hokudai.ac.jp, 011-706-9145)