

# 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)

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|-------------|--|
| 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"<br><b>Prof. Karsten REUTER, Director, Theory Department, Fritz-Haber-Institute(FHI) of Max-Planck-Society(MPS)</b> |
| 12:05       | Lunch  |
| 13:00-13:40 | "Atomic-level visualization of surface catalytic reactions by <i>in situ/operando</i> surface science techniques"<br><b>Prof. Satoru TAKAKUSAGI (ICAT)</b>   |
| 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"<br><b>Associate Prof. Kenji IIDA (ICAT)</b>                 |
| 14:20-15:00 | "Data-driven catalyst design for CO <sub>2</sub> hydrogenation reactions"<br><b>Assistant Prof. Takashi TOYAO (ICAT)</b>   |
| 15:00       | Closing remark, Prof. Kiyotaka ASAKURA (ICAT)  |

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