

Symposium on

DATA SCIENCE POWERED HIGH-THROUGHPUT EXPERIMENTATION: TOWARDS AUTONOMOUS DISCOVERY OF NEW MATERIALS FOR CATALYSIS AND ENERGY.

hosted by

TUM Catalysis Research Centre (CRC), *e-conversion* (Cluster of Excellence, EXC 2089), TUM.Solar

ZOOM

<https://tum-conf.zoom.us/j/61801957617>

Code: 115817

Monday, May 23rd, 9-17.

PROGRAM*

- 09:00 – 09:10 **Fischer**, R. A.; TUM Catalysis Research Centre.
Welcome
- 09:10 – 09:50 **Kraft**, M.; Cambridge, CARES Singapore.
title to be announced
- 09:50 – 10:30 **Stein**, H. S.; Helmholtz Center Ulm, Karlsruhe Institute of Technology.
Integrating combinatorial electrochemistry and data science towards materials acceleration platforms
- 10:40 – 11:20 **Joshi**, H.; Evonik.
Machine Learning - A Promising Tool for the Development of Industrial Process Catalysts
- 11:20 – 12:00 **Gensch**, T.; TU Berlin UniSysCat.
Data-driven workflows to guide experiments and understand ligand effects in catalysis
- 14:00 – 14:40 **De**, S.; BASF.
Data-driven Catalysis Research: Promises & Challenges
- 14:40 – 15:20 **Barad**, H-N; MPI for Intelligent Systems, Stuttgart.
Composition and nanostructure parameter spaces in high-throughput catalyst design
- 15:30 – 16:10 **Gregoire**, J.; Caltech, High Throughput Experimentation Group.
On the interplay of high throughput experiments and data science for accelerated materials discovery
- 16:10 – 16:50 **Abate**, A.; Helmholtz Centre Berlin for Materials and Energy.
Perovskite Solar Cells
- 16:50 – 17:00 **Sharp**, I.; TUM Walter Schottky Institute.
Closing

[*] 30 min talk + 10 min discussion.