

Session Program

17-19 Sept 2018



German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities

Micro symposium 1

Fakultät für Maschinenwesen der Technischen Universität München
Boltzmannstraße 15 85748 Garching b. München

Monday 17 September

11:00

Micro symposium 1: In-situ and in-operando studies with special focus on energy materials and catalysis

Session | Location: Fakultät für Maschinenwesen, MW 1801

11:00-11:30

Electrochemical energy storage beyond lithium: mechanisms revealed by in operando synchrotron studies

Speaker

Helmut Ehrenberg

11:30-11:45

Li-ion localisation and mobility in selected solid-state electrolytes probed by neutron diffraction

Speakers

Günther Redhammer, Dr Daniel Rettenwander

11:45-12:00

Characterisation of hydrogen storage materials with photons and neutrons

Speaker

Dr P. Klaus Pranzas

12:00-12:15

Phase diagram and redox behavior of (Nd/Pr)₂NiO_{4+δ} electrodes explored by in situ neutron powder and synchrotron single crystal diffraction during electrochemical oxygen intercalation

Speaker

Prof. Werner Paulus

12:15-12:30

Understanding morphological degradation in organic photovoltaics with advanced scattering techniques

Speaker

Franziska Löhner

12:30

14:30

Micro symposium 1: In-situ and in-operando studies with special focus on energy materials and catalysis

Session | Location: Fakultät für Maschinenwesen, MW 1801

14:30-15:00

Operando Insight into Electrocatalytic and Thermal Conversion of CO₂ to valuable Chemicals and Fuels

Speaker

Prof. Beatriz Roldan Cuenya

15:00-15:15

Development of photon-in/photon-out spectroscopy at PETRA III and applications to studies in catalysis

Speaker
Matthias Bauer

15:15–15:30

In-situ PDF to reveal molecular complexes and track particle formation

Speaker
Mirijam Zobel

15:30–15:45

Instrumentation for time resolved X-ray absorption spectroscopy at PETRA III

Speaker
Dirk Lützenkirchen-Hecht

15:45–16:00

Atmospheric Pressure X-ray Photoelectron Spectroscopy for catalysis and electrocatalysis

Speaker
Dr Juan J. Velasco-Vélez

16:00