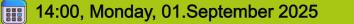
31 August-4 September 2025 31 August-4 September 2025



## **Poster Sessions**





- Poster session 1: MS1: Energy-related materials and catalysts
- MS1.P13: Characterization of porous iron structures in the iron-steam process for indirect hydrogen storage - Jonas Kaltenbach
- Poster session 1: MS1: Energy-related materials and catalysts
  - MS1.P24: In situ ESEM study of catalyst support dynamics under reaction conditions - Birger Holtermann
- Poster session 1: MS1: Energy-related materials and catalysts
  - MS1.P28: Structural and chemical evolution of LSCF/GDC air electrodes in solid oxide cells with metallic interconnectors - A (S)TEM analysis - Ardavan Makvandi
- Poster session 4: MS2: Metals and alloys
- MS2.P32: Creep-induced microstructural evolution of a eutectic Mo-Si-Ti alloy by correlative electron microscopy - Hemanth Thota
- Poster session 4: MS2: Metals and alloys
- MS2.P34: Segregation to creep-induced stacking faults in Ni-base single crystal superalloys - Zhongmin Long
- Poster session 7: MSLB: Material Science Late Breaking Posters
- Poster session 7: MSLB: Material Science Late Breaking 1 305...
  MSLB.P05: Electron microscopy analysis of organic thin-film transistors on the device level - Simon Hettler
- 14:00, Tuesday, 02.September 2025
- Poster session 8: MS3: Disordered materials
- MS3.P03: Studying dark-field speckle contrast of amorphous matter as a function of time - Martin Peterlechner
- Poster session 9: IM 3: SEM and FIB developments
  - IM3.P09: Probing the work function of catalytic platinum by energy band-pass filtered secondary electrons - Erich Müller
- Poster session 9: IM 3: SEM and FIB developments
  - IM3.P16: Transfer and electrical contacting of nanomaterials for in situ TEM using FIB - Simon Hettler
- Poster session 14: MS 5: Functional organics, carbon-based and hybrid materials Topics
  - MS5.P08: Determining the distribution of the different carbon based nano phases in the photoactive layer of semitransparent organic solar cells - Kerstin Märkle
- 14:00, Wednesday, 03.September 2025
- Poster session 18: MS 6: Ceramics, composites and geoscience
  - MS6.P09: Electron probe microanalysis of porous 3D nano-printed semiconducting **ZnO nanoarchitectures** - Kistian Kraft
- Poster session 21: MS 7: Multi-scale and correlative in-situ/operando electron microscopy MS7.P01: In situ ESEM analysis of platinum dewetting behaviour on different oxide supports under reactive atmospheres - Mareike Dortmund
- Poster session 21: MS 7: Multi-scale and correlative in-situ/operando electron microscopy MS7.P07: Tracking (thermo-)electric properties during crystallization of an aGe thin film by in situ TEM- Simon Hettler







- Sunday, 31.August 2025
- 13:15 14:30, WS2.04 Part 3 Materials meets life science microscopy From critical preparation to advanced microscopy of sensitive/reactive specimens conference room 2
- Beam induced damage (Cryo-FIB/TEM, Carbon contamination) Erich Müller
- Sunday, 31.August 2025
- 13:30 15:10, WS5.03 Part 2.2 In-situ/operando TEM and SEM
- conference room 4
- Gas-phase SEM and TEM Yolita M. Eggeler

## **Oral Talks**

- Wednesday, 03.September 2025
- 17:45, MS5.06 Functional organics, carbon-based and hybrid materials
- dm-arena, plenary hall
- In situ Pyrolysis of 3D printed building blocks for functional nanoscale metamaterials - Qing Sun
- Thursday, 04.September 2025
- 14:45, MS7.03 Multi-scale and correlative in-situ/operando electron microscopy
- dm-arena, plenary hall
- Correlative in situ electrochemical TEM and electrochemistry coupled in situ Raman spectroscopy elucidation of mechanism of electropolymerization of **1,8-dihydroxynaphthalene derived allomelanin thin films** - Nivedita Sudheer
- Thursday, 04.September 2025
- 15:45, MS8.07 Beyond ideal 2D and van der Waals materials: Disorder, defects, adatoms and contamination
- conference hall
- Etching and carbon contamination dynamics on thin carbon films - Arne Johan Schwartz