

**Science Day**  
**22 January 2025, LCP HS 0´06**

16.00 Welcome

16.05 **Prof. Dr. Oliver Seitz**

Peptide bonds against all odds

16.45 **Prof. Dr. Emil List-Kratochvil**

Advanced materials for neuromorphic device concepts

17.30 Poster Session

Group	Poster Presenter(s)	Title
Braun	Amin Abdolrahimi Jesvita Cardozo Navia Sood	<i>tba</i>
Limberg	Jannis Barrera	<i>Dioxygen activation mediated by bioinspired copper(I) complexes and their applications in oxidation catalysis</i>
Arenz	<i>tba</i>	<i>tba</i>
Hecht	Jessica Schaaf, Henri Tertilt, Jordan Thelemann	<i>Controlling and localizing (photo) reactivity with photoswitches</i>
Adelhelm	Yuliia Kravets	<i>Solvent co-intercalation as a strategy for the exploration of novel electrode reactions for rechargeable metal-ion batteries</i>
Kneipp	Lars Dannenberg Dr. Cecilia Spedalieri	<i>Optical nanospectroscopy to characterize molecules at surfaces</i>
Römelt	Leon Gerndt	<i>Applied quantum chemistry - an in depth investigation of CO<sub>2</sub>RR catalysis</i>
Balasubramanian	Isabell Wachta Angie Tutlewski	<i>Fast pH sensing at interfaces using ultramicroelectrodes</i>
Emmerling	Nikita Gugin	<i>Advancing Industrial Mechanochemistry: Real-Time Insights for Sustainable, Solvent-Free Manufacturing</i>
Unger	<i>tba</i>	<i>tba</i>
Graeber	Johannes Baller	<i>Wetting interactions between porous carbon hosts and liquid alkali metals: Investigating forced wetting vs. spontaneous wetting with X-ray CT</i>
Kathan	Robert Kluifhooft	<i>Machine-directed Synthesis of a Rotaxane</i>
Usvyat	Denis Usvyat	<i>Aperiodic defects in periodic solids" "Aperiodic defects in periodic solids</i>
Sauer	Valeri Karpov	<i>DFT Analysis of Water Diffusion in MOF-303</i>
Lohmiller	Dr. Thomas Lohmiller	<i>Direct determination of spin-spin interactions in transition metal compounds relevant in catalysis and molecular magnetism by frequency-domain electron-paramagnetic resonance</i>