

10th HIU-Biennial Meeting 15th – 16th September 2021
Poster contributions – HIU building 1st & 2nd floor, 15th Sep.

Number	Title	First Author
P01	Vanadium Oxide-based Nanostructures as Electrode Materials for (Post-) Li-ion Batteries	Jan Hettig
P02	Elucidating the role of microstructure in thiophosphate electrolytes – A combined experimental and theoretical study of β -Li ₃ PS ₄	Tugce Ates
P03	Tuning particle morphology towards high-performance GeO ₂ anodes in lithium-ion batteries	Hagyeong Baek
P04	Practical evaluation of electrolyte additives for 5V LNMO graphite Li-ion cells: Quantification of gas evolution using Archimedes' principle	Markus Binder
P05	Model-Based Cell Design for Rechargeable Zinc-Ion Batteries	Niklas Borchers
P06	A Novel single-ion conducting polymer electrolyte for lithium-metal batteries	Xu Dong
P07	Investigations on Metal-Electrolyte Interfaces in Post-Lithium Battery Systems	Florian Fiesinger
P08	Investigations on Electrolytes for Post-Lithium Battery Applications	Tanja Geng
P09	A thin and uniform fluoride-based artificial interphase for the zinc metal anode enabling reversible Zn/MnO ₂ batteries	Jin Han
P10	Sodium biphenyl as anolyte for sodium–seawater batteries	Yong Il Kim
P11	Optimization and design of 3D electrode structures	Lukas Krumbein
P12	Automated Parameterization of Continuum Battery Models from Operando Measurements	Yannick Kuhn
P13	Lattice Boltzmann Simulations for Battery Applications	Martin Lautenschläger
P14	Recycled graphite anodes for lithium-ion batteries	Mayokun Olutogun

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P15	Effect of Li-Plating and SEI growth on fast-charging performance	Nireas Rigos
P16	Solvent-free ternary polymer electrolytes for sodium-ion batteries	Daniel Roscher
P17	Embedding of spheroidized graphite in indium and evaluation of the FIB/SEM data using machine learning	Stefan Sailer
P18	Design of an Electrochemical Flow Cell for Battery Research – Study of the Reactions in Vanadium Redox Flow Batteries	Monja Schilling
P19	Reactivity of Lithium-ion cathode materials in contact with water	Annika R. Schür
P20	Fluorine-free Protic Acidic Ionic Liquid for Mid-temperature Fuel Cell Application	Hanno M. Schütz
P21	Carbon fiber-based current collectors for low-cost, sustainable and metal-free organic lithium-ion batteries	Kai Shi
P22	Investigation of the lithium metal plating in ionic liquid-based electrolytes on nickel current collectors	Dominik Stepien
P23	Polymer electrodes for high-power lithium batteries	Po-Hua Su
P24	In-situ TEM investigation on grain boundaries in oxide electrolytes	Ziming Ding
P25	Morphological Changes of Lithium Metal during Dissolution, with and without Pressure	Martin Werres
P26	Role of particle design in micro-structure resolved simulations	Johannes Wiedemann
P27	Mitigating capacity and voltage decay of cobalt-free lithium-rich layered oxide cathodes using ionic liquid electrolytes	Fanglin Wu