On-Site Workshop

10th Workshop Lithium-Sulfur Batteries

July 3– 4, 2023 Fraunhofer IWS | Dresden

PROGRAM*

Monday, July 3, 2023

Session 1:	Cathode Chemistry Chair: Stefan Kaskel
13:00 (CET)	Opening Stefan Kaskel Fraunhofer IWS, TU Dresden
13:05	Plenary: Advances in rechargeable alkali metal/Cl2 batteries Hongjie Dai Stanford University
13:50	Surface-active organosulfur additives for Li-S cells Magdalena Muhr University of Nottingham
14:10	Electrolyte design for enhanced power capability of Li-S-batteries Sebastian Kirchhoff TU Dresden
14:30	The potential of SPAN as cathode active materials for Li-S rechargeable batteries Toru Yano ADEKA CORPORATION
14:50	Coffee Break
Session 2:	Cell Development Chair: Holger Althues
15:30	Keynote: Strategies for commercialization of Li-S batteries Changhoon Lee LG Energy Solution
16:00	Lithiated and metallic molybdenum disulfide as cathode host for high-performance
	lithium-sulfur batteries Ismail Sami University of Cambridge
16:20	lithium-sulfur batteries
16:20 16:40	lithium-sulfur batteries Ismail Sami University of Cambridge 2D graphene-based activated carbon-containing sulfur cathode and electrolyte engineering: a perfect marriage for the development of high energy density, safe and long cycle life lithium-sulfur batteries
	 lithium-sulfur batteries Ismail Sami University of Cambridge 2D graphene-based activated carbon-containing sulfur cathode and electrolyte engineering: a perfect marriage for the development of high energy density, safe and long cycle life lithium-sulfur batteries Alexander Santiago CIC energiGUNE Developing for production, developing for markets, developing for success
16:40	lithium-sulfur batteries Ismail Sami University of Cambridge 2D graphene-based activated carbon-containing sulfur cathode and electrolyte engineering: a perfect marriage for the development of high energy density, safe and long cycle life lithium-sulfur batteries Alexander Santiago CIC energiGUNE Developing for production, developing for markets, developing for success Michael Liedtke Zeta Energy Corp.

On-Site Workshop

10th Workshop Lithium-Sulfur Batteries

July 3– 4, 2023 Fraunhofer IWS | Dresden

Tuesday, July 4, 2023

Session 3:	Material Design Chair: Stefan Kaskel
09:00 (CET)	Opening Stefan Kaskel Fraunhofer IWS, TU Dresden
09:05	Plenary: Lithium-sulfur batteries with stabilized electrodes and interfaces Arumugam Manthiram University of Texas at Austin
09:50	Characterisation of lithium storage mechanisms in carbon current collectors using nuclear magnetic resonance spectroscopy (NMR) <i>Samantha Southern Imperial College London</i>
10:10	Composite electrode designs for stable lithium-sulfur batteries Zijian Zheng The Hong Kong Polytechnic University
10:30	High-sulfur fibrous cathode for enhanced lithium-sulfur battery performance Wei-Nien Su National Taiwan University of Science and Technology
10:50	Coffee Break
Session 4:	Mechanisms Chair: Holger Althues
11:30	Keynote: Understanding abnormal phenomena in anode-free lithium-sulfur batteries <i>Bing Joe Hwang Taiwan Tech</i>
12:00	NMR spectroscopic investigations of the performance limiting mechanisms of lithium- sulfur batteries Jana Fritzke University of Cambridge
12:20	Relevance of the electrode and cell design for the performance of Li-S Batteries – Continuum modeling as a tool for battery development <i>Timo Danner</i> <i>German Aerospace Center (DLR</i>)
12:40	On the nanoscale evolution of solid discharge products in Li-S batteries using operando scattering, electron microscopy and stochastic modelling <i>Christian Prehal</i> <i>University of Salzburg</i>
13:00	Concluding Remarks: Holger Althues Fraunhofer IWS
13:05	Lunch