Program

11th Workshop Lithium-Sulfur Batteries

November 11–12, 2024 Fraunhofer IWS | Dresden



Monday, November 11, 2024

SESSION 1:	MATERIAL DESIGN Chair: Stefan Kaskel, Fraunhofer IWS and TU Dresden
12:00 (CET)	Registration
13:00	Opening
13:05	Key Note: Porous Carbon Anodes Stabilizing S Species for Li-S Batteries Masashi Ishikawa, Kansai University
13:40	Advancements in Lithium-sulfurized Carbon Cells: Mechanical and Chemical Stability Insight Rodrigo Salvatierra, Zeta Energy
14:00	Beyond Intercalation: How Lithium-sulfur Batteries Will Transform the Future of Global Energy Storage Gareth Hartley, OXLiD/Gelion
14:20	Development of Cathode Active Material "S-PMMA" Tatsuya Kubo, Sumitomo Rubber
14:40	Morphological Changes for Lithium Deposition and Subsequent Dissolution in Bis(fluorosulfonyl)amidebased Ionic Liquids and Effect on Cycling Morgan L. Thomas, Keio University
15:00	Coffee Break
SESSION 2:	CELL DEVELOPMENT Chair: Holger Althues, Fraunhofer IWS
15:40	From Blue Sky to Pack: LiS Energy's Commercialisation of Lithium Sulfur Technology Steve Rowlands, Li-S Energy
16:00	Lyten's Advancements in Lithium-sulfur Batteries for Electric Vehicles Kumar Bugga, Lyten
16:20	Solid-state Lithium-sulfur Batteries Jean Marie Doux, SAFT
16:40	From Liquid to Solid State Lithium Sulfur Batteries Susanne Dörfler, Fraunhofer IWS

- 17:00 Concluding Remarks: Stefan Kaskel
- 17:15 Poster Session and Get Together

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Tuesday, November 12, 2024

SESSION 3:	CATHODE CHEMISTRY Chair: Stefan Kaskel, Fraunhofer IWS and TU Dresden
09:00 (CET)	Opening
09:05	Key Note: Nanoscale Perspectives on Electrochemical Conversion Pathways Christian Prehal, Uni Salzburg
09:40	Development of a New Li-S Battery Prototype by the Combination of a Nanostructured Graphene Cathode and a Sparingly Solvating Electrolyte <i>Daniel Carriazo, CIC energiGUNE</i>
10:00	Electrode Structures of Higher Order for Advanced Lithium-sulfur Batteries <i>Aamir Iqbal Waidha, Theion</i>
10:20	The Dual Role of the Argyrodite Solid Electrolyte as Ion Conductor and Active Material Precursor in Lithium / Sulfur Solidstate Batteries Konrad Münch, Justus-Liebig-Universität Giessen
10:40	Li2S Cathodes for Solid State Batteries Pascal Seete, TU Dresden
11:00	Coffee Break
SESSION 4:	MECHANISMS Chair: Holger Althues, Fraunhofer IWS
11:40	Strategies for Enhancing Sulfur Utilization in Lithium-sulfur Batteries Jun Hyuk Moon, Korea University
12:00	Exploring Solid Conversion Products in Lithium-sulfur Batteries through Cryo-TEM and Machine-learning-supported Small Angle Neutron Scattering <i>Jean-Mark von Mentlen, ETH Zürich</i>
12:20	A Numerical Operando Approach for Lithium-sulfur Batteries Based on Firedrake Max Okraschevski, German Aerospace Center (DLR)
12:40	Sulfolane-based Solvate Electrolytes for Li-S Batteries Kaoru Dokko, Yokohama National University
13:00	Concluding Remarks: Holger Althues
13:15	Lunch
14:00	Lab Tour (1 hour)