

Beyond Lithium Ion X

Poster List

Poster Number	Name of Presenter	Organization	Title of Poster
1	Wu Xu	Pacific Northwest National Laboratory	LiTFSI-LiBOB electrolytes and LiPF ₆ additive to enhance charging capability and cycling stability of rechargeable lithium metal batteries
2	Dahyun Oh	IBM Almaden Research Center	Guiding the Li ₂ O ₂ Nucleation on Cathode: Materials Selection and Porosity Control
3	Dingchang Lin	Stanford University	Advanced composite anodes for stable lithium metal batteries
4	Chongmin Wang	Pacific Northwest National Laboratory	Advanced Electron Microscopy Probing of Functioning Mechanisms of Nanoscale Surface Coating Layer for Mitigating Capacity Fading of Lithium ion Battery
5	Yayuan Liu,	Stanford University	Stabilization of Lithium Metal Anode via Three-Dimensional Composite Structure and Interfacial Engineering
6	Yuzhang Li	Stanford University	Revealing nanoscale passivation and corrosion mechanisms of reactive battery materials in gas environments
7	Jie Zhao	Stanford University	Metallurgically lithiated SiO _x anode with high capacity and ambient air compatibility
8	Allen Pei	Stanford University	Nanoscale nucleation and growth of electrodeposited lithium metal
9	Brion Hoffman	OHARA Corporation	Enhanced electrochemical performance of the lithium ion secondary battery using lithium ion conductive glass-ceramics
10	Dongping Lu	Pacific Northwest National Laboratory	Development of High Energy Cathodes for Lithium Sulfur Batteries
11	Guangmin Zhou	Stanford University	Catalytic oxidation of Li ₂ S on the surface of metal sulphides for Li-S batteries
12	Yuxing Wang	Pacific Northwest National Laboratory	Inorganic solid state electrolytes for lithium batteries
13	M. Rumpel	Fraunhofer Institute for Silicate Research ISC, Fraunhofer R&D Center for Electromobility Bavaria	Investigation on the Compatibility of LATP and High-Voltage Cathode Material for the Application in All-Solid-State Batteries
14	Florian Frech	Fraunhofer Institute for Silicate Research ISC, Center for Applied Electrochemistry	Development of thin-film solid electrolyte-electrode system for all-solid-state applications

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15	Wesley Beckner	University of Texas at Austin	Application of High Performance Computing and Machine Learning to Engineer Solvents for Flow Batteries
16	Srikanth Allu	Oak Ridge National Laboratory	The role of electrode particle and binder surface bonding in battery failure mechanism during large scale deformation
17	Zhuo Li	University of Rochester	Developing Li ion conductive electrolyte based on hydrogenated nitrile rubber
18	Han Song	MTI Corporation	High Throughput Experimental Methodologies for Accelerating Solid State Lithium-ion Battery Development
19	Tanghong Yi	Wildcat Discovery Technologies	Advances in Rechargeable CuF_2 – Li Metal Battery
20	Taeho Yoon	National Renewable Energy Laboratory	Solid Electrolyte Interphases of Silicon Lithium-Ion Anode
21	Munseok S. Chae	Department of Energy Systems Engineering, DGIST (Daegu Gyeongbuk Institute of Science & Technology), Republic of Korea	Potassium Nickel Hexacyanoferrate as a High-Voltage Cathode Material for Non-aqueous Magnesium-ion Batteries
22	Gui-Liang Xu	Argonne National Laboratory,	Insights into the Structural Effects of Layered Cathode Materials for High Voltage Sodium-ion ion Batteries
23	Seongmin Ha	School of Chemical and Biological Engineering, Institute of Chemical Processes, Seoul National University, Seoul, Republic of Korea	Failure mechanism of a redox mediator for Li-O_2 batteries
24	Wei Luo	University of Maryland College Park	Garnet Solid-State Electrolyte: Transition from Superlithiophobicity to Superlithiophilicity
25	Wei Luo	University of Maryland College Park	High Capacity Metallic Anodes Enabled by Carbonized Wood with 3D Porous Channels
26	Ruidong Yang	Toyota Research Institute of North America	Highly-Concentrated Aqueous Catholyte with Unprecedented High Energy Density Enabled by Two Electron Redox