

## **Session Program**

**28 June 2026 to 3 July 2026**



# **International Symposium on Beyond Lithium-Ion Batteries 2026 - BeLi26**

## ***Contributed Talks***

ETH Zurich, Paul-Scherrer-Auditorium ETA  
Gloriastrasse 37a 8006 Zürich

## Monday 29 June

11:35

### Contributed Talks: Pronoy Dutta - Unraveling Nanoscale Sulfur Conversion in Li-S Batteries: From Polysulfide Solubility to Quasi-Solid-State Pathways

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

11:50

11:50

### Contributed Talks: Neeha Gogoi - Decoupling the Role of Polymeric Coatings and Sulfur Loading in Lithium-Sulfur Battery Cathodes

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

12:05

14:25

### Contributed Talks: Matteo Palluzzi - Novel Non-Fluorinated Hückel-Type Sodium Salts and Their Impact on Performances and SEI Composition in Sodium-Ion Batteries

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

14:40

14:40

### Contributed Talks: Hafiz Ahmad Ishfaq - Dynamic Electrochemical Impedance Spectroscopy Insights into Magnesium Metal Improvement by Fluorinated Ether Electrolytes

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

14:55

14:55

### Contributed Talks

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

15:10

15:10

### Contributed Talks: David Reber - Metal-Organic Negative Electrolytes for High-Power Redox Flow Batteries

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

15:25

16:30

### Contributed Talks: Elene Sasieta-Barrutia - Ion Design for Advanced Electrolytes: From Molecular Innovation to Energy Applications

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

16:45

16:45

### Contributed Talks: Jonathan Caroni - Unraveling the Sodium Storage Mechanism in a Redox-Active Covalent Organic Framework Cathode for Na-Metal Batteries

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

17:00

17:25

### Contributed Talks: Ayyoub El-Bchiri - Synthesis of Spinel Mg<sub>1.1</sub>Mn<sub>1.9</sub>O<sub>4</sub> via Flash Lamp Annealing for High-Performance Aqueous Zinc-Ion Batteries

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

17:40

17:40

### Contributed Talks: Sabrina Duswald - Cradle-to-Gate Life Cycle Assessment of Potassium-Ion Batteries: Environmental Impacts under Current and Future Energy Systems

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

17:55

## Tuesday 30 June

11:35

**Contributed Talks: Muath Radi - Electrolyte Additives to Enhance Mg Plating/Stripping Kinetics in Rechargeable Magnesium Batteries via Interphase Engineering**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

11:50

11:50

**Contributed Talks: Ayca Senol Güngör - Intraparticle Heterogeneity Limits Capacity in Lithium-Sulfur Batteries with Carbonate Electrolyte**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

12:05

14:30

**Contributed Talks: Samuel Gatti - Na-Environment Induced Divergence of Structural Rearrangement Pathways in Oxygen-Redox Active Layered Mn-Oxides**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

14:45

14:45

**Contributed Talks: Diana Golodnitsky - Interfacial Chemistry and Na<sup>+</sup> Transport in Modified Tunnel-Type Na<sub>0.44</sub>MnO<sub>2</sub> Cathode**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

15:00

15:00

**Contributed Talks: Leonardo Sbrascini - In-situ Sodium Compensation in Sodium-poor Prussian Blue Analogues for Sodium-ion Battery Applications**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

15:15

15:15

**Contributed Talks: Javearia Tariq - Elucidating the Dominant Charge Compensation Mechanism Governing Air Stability in Sodium-based Transition Metal Oxide Cathode Materials for Sodium-ion Battery Applications**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

15:30

16:35

**Contributed Talks: Ömer Özgür Çapraz - The Coupling between Electrochemical Performance and Chemo-Mechanical Instabilities in Na-ion Battery Electrodes**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

16:50

16:50

**Contributed Talks: Chien-Rung Shih - Investigating Effects of Solid-electrolyte Interphase Solubility and Reactivity on Ether-based Electrolyte Performance for Sodium Metal Anode**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

17:05

17:30

**Contributed Talks: Rachel Huang - Ion & Polymer Specific Effects on Salt Partition in Cation Exchange Membranes (CEMs)**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

17:45

17:45

**Contributed Talks: Kausik Mukhopadhyay - Sepiolite-Betaine: Next Generation Clay-Zwitterion Battery Separators**

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

18:00

## Wednesday 1 July

09:40

### **Contributed Talks: Prabeer Barpanda - Harnessing Oxide Cathodes for Secondary Zn-ion Batteries**

**Session** | **Location:** ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

09:55

09:55

### **Contributed Talks: Aashutosh Mistry - The Curious Case of Hydrogen Evolution on Zinc Electrode in Acidic Media**

**Session** | **Location:** ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

10:10

## Thursday 2 July

11:10

### Contributed Talks: Noah Lettner - Thermodynamically Consistent Modeling of Ion Exchange Membranes for Aqueous Batteries and Other Multi-ionic Environments

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

11:25

11:25

### Contributed Talks: Zhao Li - Multiscale Operando Insights into Mg-Li Hybrid-Ion Battery Chemistry

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

11:40

11:40

### Contributed Talks: Mohammed Ahmed Zabara - Probing Sodium Storage and Degradation Pathways in Hard Carbon Anodes

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

11:55

11:55

### Contributed Talks: Anshuman Chaupatnaik - A New Universal Class of Cubic Alkali Organic-Inorganic Halide-Glyme

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

12:10

14:30

### Contributed Talks: Leon Skarjan - Operando Neutron Capture Imaging of Lithium Metal Batteries: Visualizing Plating and Stripping Under Realistic Cycling Conditions

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

14:45

14:45

### Contributed Talks: Filiz-Pinar Seren - Operando Light Microscopy of Lithium Metal Growth at Very High Rates: the Effect of Ionic Depletion

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

15:00

15:00

### Contributed Talks: Quan Wu - Interfacial Reconstruction via Ionic Liquid Additives Enables Dendrite-Free High-Temperature Lithium-Metal Batteries

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

15:15

15:15

### Contributed Talks: Leiting Zhang - Quantifying Battery Chemomechanical Degradation with Online Acoustic Emission Sensing

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

15:30

16:35

### Contributed Talks: Manuel Reiter - Asymmetric Fluorination of Cationic Additives for Improved Li-metal Anode Stability

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

16:50

16:50

### Contributed Talks: Michael Wolf - Microstructure Evolution in Dry Coated Sulfidic All-Solid-State Battery Cathodes: Core-Shell Particle Coating via Batch- and Extruder-Mixing

Session | Location: ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

17:05

17:30

### Contributed Talks: Josef Rizell - Growth Dynamics and Pore Formation in Lithium Metal Electrodes

**Session** | **Location:** ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

17:45

17:45

**Contributed Talks: Cara Day - Phase Evolution in Lithium/Proton-Exchanged  $\text{LiNiO}_2$  from Combined Diffraction and Spectroscopy: Towards Aqueous Cathode Systems**

18:00

**Session** | **Location:** ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

## Friday 3 July

11:10

### **Contributed Talks: Shun Sasano - Highly Reversible Sn-based Intermetallic Alloy Cathode for Fluoride-ion Batteries**

**Session** | **Location:** ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

11:25

11:25

### **Contributed Talks: Vaibhav Deshmukh - DFT Study of NaFePO<sub>4</sub> Cycling: Thermodynamic versus Metastable Pathways**

**Session** | **Location:** ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

11:40

11:40

### **Contributed Talks: Barathi Palani - Entropy-Engineered Multi-Metallic MOFs Unlock High-Performance Ammonium-Ion Storage**

**Session** | **Location:** ETH Zurich, Paul-Scherrer-Auditorium ETA, Gloriastrasse 37a 8006 Zürich

11:55