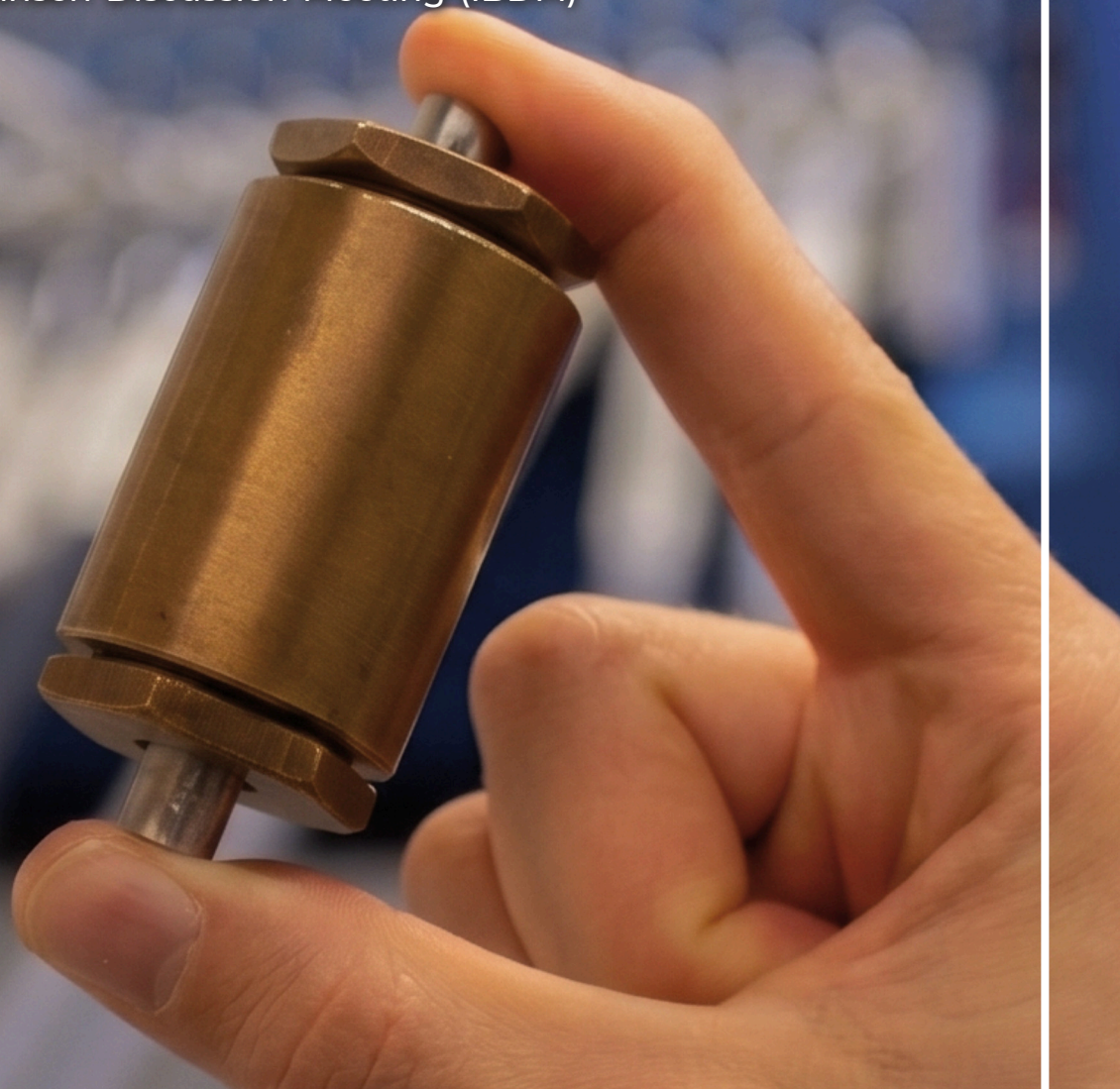




SOLID-STATE BATTERIES VII

FROM FUNDAMENTALS TO
APPLICATION

An International Bunsen Discussion Meeting (IBDM)



OCTOBER 07-09, 2026

House of Logistics & Mobility (HOLM)

FRANKFURT/MAIN

**SHORT
PROGRAMME**

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Wednesday, Oct 07, 2026

11:30 Registration

12:00 Lunch

13:00 Welcome and Opening Remarks

Session I: Lithium Metal Anodes, Mechanics & Dendrite Growth

13:15 **KEYNOTE LECTURE** **Kyusung Park** (Suwon/KR)
All-Solid-State Batteries: Industrial Challenges and Open Questions on the Path to Commercialization

14:00 Low-Pressure Cycling of Lithium Metal Anodes With Argyrodite Solid-State Electrolytes Enabled by an Sb-Based Interfacial Layer **Jaka Šivavec** (Zürich/CH), M. Klimpel (Zürich/CH), J. F. Baumgärtner (Zürich/CH), H. Zhang (Zürich/CH), B. Erdivan (Zürich/CH), R. Widmer (Dübendorf/CH), K. V. Kravchyk (Zürich/CH), M. V. Kovalenko (Zürich/CH)

14:20 Suppressing Copper Corrosion via Nanoscale Surface Engineering in Sulfide Zero-Excess Lithium Metal Batteries **Robin N. Wullich** (Villingen/CH), Jinsong Zhang (Villingen/CH), Lorenz Gubler (Villingen/CH), Mario El Kazzi (Villingen/CH)

14:40 **KEYNOTE LECTURE** **Jean-Marie Tarascon** (Paris/FR)
New electrolytes and modified interfaces for solid-state batteries

15:25 Exhibitor Presentations

15:45 Coffee Break

16:15 **INVITED LECTURE** **Mauro Pasta** (Oxford/UK)
The Lithium-Argyrodite Interface in Solid-State Batteries

16:45 Mechanical Boundary Conditions Control the Microstructure of Electrodeposited Lithium in Solid-State Batteries **Soroush Motahari** (Düsseldorf/DE), Y. Zhang (Düsseldorf/DE), Dierk Raabe (Düsseldorf/DE)

17:05 **INVITED LECTURE** **Dominic Bresser** (Ulm/DE; Karlsruhe/DE)
The Importance of the Current Collector in Lithium-Metal Batteries

17:35 From Resistive to Conductive Interphases: Mechanochemical Design of High-loading Solid-state Si-argyrodite Composite Anodes **Wenxuan Zhao** (Delft/NL), Z. Cheng (Delft/NL), S. Ganapathy (Delft/NL), M. Wagemaker (Delft/NL)

17:55 Flaw Size Controlled Li Dendrite Initiation in Garnet Solid Electrolyte **Yuwei Zhang** (Düsseldorf/DE), Chuanlai Liu (Düsseldorf/DE), Gerhard Dehm (Düsseldorf/DE)

18:15 Poster Speed Talks

18:45 Poster Session, "Dinner@Poster I" Poster numbers 101 – 158

Thursday, Oct 08, 2026		
Session II: Operando Diagnostics & Advanced Characterization		
08:30	KEYNOTE LECTURE Contact Loss and Plating in LLZO-Based All-Solid-State Li-ion Batteries	S. Vema (Cambridge/UK), N.A. Fleck (Cambridge/UK), V.S. Deshpande (Cambridge/UK), Clare P. Grey (Cambridge/UK)
09:15	Multi-Modal Correlative Workflow for Degradation Analysis in Solid-State Pouch Cells	Rashmi Tripathi (Oberkochen/DE), D. Lysenkov (Oberkochen/DE), H. Kamimori (Nagoya/Jp); K. Ouchi (Tokyo/Jp), T. Schubert (Aalen/DE), D. Stowe (Pleasanton/US), S. Mu (Pleasanton/US), A. du Plessis (Kaiserslautern/DE), R. Buchheit (Kaiserslautern/DE), J. Lea (High Wycombe/UK), N. Zhelev (Southampton/UK)
09:35	Operando Cross-Sectional Observation of SOC and Strain Distributions during Charge/Discharge in All-Solid-State LIBs	Daichi Horikawa (Osaka/Jp), Y. Ito (Osaka/Jp), Y. Kasai (Osaka/Jp), K. Sugiura (Osaka/Jp), Y. Fujiwara (Osaka/Jp)
09:55	Setup Development to Study the Influence of Stack Pressure on Solid State Pouch cells	Tejaswini Kumbharde (Pfinztal/DE), Julia Töws (Giessen/DE), Philipp Heugel (Pfinztal/DE), Sebastian Geiger (Pfinztal/DE), Franziska Klein (Pfinztal/DE), Jens Tübke (Pfinztal/DE)
10:15	Coffee Break	
10:45	INVITED LECTURE Understanding Transport Limitations in Solid State Batteries by Multiprobe Operando Techniques	Claire Villevieille (Grenoble/FR)
11:15	Transport-Controlled Reaction Fronts and Inhomogeneity in Halide-Based LMO Solid-State Batteries Through Operando Z-Profile XRD and XRD-CT	B. Stamenkovic (Nantes/FR), E. Quarez (Nantes/FR), O. Thompson (Grenoble/FR), C. Villevieille (Grenoble/FR), P. Moreau (Nantes/FR), Joel Gaubicher (Nantes/FR)
11:35	Operando ToF-SIMS Enables Direct Observation of Elusive Reaction Intermediates in Solid-State Batteries	Anja Henss (Giessen/DE), T. Weintraut (Giessen/DE), K. Münch (Giessen/DE), T. Fuchs (Giessen/DE), M. Pavan (Giessen/DE), J. Janek (Giessen/DE)
11:55	Clarifying the Role of the Electrode-Electrolyte Interface With Operando Impedance Spectroscopy	Jake Huang (Münster/DE), A. Häußler (Münster/DE), D. Thöle (Münster/DE), W. Zeier (Münster/DE)
12:15	Lunch	

Session III: Cell Concepts, Processing & Upscaling		
13:30	Gradients and Instabilities in Solid-State Batteries	Partha P. Mukherjee (West Lafayette/US)
14:15	Simulation and Structural Analysis of the Calendering of Dry Coated Sulfide Solid-State Battery Cathodes	Caroline Willuhn (Braunschweig/DE), F. Frankenberg (Braunschweig/DE), A. Kwade (Braunschweig/DE)
14:35	Unveiling the Thermal Behavior and Potential of Sulfide-Based All-Solid-State Batteries by Measurement and Simulation	Christoph Mauersberger (Munich/DE), A. Kunz (Munich/DE), A. Weber (Munich/DE), A. Jossen (Munich/DE)
14:55	INVITED LECTURE Solid State Batteries: Between Promise and Practical Implementation	Franziska Friedrich (Munich/DE)
15:25	Coffee Break	
15:55	KEYNOTE LECTURE Sulfidic Solid Electrolytes: A Critical Enabler for Next-Generation High-Energy Batteries	Susanne Dörfler (Dresden/DE), H. Rahimi (Dresden/DE), F. Hippauf (Dresden/DE), T. Abendroth (Dresden/DE), P. Härtel (Dresden/DE), H. Althues (Dresden/DE), S. Kaskel (Dresden/DE)
16:40	Scalable Synthesis of Cost- Efficient Oxyhalide Solid Electrolytes for Lithium-Ion Solid-State Batteries	Axel Rost (Dresden/DE), M. Pöthe (Dresden/DE), K. Wätzig (Dresden/DE), K. Nikolowski (Dresden/DE)
17:00	Industrialization of Cylindrical Sulfide-Based All-Solid-State Batteries	Santiago Navarro (Munich/DE), F. Steinlehner (Augsburg/DE), S. W. Zangerle (Munich/DE), R. Daub (Garching/DE)
17:20	INVITED LECTURE Next-Generation All-Solid-State Battery Materials: Assessment and Enabling Technology Development in SOLiD-Next	Yoshiya Fujiwara (Osaka/Jp), Y. Katayama (Osaka/Jp), Y. Fukuyama (Osaka/Jp), K. Kawamoto (Osaka/Jp), T. Miyuki (Osaka/Jp)
17:50	Poster Speed Talks	
18:20	Poster Session, "Dinner@Poster II"	Poster numbers 201 – 258

SSB VII IS SUPPORTED BY



Friday, Oct 09, 2026		
08:30	KEYNOTE LECTURE The Future is Hopefully Solid! – Gotion's R&D Progress and Outlook for All-Solid-State Batteries	Ruijun Pan (Shanghai/CN)
Session IV: Alternative Systems and Characterisation		
09:15	INVITED LECTURE Understanding Charge Transport at Interfaces in Solid State Batteries	Yan-Yan Hu (Tallahassee/US)
09:45	Beyond Polyethylene Oxide: The Development of a Lewis Basic Green Polymer Electrolyte for Lithium-ion Batteries	Abderrahmane El Antari (Benguerir/MA), H. Benyoucef (Benguerir/MA), M. Lahcini (Marrakech/MA), S. Abouricha (Benguerir/MA)
10:05	Mechanism-Guided Design of Hybrid Single-Ion Polymer/Ceramic Electrolytes for Sodium Batteries	Yixuan Guo (Ulm/DE), H. Kang (Seoul/KR), M. Zarrabeitia (Ulm/DE), L. Roselli (Ulm/DE), V. Marangon (Ulm/DE), J.-Y. Hwang (Seoul/KR), D. Bresser (Ulm/DE)
10:25	Coffee Break	
Session V: Cathode Active Materials & Interfacial Engineering		
10:55	INVITED LECTURE Interfacial Behavior of Cathode Materials for Sulfide-Based All-Solid-State Batteries	Kyu Tae Lee (Seoul/KR)
11:25	Surface Modifications of Cathodes in Solid State Batteries	Malachi Noked (Ramat-Gan/IL), D. Sharon (Jerusalem/IL)
11:45	Thermodynamics and Kinetics of Conversion Reactions in All-Solid-State Batteries: Iron Disulfide as a Model Active Material	Matilde Pavan (Giessen/DE), F. Hueppe (Marburg/DE), K. Vettori (Giessen/DE), T. Weintraut (Giessen/DE), S. Ohno (Sendai/JP), A. Henss (Giessen/DE), K. Volz (Marburg/DE), J. Janek (Giessen/DE)
12:05	Beyond a Passive Ion Conductor: Transport and Electrolyte-Derived Sulfur in All-Solid-State Li-S Cathodes	Saneyuki Ohno (Sendai/JP)
12:25	Supercooled, Low-Melting Lithium Salt for Cathode–Electrolyte Interfacial Stabilization in Sulfide-Based Solid-State Batteries	Yuta Ito (Osaka/JP), M. Otoyama (Osaka/JP), Y. Fujita (Osaka/JP), T. Okumura (Osaka/JP), K. Yoshii (Osaka/JP)
12:45	Dual-Electrolyte Solid-State Batteries and the Problem of Triple-Phase Boundary Instability	Leonardo Merola (Giessen/DE), V. K. Singh (Waterloo/CA), M. Schäfer (Giessen/DE), E. Cortese (Giessen/DE), K. Natarajan Pugazhendhi (Waterloo/CA), A. Weiß (Giessen/DE), L. Qian (Waterloo/CA), S. Singh (Waterloo/CA), S. L. Benz (Giessen/DE), J. Sann (Giessen/DE), A. Bielefeld (Braunschweig/DE), J. K. Eckhardt (Giessen/DE), B. Singh (Waterloo/CA), B. Aktekin (Giessen/DE), F. H. Richter (Giessen/DE), J. Sakamoto (Santa Barbara/US), L. F. Nazar (Waterloo/CA), J. Janek (Giessen/DE)
13:05	Concluding Remarks	
13:15	Lunch and Departure	

- P 101 Aliovalent Substitution in Li₂ZrCl₆ Halide Electrolytes: Linking Lithium Content, Phase Stability and Ionic Transport**
Raül Artal (Madrid/ES), H. L. Andersen (Madrid/ES), A. Pesce (Madrid/ES), R. Jiménez (Madrid/ES), P. López-Aranguren (Madrid/ES), A. Aguadero (Madrid/ES)
- P 102 PAT-Cell-Solid: Standardized Cell Design for Reproducible and Comparable ASSB**
J. Römer (Hamburg/DE), B. Bugenhagen (Hamburg/DE), A. Baumann (Hamburg/DE), M. Hahn (Hamburg/DE)
- P 103 Silicon Architecture and Processing-Dependent Microstructural Evolution in Solid-State Batteries by X-ray Nano-holo-tomography**
M. Chatterjee (Grenoble/FR), W. Zhao (Delft/NL), M. Wagemaker (Delft/NL), V. Vanpeene (Grenoble/FR), J. Villanova (Grenoble/FR), S. Lyonnard (Grenoble/FR)
- P 104 Redefining the Roles of Halide Solid Electrolytes in All-Solid-State Batteries**
Zhu Cheng (Delft/NL), W. Zhao (Delft/NL), M. Wagemaker (Delft/NL)
- P 105 How to Utilize High-Throughput Concepts and Automation for Battery Materials Development in the Age of AI**
P. Minnmann (Heidelberg/DE), A. Salhani (Heidelberg/DE), C.-L. Tsai (Heidelberg/DE), A. Windmüller (Heidelberg/DE), F. Huber (Heidelberg/DE), C. Langheck (Heidelberg/DE), S. Altwasser (Heidelberg/DE)
- P 106 LiFePO₄ as an Excellent Solid Electrolyte for Lithium Metal Batteries**
Yuping Wu (Nanjing/CN)
- P 107 Charged vs. Discharged State Cathode Assembly in Copper-Sulfide All-Solid-State Batteries: Unraveling Interphase Evolution by Operando HAXPES**
G. N. Srinivas (Berlin/DE), K. A. Mazzio (Vienna/AT), C. Bai (Berlin/DE), E. Kataev (Berlin/DE), R. Duarte (Berlin/DE), M. Bär (Berlin/DE), P. Adelhelm (Berlin/DE)
- P 108 Dual-Interface Engineering for Solid-State Lithium Batteries**
T. Wang (Nanjing/CN), Y. Wu (Nanjing/CN)
- P 109 Investigating Electrical and Thermal Transport Properties in the NaCrO₂|NaTaCl₆ Sodium Cathode Composite**
A. Morscher (Münster/DE), W. G. Zeier (Münster/DE)
- P 110 Dry and Solvent-based Manufacturing of Sulfide-Based Solid-State Lithium-Ion Batteries**
Carina Amata Heck (Braunschweig/DE), F. Frankenberg (Braunschweig/DE), P. Haase (Braunschweig/DE), K. Voges (Braunschweig/DE), P. Michalowski (Braunschweig/DE), A. Kwade (Braunschweig/DE)
- P 111 Harnessing Anode Reactivity Together With High Voltage Stability: How to Tame a Deep Eutectic Electrolyte for Viable Lithium Metal Batteries?**
M. Mohankumar (Delft/NL), P. Karanth (Delft/NL), W. Zhao (Delft/NL), L. Huet (Delft/NL), S. Picken (Delft/NL), S. Ganapathy (Delft/NL), M. Wagemaker (Delft/NL)
- P 112 Evolution of Fabrication-Induced Residual Stresses in Solid-State Batteries**
Karol Vegso (Bratislava/SK), P. Siffalovic (Bratislava/SK), E. Simon (Bratislava/SK), P. Ayyanusamy (Bratislava/SK), J. Todt (Leoben/AT), J. Keckes (Leoben/AT), N. Schell (Hamburg/DE)
- P 113 Transport Engineering and Solid-State Integration of Dense LiNi_{0.5}Mn_{1.5}O₄ (LNMO) Cathodes**
Q. Wölflick (Garching/DE), J. Rupp (Garching/DE), K. J. Kim (Garching/DE)

- P 114 Beyond Quasi-1D Transmission-Line Models: Microstructural Impedance Signatures in Solid-State Composite Cathodes**
F. Schug (Giessen/DE), M. Braun (Giessen/DE), S. Kremer (Giessen/DE), M. Kissel (Giessen/DE), J. Schubert (Giessen/DE), C. Heiliger (Giessen/DE), J. K. Eckhardt (Giessen/DE)
- P 115 New Binder for Positive Electrode in Sulfide Solid State Battery**
E. Mourey Pineira (Grenoble/FR), F. Alloin (Grenoble/FR), L. Marchal (Pierre Bénite/FR), C. Villevieille (Grenoble/FR)
- P 116 Deploying Ultrafast Sintering Approaches to Mitigate Interfacial Degradation in LiFePO₄/NASICON All-Solid-State Lithium Batteries**
J. C. Gonzalez-Rosillo (Barcelona/ES), A. G. Sabato (Barcelona/ES), D. M. Ferreira (Barcelona/ES), F. Monteiro-Freitas (Barcelona/ES), A. Rey Cortés (Barcelona/ES), K. Castelló Lux (Barcelona/ES), O. Skurikhina (Barcelona/ES), M. Bertrand (Barcelona/ES), A. Morata (Barcelona/ES), A. Tarancón (Barcelona/ES)
- P 117 Oxygen Induced Structural Evolution and Improved Interfacial Stability of Na₃PS₄ Solid Electrolytes**
A. Panda (Münster/DE), W. G. Zeier (Münster/DE)
- P 118 From the Artificial Grey Mass of Sulfide-Based Assbs to Resynthesized Sulfide-Based Solid Electrolyte Li₆PS₅Cl**
N. Philipp (Braunschweig/DE), J. Graf-Schlenkrich (Braunschweig/DE), S. Melzig (Braunschweig/DE), S. Zellmer (Braunschweig/DE)
- P 119 Tailoring Co-Sintering Compatibility for LLZO-Based Multilayer Solid-State Batteries**
M. Reis (Garching/DE), S. Weinmann (Garching/DE), J. Schäfer (Garching/DE), N. Isaev (Garching/DE), J. Rupp (Garching/DE), K. J. Kim (Garching/DE)
- P 120 Processing of Gel Polymer Electrolyte Films for Semi-Solid-State Batteries**
H. R. Sharafi (Bayreuth/DE), T. Gerdes (Bayreuth/DE), C. Roth (Bayreuth/DE)
- P 121 Reconstructing Transport in Composite Cathodes under Pressure**
J. C. Hickey (Münster/DE), L. Ketter (Münster/DE), W. G. Zeier (Münster/DE)
- P 122 Tailoring Magnesium-Based Antiperovskite Solid Electrolytes through Composite Design and Defect Engineering**
P. Hoffmann (Ulm/DE), D. Villalva (Ulm/DE), O. Elkafif (Ulm/DE), T. Jacob (Ulm/DE), H. K. Hassan (Ulm/DE)
- P 123 Ternon – Scaling Dry-Coated Electrodes for Solid-State Batteries**
E. Quérel (Dübendorf/CH), C. Battaglia (Dübendorf/CH)
- P 124 Planetary Mill Calorimetry: A Novel Quantitative Mechanical Abuse Method for ASSB Material**
F. Salk (Pfinztal/DE), T. Bayha (Pfinztal/DE), S. Scharner (Munich/DE), P. Heugel (Pfinztal/DE), M. Miller (Pfinztal/DE), T. Berger (Pfinztal/DE), F. Klein (Pfinztal/DE), J. Tübke (Pfinztal/DE)
- P 125 Visualizing Pressure-Driven Processes in All-Solid-State Lithium Metal Batteries using X-Ray Computed Tomography**
L. Weckelmann (Jülich/DE), C.-L. Tsai (Jülich/DE), K. Dzieciol (Jülich/DE), C. König (Jülich/DE), H. Kungl (Jülich/DE), A. Windmüller (Jülich/DE), L. Rajmakers (Jülich/DE), R.-A. Eichel (Jülich/DE)
- P 126 Quantifying Sulfide Electrolyte Degradation on Silicon Anodes by Coulometric Titration Time Analysis**
F. Rossi (Giessen/DE), B. Aktekin (Ankara/TR), L. Hao (Giessen/DE), M. Becker (Giessen/DE), A. Weiß (Giessen/DE), A. Bielefeld (Braunschweig/DE), P. J. Klar (Giessen/DE), J. Sann (Giessen/DE), J. Janek (Giessen/DE)

- P 127 Unravelling Degradation Pathways and CEI-Kinetics in NCM|LPSCI containing Solid State Batteries via Operando SIMS**
P. Dippell (Giessen/DE), J. Hubl (Giessen/DE), S. Kremer (Giessen/DE), J. Schubert (Giessen/DE), J. Westphal (Giessen/DE), L. Schuster (Giessen/DE), J. Heßlig (Giessen/DE), M. Kissel (Giessen/DE), J. K. Eckhardt (Giessen/DE), J. Janek (Giessen/DE), M. Rohnke (Giessen/DE)
- P 128 Composition-Dependent Ion Transport in Amorphous Oxyhalides**
S. Itakura (Sendai/JP), J. Huang (Münster/DE), I. Honma (Sendai/JP), S. Ohno (Sendai/JP)
- P 129 Direct Recycling of Garnet-Type LLZO Solid Electrolyte via Solid-State and Hydrothermal Regeneration**
W. Oh (Garching/DE), J. Rupp (Garching/DE)
- P 130 Influence of Rapid Thermal Annealing Conditions on the Sintering of Oxide Solid-State Electrolytes**
S. Jankhunthod (Southampton/GB), A. P. Vijaya Kumar Saroja (Southampton/GB), B. Moog (Southampton/GB), N. Garcia-Araez (Southampton/GB), C. Holmes (Southampton/GB)
- P 131 pH-Controlled Sol-Gel Synthesis Enables Reproducible Cubic Al-Doped LLZO With Enhanced Ionic Transport**
R. Dong (Ulm/DE), Y. He (Ulm/DE), Y. Guo (Ulm/DE), W. Wang (Ulm/DE), T. Diemant (Ulm/DE), D. Bresser (Ulm/DE)
- P 132 Exploring Dehydration Mechanisms and Conductivity Optimization in Li₃InCl₆·xH₂O via In-Situ Synchrotron Techniques**
J.-Y. Huang (Taipei/TW), R.-S. Liu (Taipei/TW)
- P 133 Tailoring Quinone Redox Systems for High-Performance Sulfide Solid-State Organic Lithium Metal Batteries**
X. Lin (Louvain-la-Neuve/BE), S.-G. Kim (Louvain-la-Neuve/BE), P. Apostol (Louvain-la-Neuve/BE), J.-F. Gohy (Louvain-la-Neuve/BE), A. Vlad (Louvain-la-Neuve/BE)
- P 134 Three Ion Pathways in Polymer/Ceramic Composite Electrolytes: A Multiscale Perspective**
M. Kozdra (Münster/DE), L. Hölzer (Münster/DE), D. Brandell (Uppsala/SE), A. Heuer (Münster/DE)
- P 135 Development of an In-House Operando Xrd Technique for the Observation of Lithium-Ion Diffusion in NMC-based SSB**
S. Neelanarayanan (Bratislava/SK), K. Vegso (Bratislava/SK), P. Siffalovic (Bratislava/SK), M. Arslan Raza (Bratislava/SK), P. Ayyanusamy (Bratislava/SK)
- P 136 Multifunctionality of Solid-State Electrolytes for Next-Generation Batteries**
A. P. Vijaya Kumar Saroja (Southampton/GB), A. Kumar (Madras/IN), Ramaprabhu S (Madras/IN), C. Craig (Southampton/GB), B. Moog (Southampton/GB), S. Jankhunthod (Southampton/GB), B. Dong (Southampton/GB), P.-J. Sazio (Southampton/GB), A. Hector (Southampton/GB), C. Holmes (Southampton/GB), N. Garcia-Araez (Southampton/GB)
- P 137 Unveiling the Structure-Property Relationship of PO₄³⁻ Anion Incorporation in Zr-Based Halide Solid Electrolytes**
C. Azabal (Donostia-San Sebastián/ES), O. Pajuelo (Donostia-San Sebastián/ES), J. Seco (Donostia-San Sebastián/ES), P. Siffalovic (Bratislava/SK), E. Simon (Bratislava/SK), K. Marshall (Grenoble/FR), A. Schena (Ninove/BE), I. Villaluenga (Donostia-San Sebastián/ES)
- P 138 Investigating Interfacial Reactivity in LFP-Based Positive Electrodes for All-Solid-State Batteries**
I. Ghilescu (Paris/FR), J. M. Tarascon (Paris/FR), C. Laberty-Robert (Paris/FR)

- P 139 Interfacial Degradation via Rocksalt Reconstruction and Electrolyte Porosity in Ni-Rich NCM-LPSCI SSBs**
R. Raviya (Marburg/DE), T. Demuth (Marburg/DE), F. Hüppe (Marburg/DE), J. Haust (Marburg/DE), J. Belz (Marburg/DE), S. Ahmed (Marburg/DE), M. Kissel (Giessen/DE), J. Janek (Giessen/DE), K. Volz (Marburg/DE)
- P 140 Translating Silicon's High-Energy Promise Into Low-Pressure, Multilayer Sulfide Pouch Cells**
T. Quoc-Anh (Trondheim/NO)
- P 141 Developing Cathode Materials for Sodium Solid-State Batteries with closo-Borate Solid Electrolytes**
Y. Yang (Berlin/DE), P. Adelhelm (Berlin/DE), J. Budde (Bremen/DE), I. Bardenhagen (Bremen/DE), A. Brügel (Würzburg/DE), M. Finze (Würzburg/DE), H. Braunschweig
- P 142 Experimental Setup for *in-situ* Determination of Conductivity-Porosity-Pressure Relationships during Compression of Solid Electrolytes and of Cathode Active Materials**
V. Miß (Marburg/DE), F. Lange (Marburg/DE), S. Staubitz (Marburg/DE), B. Roling (Marburg/DE)
- P 143 The Influence of Pressure, Carbon Particles and Current Collectors in Anode-Free Solid-State Batteries**
J. O. Weiershäuser (Marburg/DE), B. Roling (Marburg/DE), V. Miß (Marburg/DE)
- P 144 Electrochemical- and Structural Analysis of Multicomponent Li-Garnets**
B. Zimmermann (Giessen/DE), T. Fuchs (Giessen/DE), A. Henss (Giessen/DE), M. Lepple
- P 145 Role of Densification Mode and Pressure in Solid-state Batteries**
M. S. Malmer (Trondheim/NO), M. Agrawal (Trondheim/NO), I. S. Ellingsen (Trondheim/NO), M. Sadeqi-Moqadam (Trondheim/NO), Q. A. Tran (Trondheim/NO), R. Zettl (Trondheim/NO), V. Hennige (Trondheim/NO), D. Rettenwander (Trondheim/NO)
- P 146 Highly Correlated Ion Transport in Irreducible Electrolytes for All-Solid-State Lithium Metal Batteries**
T. Gu (Delft/NL), S. Ganapathy (Delft/NL), M. Wagemaker (Delft/NL)
- P 147 Near-Pressureless Sodium Solid-State Batteries Using Screen-Printed Electrodes**
J. Budde (Bremen/DE), I. Bardenhagen (Bremen/DE), A. Borchers (Forchheim/DE), J. Schwenzel (Bremen/DE)
- P 148 Optimization of Sintering Strategies for Ceramic Solid Electrolytes Towards Scalable Manufacturing of Solid-State Batteries**
A. Anand (Aachen/DE), D. Kim (Aachen/DE)
- P 149 Dynamic Si Interfaces Enabled by Irreducible Solid Electrolytes for near-100% Initial Coulombic Efficiency**
W. Zhao (Delft/NL), Z. Cheng (Delft/NL), S. Ganapathy (Delft/NL), M. Wagemaker (Delft/NL)
- P 150 Halide Engineering Boosts Highly Reversible All-Solid-State Sodium-Sulfur Batteries**
W. He (Berlin/DE), P. Adelhelm (Berlin/DE)
- P 151 A Stable Voltage Is Not Enough: Evaluating Reference Electrodes in Solid-State Batteries**
J. Zhang (Münster/DE), J. D. Huang (Münster/DE), W. G. Zeier (Münster/DE)
- P 152 Advancing Solid-State Batteries Towards Higher TRL: Development of Practical Cells**
D. Di Lecce (Donostia-San Sebastián/ES), K. Vattappara (Donostia-San Sebastián/ES), M. Cobos (Donostia-San Sebastián/ES), I. Urdampilleta (Donostia-San Sebastián/ES), A. Kvasha (Donostia-San Sebastián/ES)
- P 153 Interfacial Stability and Ion Transport in Halide/Sulfide Bilayer Electrolytes for Sodium Solid-State Batteries**
R. Ücücüoğlu (Aalen/DE), V. Knoblauch (Aalen/DE), P. Kaya (Aalen/DE)

- P 154 Aging in Real Time: *In-situ* Solid-State NMR studies of Sodium-Ion Battery Stability**
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■■■ SOLID-STATE BATTERIES VII



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