Stefano Passerini

List of Articles by Year
in descending order

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849	56,124	118	228
PR articles	PR citations	PR h-index	g-index

598 (PR h-index); 1107 (g-index)

894	65444	126	43396
documents	doc citations	h-index	citing authors

647 (h-index)

#	Article	IF	Citations
1	Achieving stable lithium metal anode via constructing lithiophilicity gradient and regulating Li3N-rich SEI. Nano Energy, 2025, 133, 110439.	16.2	46
2	Efficient and Effective Synthesis of CaV6O16Â·2.7H2O as Highâ€Performance Cathode Material for Aqueous Zinc Metal Batteries. Advanced Energy Materials, 2025, 15, .	22.5	19
3	A Comparative Study of the Oxygen Reduction Reaction on Pt and Ag in Alkaline Media. ChemElectroChem, 2025, 12, .	2.9	7
4	Ternary electrolyte additive mixture for 5V lithium-ion battery cells. Journal of Power Sources, 2025, 630, 236073.	7.9	6
5	Redoxâ€Mediated Pyrene Electrolytes for Enhancing the Reversibility of Vertically Arranged Tin Electrodes in Seawater Batteries. Small, 2025, 21, .	11.5	0
6	Development of PFAS-Free Locally Concentrated Ionic Liquid Electrolytes for High-Energy Lithium and Aluminum Metal Batteries. Accounts of Chemical Research, 2025, 58, 354-365.	17.0	18
7	Enhanced Cathodeâ€Electrolyte Interphase for Prolonged Cycling Stability of Aluminumâ€Selenium Batteries Using Locally Concentrated Ionic Liquid Electrolytes. Angewandte Chemie - International Edition, 2025, 64, .	14.4	1
8	Enhanced Cathodeâ€Electrolyte Interphase for Prolonged Cycling Stability of Aluminumâ€Selenium Batteries Using Locally Concentrated Ionic Liquid Electrolytes. Angewandte Chemie, 2025, 137, .	1.4	0
9	A comprehensive understanding on the anionic redox chemistry of high-voltage cathode materials for high-energy-density lithium-ion batteries. Chemical Society Reviews, 2025, 54, 3441-3474.	37.7	37
10	Operando multi-edge XAS to reveal the effect of Co in Li- and Mn-rich NMC Li-ion cathodes. Materials Today Energy, 2025, 50, 101853.	5.1	5
11	Anode-free sodium metal batteries: optimisation of electrolytes and interphases. Energy and Environmental Science, 2025, 18, 3887-3916.	30.8	35
12	Hydroxyethyl Cellulose as Waterâ€Soluble Coâ€Binder for High Mass Loading LiNi _{0.5} Mn _{1.5} O ₄	6.2	0
13	Robust interphase derived from a dual-cation ionic liquid electrolyte enabling exceptional stability for nickel-rich layered cathodes. Energy and Environmental Science, 2025, 18, 4740-4752.	30.8	6
14	Electrolyte Chemistry Development for Sodiumâ€Based Batteries: A Blueprint from Lithium or a Step Toward Originality?. Angewandte Chemie, 2025, 137, .	1.4	0
15	Electrolyte Chemistry Development for Sodiumâ€Based Batteries: A Blueprint from Lithium or a Step Toward Originality?. Angewandte Chemie - International Edition, 2025, 64, .	14.4	12
16	Understanding the Component-Driven Influence on the Electrochemical Properties in Single-Ion Polymer Electrolytes for Sodium-Based Batteries. ACS Applied Polymer Materials, 2025, 7, 4895-4907.	4.6	1
17	Weakly Solvating Electrolytes for Lithium and Postâ€Lithium Rechargeable Batteries: Progress and Outlook. Advanced Energy Materials, 2025, 15, .	22.5	21
18	High-Entropy Approach vs. Traditional Doping Strategy for Layered Oxide Cathodes in Alkali-Metal-Ion Batteries: A Comparative Study. Energy Storage Materials, 2025, 79, 104295.	18.1	23

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19	Comprehensive machine learning approaches for modelling the state of charge of lithium-ion batteries. Journal of Power Sources, 2025, 646, 236929.	7.9	4
20	Wide Temperature 500ÂWh kg âˆ’1 Lithium Metal Pouch Cells. Angewandte Chemie - International Edition, 2025, 64, .	14.4	11
21	Wide Temperature 500ÂWh kg âˆ’1 Lithium Metal Pouch Cells. Angewandte Chemie, 2025, 137, .	1.4	1
22	Full life cycle assessment of an industrial leadâ€"acid battery based on primary data. Energy Advances, 2025, 4, 910-929.	4.0	2
23	Enhancement of Lithium-Ion Conductivity in Liquid Crystalline Block Copolymer Electrolyte by Electric Field Alignment. Journal of the American Chemical Society, 2025, 147, 20347-20358.	15.0	4
24	Development of advanced anodes for solid-state lithium batteries. Materials Today, 2025, 88, 1005-1027.	14.0	20
25	Constructing vertical Li+ transport â€œHighwaysâ€•and interface regulation of composite solid electrolytes for ultra-stable lithium metal batteries. Energy Storage Materials, 2025, 81, 104492.	18.1	6
26	Electrolyte Strategies Facilitating Anionâ€Derived Solidâ€Electrolyte Interphases for Aqueous Zincâ€"Metal Batteries. Small Methods, 2024, 8, .	9.0	20
27	High-capacity Li4Ti5O12-C thick ceramic electrodes manufactured by powder injection moulding. Journal of the European Ceramic Society, 2024, 44, 978-985.	6.2	8
28	Practical Cell Design for PTMA-Based Organic Batteries: an Experimental and Modeling Study. ACS Applied Materials & Interfaces, 2024, 16, 48757-48770.	8.0	11
29	Investigation of the Stability of the Poly(ethylene oxide) | LiNi1â€xâ€y CoxMnyO2 Interface in Solidâ€State Batteries. Advanced Materials Interfaces, 2024, 11, .	4.0	7
30	Reinforcing the Electrode/Electrolyte Interphases of Lithium Metal Batteries Employing Locally Concentrated Ionic Liquid Electrolytes. Advanced Materials, 2024, 36, .	24.5	39
31	Layered Oxide Material as a Highly Stable Naâ€ion Source and Sink for Investigation of Sodiumâ€ion Battery Materials. ChemElectroChem, 2024, 11, .	2.9	3
32	Precipitation Stripping of V(V) as a Novel Approach for the Preparation of Two-Dimensional Transition Metal Vanadates. Nanomaterials, 2024, 14, 38.	4.0	0
33	Solid Electrolyte Interphase Formation on Anatase TiO2 Nanoparticle-Based Electrodes for Sodium-Ion Batteries. ACS Applied Energy Materials, 2024, 7, 125-132.	5.4	4
34	Locally Concentrated Ionic Liquid Electrolytes for Wideâ€Temperatureâ€Range Aluminumâ€Sulfur Batteries. Angewandte Chemie, 2024, 136, .	1.4	7
35	Locally Concentrated Ionic Liquid Electrolytes for Wideâ€Temperatureâ€Range Aluminumâ€Sulfur Batteries. Angewandte Chemie - International Edition, 2024, 63, .	14.4	25
36	Fluorinated electrolyte formulations design enabling high-voltage and long-life lithium metal batteries. Nano Energy, 2024, 123, 109362.	16.2	33

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37	Recycled graphite for more sustainable lithiumâ€ion batteries. , 2024, 6, .		51
38	Polysulfide-mediated solvation shell reorganization for fast Li+ transfer probed by in-situ sum frequency generation spectroscopy. Energy Storage Materials, 2024, 67, 103289.	18.1	17
39	Locally Concentrated Deep Eutectic Liquids Electrolytes for Lowâ€Polarization Aluminum Metal Batteries. Advanced Materials, 2024, 36, .	24.5	31
40	3D Host Design Strategies Guiding â€œBottomâ€"Upâ€•Lithium Deposition: A Review. Advanced Energy Materials, 2024, 14, .	22.5	40
41	Alâ^'Air Batteries for Seasonal/Annual Energy Storage: Progress beyond Materials. Batteries and Supercaps, 2024, 7, .	4.3	8
42	Potential of Aluminum as a Metal Fuel for Supporting EU Longâ€Term Energy Storage Needs. Advanced Materials Technologies, 2024, 9, .	5.8	7
43	Ethylene Glycol Coâ€Solvent Enables Stable Aqueous Ammoniumâ€Ion Batteries with Diluted Electrolyte. Advanced Functional Materials, 2024, 34, .	17.0	12
44	Accelerating the Development of LLZO in Solidâ€State Batteries Toward Commercialization: A Comprehensive Review. Small, 2024, 20, .	11.5	38
45	Fast interfacial electrocatalytic desolvation enabling lowâ€temperature and longâ€cycleâ€life aqueous Zn batteries. InformaÄnÃ-MateriÃ¡ly, 2024, 6, .	20.8	34
46	Life cycle assessment of bio-based hard carbon for sodium-ion batteries across different production scales. Chemical Engineering Journal, 2024, 495, 153410.	12.0	19
47	PFAS-Free Locally Concentrated Ionic Liquid Electrolytes for Lithium Metal Batteries. ACS Energy Letters, 2024, 9, 3049-3057.	17.0	36
48	Superionicity by design: high proton conductivity in a fluorine-free protic ionic liquid. Journal of Materials Chemistry A, 2024, 12, 18412-18422.	9.3	1
49	Sodium 4-styrenesulfonyl(trifluoromethanesulfonyl)imide-based single-ion conducting polymer electrolyte incorporating molecular transporters for quasi-solid-state sodium batteries. Journal of Materials Chemistry A, 2024, 12, 20935-20946.	9.3	9
50	2024 roadmap for sustainable batteries. JPhys Energy, 2024, 6, 041502.	4.8	20
51	Is Cobalt in Liâ€Rich Layered Oxides for Liâ€Ion Batteries Necessary?. ChemElectroChem, 2024, 11, .	2.9	2
52	Unravelling the impact of electroconductivity on metal plating position in redox-active electrolytes. Energy Storage Materials, 2024, 72, 103743.	18.1	2
53	Operando pH measurements revealing the promoted Zn2+ intercalation kinetics of pre-intercalated V2O5 cathode in aqueous zinc metal batteries. Journal of Power Sources, 2024, 623, 235401.	7.9	9
54	Metalâ€Free Polymerâ€Based Current Collector for High Energy Density Lithiumâ€Metal Batteries. Small, 2024, 20, .	11.5	5

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55	Advanced Single-Ion Conducting Block Copolymer Electrolyte for Safer and Less Costly Lithiumâ€“Metal Batteries. ACS Energy Letters, 2024, 9, 5279-5287.	17.0	9
56	Optimization Strategies of Hybrid Lithium Titanate Oxide/Carbon Anodes for Lithium-Ion Batteries. Nanomaterials, 2024, 14, 1799.	4.0	6
57	Minimizing solvated water via synergistic effect of salt anion and cosolvent enables stable Zn metal anodes in low-cost acetate electrolyte. Chemical Engineering Journal, 2024, 502, 157842.	12.0	5
58	From structure to electrochemistry: the influence of transition metal ordering on Na+/vacancy orderings in P2-type NaxMO2 cathode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2024, 13, 540-560.	9.3	16
59	Advanced Balancing of High-Energy Lithium Ion Cells Comprising Lithium-Rich Layered Oxide and a-Si/CuSi Nanowire Using a Cathode Pre-Lithiation Additive. Journal of the Electrochemical Society, 2024, 171, 120525.	3.1	2
60	Bioâ€Wasteâ€Derived Hard Carbon Anodes Through a Sustainable and Costâ€Effective Synthesis Process for Sodiumâ€Ion Batteries. ChemSusChem, 2023, 16, .	6.2	36
61	Synthesis and Application of an Aromatic Sulfonate Sodium Salt for Aqueous Sodiumâ€Ion Battery Electrolytes. Energy Technology, 2023, 11, .	3.4	1
62	Molecular insight into nano-heterogeneity of localized high-concentration electrolyte: Correlation with lithium dynamics and solid-electrolyte interphase formation. Journal of Power Sources, 2023, 557, 232545.	7.9	19
63	Evaluation and Improvement of the Stability of Poly(ethylene oxide)â€based Solidâ€state Batteries with Highâ€Voltage Cathodes. Angewandte Chemie - International Edition, 2023, 62, .	14.4	75
64	Stable cycling of Si nanowire electrodes in fluorine-free cyano-based ionic liquid electrolytes enabled by vinylene carbonate as SEI-forming additive. Journal of Power Sources, 2023, 558, 232621.	7.9	11
65	Bilayer solid electrolyte enabling quasi-solid-state lithium-metal batteries. Journal of Power Sources, 2023, 557, 232514.	7.9	18
66	Single-Ion Conducting Multi-block Copolymer Electrolyte for Lithium-Metal Batteries with High Mass Loading NCM811 Cathodes. ACS Energy Letters, 2023, 8, 1114-1121.	17.0	41
67	Nanotwinned Copper Foil for â€œZero Excessâ€• Lithiumâ€“Metal Batteries. ACS Applied Energy Materials, 2023, 6, 2140-2150.	5.4	17
68	Influence of Vacancies in Manganese Hexacyanoferrate Cathode for Organic Naâ€Ion Batteries: A Structural Perspective. ChemSusChem, 2023, 16, .	6.2	27
69	Stepwise optimization of single-ion conducting polymer electrolytes for high-performance lithium-metal batteries. Journal of Energy Chemistry, 2023, 80, 174-181.	14.2	30
70	Development of a high-energy electrical double-layer capacitor demonstrator with 5000ÂF in an industrial cell format. Journal of Power Sources, 2023, 571, 233016.	7.9	27
71	Lithium Batteries and the Solid Electrolyte Interphase (SEI)â€"Progress and Outlook. Advanced Energy Materials, 2023, 13, .	22.5	586
72	A unique polymer-inorganic cathode-electrolyte-interphase (CEI) boosts high-performance Na3V2(PO4)2F3 batteries in ether electrolytes. Journal of Power Sources, 2023, 560, 232630.	7.9	17

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73	Layered Oxide Cathodes for Sodium-Ion Batteries: Storage Mechanism, Electrochemistry, and Techno-economics. Accounts of Chemical Research, 2023, 56, 284-296.	17.0	350
74	Locally Concentrated Ionic Liquid Electrolytes for Lithiumâ€Metal Batteries. Angewandte Chemie, 2023, 135, .	1.4	4
75	Locally Concentrated Ionic Liquid Electrolytes for Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2023, 62, .	14.4	72
76	Modified Solid Electrolyte Interphases with Alkali Chloride Additives for Aluminumâ€"Sulfur Batteries with Enhanced Cyclability. Advanced Functional Materials, 2023, 33, .	17.0	26
77	Enabling Multi-electron Reactions in NASICON Positive Electrodes for Aqueous Zinc-Metal Batteries. ACS Energy Letters, 2023, 8, 1671-1679.	17.0	51
78	Bisphenol-Derived Single-Ion Conducting Multiblock Copolymers as Lithium Battery Electrolytes: Impact of the Bisphenol Building Block. Macromolecules, 2023, 56, 2505-2514.	5.0	7
79	Competitive Solvation-Induced Interphases Enable Highly Reversible Zn Anodes. ACS Energy Letters, 2023, 8, 2086-2096.	17.0	134
80	Artificial Interphase Design Employing Inorganicâ€"Organic Components for High-Energy Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2023, 15, 20987-20997.	8.0	11
81	Insights into the Lithium Nucleation and Plating/Stripping Behavior in Ionic Liquid-Based Electrolytes. ACS Applied Materials & Interfaces, 2023, 15, 25462-25472.	8.0	16
82	Locally Concentrated Ionic Liquid Electrolytes Enabling Lowâ€Temperature Lithium Metal Batteries. Angewandte Chemie - International Edition, 2023, 62, .	14.4	43
83	Locally Concentrated Ionic Liquid Electrolytes Enabling Lowâ€Temperature Lithium Metal Batteries. Angewandte Chemie, 2023, 135, .	1.4	7
84	Liquid crystals as additives in solid polymer electrolytes for lithium metal batteries. MRS Advances, 2023, 8, 797-802.	0.9	3
85	Mechanistic understanding of microstructure formation during synthesis of metal oxide/carbon nanocomposites. Journal of Materials Chemistry A, 2023, 11, 17125-17137.	9.3	6
86	Interfacial â€œSingleâ€Atomâ€inâ€Defectsâ€• Catalysts Accelerating Li+ Desolvation Kinetics for Longâ€Lifespan Lithiumâ€Metal Batteries. Advanced Materials, 2023, 35, .	24.5	98
87	Beneficial impact of lithium bis(oxalato)borate as electrolyte additive for highâ€voltage nickelâ€rich lithiumâ€battery cathodes. InformaÄnÃ-MateriÃ¡ly, 2023, 5, .	20.8	44
88	Addressing the voltage and energy fading of Al-air batteries to enable seasonal/annual energy storage. Journal of Power Sources, 2023, 574, 233172.	7.9	15
89	Ultrathin single-ion conducting polymer enabling a stable Li|Li1.3Al0.3Ti1.7(PO4)3 interface. Chemical Engineering Journal, 2023, 467, 143530.	12.0	13
90	Solventâ€free Ternary Polymer Electrolytes with High Ionic Conductivity for Stable Sodiumâ€based Batteries at Room Temperature. Batteries and Supercaps, 2023, 6, .	4.3	6

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91	Localised degradation within sulfide-based all-solid-state electrodes visualised by Raman mapping. Chemical Communications, 2023, 59, 7982-7985.	3.4	6
92	A modified Doyle-Fuller-Newman model enables the macroscale physical simulation of dual-ion batteries. Journal of Power Sources, 2023, 580, 233429.	7.9	8
93	Singleâ€Ion Conducting Polymer Electrolyte for Superior Sodiumâ€Metal Batteries. Angewandte Chemie, 2023, 135, .	1.4	3
94	Singleâ€Ion Conducting Polymer Electrolyte for Superior Sodiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2023, 62, .	14.4	33
95	A comprehensive review of separator membranes in lithium-ion batteries. Renewable and Sustainable Energy Reviews, 2023, 187, 113726.	16.5	154
96	Assessing nâ€type organic materials for lithium batteries: A technoâ€economic review. InformaÄnÃ-MateriÃ¡ly, 2023, 5, .	20.8	29
97	Origin of Aging of a P2-NaxMn3/4Ni1/4O2 Cathode Active Material for Sodium-Ion Batteries. Chemistry of Materials, 2023, 35, 8065-8080.	6.7	25
98	Na-seawater battery technology integration with renewable energies: The case study of Sardinia Island. Renewable and Sustainable Energy Reviews, 2023, 187, 113701.	16.5	8
99	Mapping Heterogeneity of Pristine and Aged Liâ€and Naâ€Mnhcf Cathode by Synchrotronâ€Based Energyâ€Dependent Full Field Transmission Xâ€ray Microscopy. Small Methods, 2023, 7, .	9.0	6
100	Lithium Sulfide â€"Carbon Composite Use as Positive Electrode in Post Lithium Ion Batteries Technology. ECS Meeting Abstracts, 2023, MA2023-01, 578-578.	0.0	0
101	Adaptive Multiâ€Site Gradient Adsorption of Siloxaneâ€Based Protective Layers Enable High Performance Lithiumâ€Metal Batteries. Advanced Energy Materials, 2023, 13, .	22.5	38
102	The role of ionic liquids in resolving the interfacial chemistry for (quasi-) solid-state batteries. Energy Storage Materials, 2023, 63, 103062.	18.1	17
103	Single-ion conducting interlayers for improved lithium metal plating. Energy Storage Materials, 2023, 63, 103029.	18.1	12
104	A Comparative Study of Mixed Phosphateâ€Pyrophosphate Materials for Aqueous and Nonâ€Aqueous Naâ€ion Batteries. ChemistrySelect, 2023, 8, .	1.7	5
105	Ionic liquids and their derivatives for lithium batteries: role, design strategy, and perspectives. , 2023, 3, 300049.		32
106	Three-Dimensional Nitrogen-Doped Carbonaceous Networks Anchored with Cobalt as Separator Modification Layers for Low-Polarization and Long-Lifespan Aluminumâ€"Sulfur Batteries. ACS Nano, 2023, 17, 25234-25242.	15.3	20
107	Nanocrystalline cellulose reinforced poly(ethylene oxide) electrolytes for lithium-metal batteries with excellent cycling stability. Frontiers in Energy Research, 2023, 11, .	2.0	5
108	Ensuring accurate Key Performance Indicators for Battery applications by implementing consistent Reporting Methodologies. Transportation Research Procedia, 2023, 72, 3625-3632.	0.7	6

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109	Locally Concentrated Ionic Liquid Electrolytes for Lithium/Sulfurized Polyacrylonitrile Batteries. ECS Meeting Abstracts, 2023, MA2023-02, 365-365.	0.0	2
110	High-Li+-fraction ether-side-chain pyrrolidiniumâ€"asymmetric imide ionic liquid electrolyte for high-energy-density Si//Ni-rich layered oxide Li-ion batteries. Chemical Engineering Journal, 2022, 430, 132693.	12.0	28
111	Block copolymers as (single-ion conducting) lithium battery electrolytes. Nanotechnology, 2022, 33, 062002.	2.6	21
112	Effect of organic cations in locally concentrated ionic liquid electrolytes on the electrochemical performance of lithium metal batteries. Energy Storage Materials, 2022, 44, 370-378.	18.1	64
113	Covalency Competition Induced Active Octahedral Sites in Spinel Cobaltites for Enhanced Pseudocapacitive Charge Storage. Advanced Energy Materials, 2022, 12, .	22.5	78
114	Structure, Composition, Transport Properties, and Electrochemical Performance of the Electrodeâ€Electrolyte Interphase in Nonâ€Aqueous Naâ€Ion Batteries. Advanced Materials Interfaces, 2022, 9, .	4.0	50
115	Photoâ€Crossâ€Linked Singleâ€Ion Conducting Polymer Electrolyte for Lithiumâ€Metal Batteries. Macromolecular Rapid Communications, 2022, 43, .	4.1	23
116	Hybrid Energy Storage and Hydrogen Supply Based on Aluminumâ€"a Multiservice Case for Electric Mobility and Energy Storage Services. Advanced Materials Technologies, 2022, 7, .	5.8	16
117	Diagnosis tools for humidity-born surface contaminants on Li[Ni0.8Mn0.1Co0.1]O2 cathode materials for lithium batteries. Journal of Power Sources, 2022, 525, 231111.	7.9	20
118	The Emergence of Aqueous Ammoniumâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	1.4	31
119	Advances and issues in developing intercalation graphite cathodes for aqueous batteries. Materials Today, 2022, 53, 162-172.	14.0	21
120	The Emergence of Aqueous Ammoniumâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	14.4	137
121	Stabilizing the Li1.3Al0.3Ti1.7(PO4)3 | Li Interface for High Efficiency and Long Lifespan Quasiâ€Solidâ€State Lithium Metal Batteries. ChemSusChem, 2022, 15, .	6.2	14
122	Polysiloxaneâ€Based Singleâ€Ion Conducting Polymer Blend Electrolyte Comprising Smallâ€Molecule Organic Carbonates for Highâ€Energy and Highâ€Power Lithiumâ€Metal Batteries. Advanced Energy Materials, 2022, 12, .	22.5	104
123	Influence of the Current Density on the Interfacial Reactivity of Layered Oxide Cathodes for Sodiumâ€Ion Batteries. Energy Technology, 2022, 10, .	3.4	13
124	Synergistic Effect of Co and Mn Co-Doping on SnO2 Lithium-Ion Anodes. Inorganics, 2022, 10, 46.	2.7	8
125	Molecular Insight into Microstructural and Dynamical Heterogeneities in Magnesium Ionic Liquid Electrolytes. Journal of Physical Chemistry Letters, 2022, 13, 105-111.	4.2	17
126	Elucidating the Role of Microstructure in Thiophosphate Electrolytes â€" a Combined Experimental and Theoretical Study of Î²â€Li3PS4. Advanced Science, 2022, 9, .	12.6	16

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127	Anode-less seawater batteries with a Na-ion conducting solid-polymer electrolyte for power to metal and metal to power energy storage. Energy and Environmental Science, 2022, 15, 2610-2618.	30.8	37
128	Electrolyte Measures to Prevent Polysulfide Shuttle in Lithiumâ€Sulfur Batteries. Batteries and Supercaps, 2022, 5, .	4.3	67
129	Metalâ€"Organic Framework Derived Copper Chalcogenidesâ€Carbon Composites as Highâ€Rate and Stable Storage Materials for Na Ions. Advanced Sustainable Systems, 2022, 6, .	5.8	23
130	Investigation of a Fluorine-Free Phosphonium-Based Ionic Liquid Electrolyte and Its Compatibility with Lithium Metal. ACS Applied Materials & Interfaces, 2022, 14, 20888-20895.	8.0	10
131	Tuning Polybenzimidazole Membrane by Immobilizing a Novel Ionic Liquid with Superior Oxygen Reduction Reaction Kinetics. Chemistry of Materials, 2022, 34, 4298-4310.	6.7	3
132	Quantification of charge compensation in lithium- and manganese-rich Li-ion cathode materials by x-ray spectroscopies. Materials Today Physics, 2022, 24, 100687.	6.1	3
133	Layered P2-NaxMn3/4Ni1/4O2 Cathode Materials For Sodium-Ion Batteries: Synthesis, Electrochemistry and Influence of Ambient Storage. Frontiers in Energy Research, 2022, 10, .	2.0	24
134	Difluorobenzeneâ€Based Locally Concentrated Ionic Liquid Electrolyte Enabling Stable Cycling of Lithium Metal Batteries with Nickelâ€Rich Cathode. Advanced Energy Materials, 2022, 12, .	22.5	72
135	Concentrated Electrolytes Enabling Stable Aqueous Ammoniumâ€ion Batteries. Advanced Materials, 2022, 34, .	24.5	107
136	Enhancing the Interfacial Stability of Highâ€Energy Si/Graphite||LiNi0.88Co0.09Mn0.03O2 Batteries Employing a Dualâ€Anion Ionic Liquidâ€based Electrolyte. Batteries and Supercaps, 2022, 5, .	4.3	5
137	Aluminum Steam Oxidation in the Framework of Longâ€Term Energy Storage: Experimental Analysis of the Reaction Parameters Effect on Metal Conversion Rate. Energy Technology, 2022, 10, .	3.4	14
138	Evaluation of Counter and Reference Electrodes for the Investigation of Ca Battery Materials. ECS Meeting Abstracts, 2022, MA2022-01, 63-63.	0.0	0
139	Reinforcing the Li|Li1.3Al0.3Ti1.7(PO4)3 Interfacial Stability By an Ultrathin Multifunctional Polysiloxane-Based Single-Ion Conducting Polymer. ECS Meeting Abstracts, 2022, MA2022-01, 206-206.	0.0	0
140	Advanced Balancing of Next-Generation Lithium-Ion Batteries: Prelithiation of a-Silicon Nanowires Using Excess Lithium Positive Electrodes. ECS Meeting Abstracts, 2022, MA2022-01, 2434-2434.	0.0	1
141	Influence of Polymer Backbone Fluorination on the Electrochemical Behavior of Single-Ion Conducting Multiblock Copolymer Electrolytes. ACS Macro Letters, 2022, 11, 982-990.	5.0	16
142	Recycled Graphite for Sustainable Lithium-Ion Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 598-598.	0.0	2
143	Polysiloxane-Based Single-Ion Conducting Polymer Electrolyte for High-Performance Liâ€–NMC811 Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 326-326.	0.0	1
144	Zincâ€Ion Hybrid Supercapacitors Employing Acetateâ€Based Waterâ€inâ€Salt Electrolytes. Small, 2022, 18, .	11.5	48

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145	Investigating the particle size effect on the electrochemical performance and degradation of cobalt-free lithium-rich layered oxide Li1.2Ni0.2Mn0.6O2. Electrochimica Acta, 2022, 430, 141047.	5.3	21
146	Insights into the Electrochemical Performance of 1.8 Ah Pouch and 18650 Cylindrical NMC:LFP|Si:C Blend Li-ion Cells. Batteries, 2022, 8, 97.	4.4	3
147	Tinâ€"Graphite Composite as a High-Capacity Anode for All-Solid-State Li-Ion Batteries. Journal of Physical Chemistry C, 2022, 126, 13043-13052.	3.1	11
148	Novel sulfur-doped single-ion conducting multi-block copolymer electrolyte. Frontiers in Chemistry, 2022, 10, .	3.5	3
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150	Implications of Anion Structure on Physicochemical Properties of DBU-Based Protic Ionic Liquids. Journal of Physical Chemistry B, 2022, 126, 7006-7014.	2.7	10
151	Sodiophilic Current Collectors Based on MOFâ€Derived Nanocomposites for Anodeâ€Less Naâ€Metal Batteries. Advanced Energy Materials, 2022, 12, .	22.5	102
152	Enabling Highâ€Stability of Aqueousâ€Processed Nickelâ€Rich Positive Electrodes in Lithium Metal Batteries. Small, 2022, 18, .	11.5	9
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