Stefano Passerini

List of Publications by Year in descending order

747 papers	52,191 citations	813 118 h-index	3034 188 g-index
792 all docs	792 docs citations	792 times ranked	31228 citing authors

#	Article	IF	Citations
1	Single-ion conducting polymer electrolyte for Li||LiNi0.6Mn0.2Co0.2O2 batteriesâ€"impact of the anodic cutoff voltage and ambient temperature. Journal of Solid State Electrochemistry, 2022, 26, 97-102.	2.5	10
2	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.	12.7	15
3	Silicon anode systems for lithium-ion batteries. , 2022, , 3-46.		2
4	Block copolymers as (single-ion conducting) lithium battery electrolytes. Nanotechnology, 2022, 33, 062002.	2.6	11
5	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.	18.0	31
6	Covalency Competition Induced Active Octahedral Sites in Spinel Cobaltites for Enhanced Pseudocapacitive Charge Storage. Advanced Energy Materials, 2022, 12, 2102053.	19.5	41
7	Structure, Composition, Transport Properties, and Electrochemical Performance of the Electrodeâ€Electrolyte Interphase in Nonâ€Aqueous Naâ€Ion Batteries. Advanced Materials Interfaces, 2022, 9, .	3.7	27
8	Photoâ€Crossâ€Linked Singleâ€Ion Conducting Polymer Electrolyte for Lithiumâ€Metal Batteries. Macromolecular Rapid Communications, 2022, 43, e2100820.	3.9	12
9	Hybrid Energy Storage and Hydrogen Supply Based on Aluminumâ€"a Multiservice Case for Electric Mobility and Energy Storage Services. Advanced Materials Technologies, 2022, 7, 2101400.	5.8	5
10	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.	7.8	7
11	The Emergence of Aqueous Ammoniumâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	2.0	16
12	Advances and issues in developing intercalation graphite cathodes for aqueous batteries. Materials Today, 2022, 53, 162-172.	14.2	7
13	The Emergence of Aqueous Ammoniumâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	65
14	Stabilizing the Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃|Li Interface for High Efficiency and Long Lifespan Quasiâ€Solidâ€State Lithium Metal Batteries. ChemSusChem, 2022, 15, .	6.8	11
15	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, .	19.5	53
16	Influence of the Current Density on the Interfacial Reactivity of Layered Oxide Cathodes for Sodiumâ€Ion Batteries. Energy Technology, 2022, 10, .	3.8	3
17	Synergistic Effect of Co and Mn Co-Doping on SnO2 Lithium-Ion Anodes. Inorganics, 2022, 10, 46.	2.7	5
18	Molecular Insight into Microstructural and Dynamical Heterogeneities in Magnesium Ionic Liquid Electrolytes. Journal of Physical Chemistry Letters, 2022, 13, 105-111.	4.6	8

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19	Elucidating the Role of Microstructure in Thiophosphate Electrolytes â€“ a Combined Experimental and Theoretical Study of Î²â€²Li₃PS₄. Advanced Science, 2022, 9, e2105234.	11.2	9
20	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	20
21	Electrolyte Measures to Prevent Polysulfide Shuttle in Lithiumâ€Sulfur Batteries. Batteries and Supercaps, 2022, 5, .	4.7	20
22	Metalâ€“Organic Framework Derived Copper Chalcogenidesâ€Carbon Composites as Highâ€Rate and Stable Storage Materials for Na Ions. Advanced Sustainable Systems, 2022, 6, .	5.3	14
23	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	4
24	Tuning Polybenzimidazole Membrane by Immobilizing a Novel Ionic Liquid with Superior Oxygen Reduction Reaction Kinetics. Chemistry of Materials, 2022, 34, 4298-4310.	6.7	0
25	Guidelines for Air-Stable Lithium/Sodium Layered Oxide Cathodes. , 2022, 4, 1074-1086.		17
26	Quantification of charge compensation in lithium- and manganese-rich Li-ion cathode materials by x-ray spectroscopies. Materials Today Physics, 2022, 24, 100687.	6.0	2
27	Layered P2-NaxMn3/4Ni1/4O2 Cathode Materials For Sodium-Ion Batteries: Synthesis, Electrochemistry and Influence of Ambient Storage. Frontiers in Energy Research, 2022, 10, .	2.3	9
28	Difluorobenzeneâ€Based Locally Concentrated Ionic Liquid Electrolyte Enabling Stable Cycling of Lithium Metal Batteries with Nickelâ€Rich Cathode. Advanced Energy Materials, 2022, 12, .	19.5	31
29	Concentrated Electrolytes Enabling Stable Aqueous Ammoniumâ€Ion Batteries. Advanced Materials, 2022, 34, .	21.0	40
30	Enhancing the Interfacial Stability of Highâ€Energy Si/Graphite||LiNi_{0.88}Co_{0.09}Mn_{0.03}O₂ Batteries Employing a Dualâ€Anion Ionic Liquidâ€based Electrolyte. Batteries and Supercaps, 2022, 5, .	4.7	3
31	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, .	3.8	0
32	Evaluation of Counter and Reference Electrodes for the Investigation of Ca Battery Materials. ECS Meeting Abstracts, 2022, MA2022-01, 63-63.	0.0	0
33	Reinforcing the Li|Li_{1.3}Al_{0.3}Ti_{1.7}(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
34	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	0
35	Influence of Polymer Backbone Fluorination on the Electrochemical Behavior of Single-Ion Conducting Multiblock Copolymer Electrolytes. ACS Macro Letters, 2022, 11, 982-990.	4.8	5
36	Recycled Graphite for Sustainable Lithium-Ion Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 598-598.	0.0	2

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37	Polysiloxane-Based Single-Ion Conducting Polymer Electrolyte for High-Performance Liâ€–NMC₈₁₁ Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 326-326.	0.0	0
38	Zincâ€Ion Hybrid Supercapacitors Employing Acetateâ€Based Waterâ€inâ€Salt Electrolytes. Small, 2022, 18, .	10.0	22
39	Challenges and Strategies for Highâ€Energy Aqueous Electrolyte Rechargeable Batteries. Angewandte Chemie - International Edition, 2021, 60, 598-616.	13.8	272
40	WÃssrige Hochleistungsbatterien: Herausforderungen und Strategien. Angewandte Chemie, 2021, 133, 608-626.	2.0	14
41	Synergistic electrolyte additives for enhancing the performance of high-voltage lithium-ion cathodes in half-cells and full-cells. Journal of Power Sources, 2021, 482, 228975.	7.8	29
42	Green and low-cost acetate-based electrolytes for the highly reversible zinc anode. Journal of Power Sources, 2021, 485, 229329.	7.8	37
43	Nonfluorinated Ionic Liquid Electrolytes for Lithium Metal Batteries: Ionic Conduction, Electrochemistry, and Interphase Formation. Advanced Energy Materials, 2021, 11, 2003521.	19.5	37
44	Ionic Liquid in Li Salt Electrolyte: Modifying the Li + Transport Mechanism by Coordination to an Asymmetric Anion. Advanced Energy and Sustainability Research, 2021, 2, 2000078.	5.8	27
45	The unseen evidence of Reduced Ionicity: The elephant in (the) room temperature ionic liquids. Journal of Molecular Liquids, 2021, 324, 115069.	4.9	27
46	Tragacanth Gum as Green Binder for Sustainable Waterâ€Processable Electrochemical Capacitor. ChemSusChem, 2021, 14, 356-362.	6.8	18
47	Sodium Cyclopentadienide as a New Type of Electrolyte for Sodium Batteries. ChemElectroChem, 2021, 8, 365-369.	3.4	1
48	Tinâ€Containing Graphite for Sodiumâ€Ion Batteries and Hybrid Capacitors. Batteries and Supercaps, 2021, 4, 173-182.	4.7	27
49	ZnOâ€Based Conversion/Alloying Negative Electrodes for Lithiumâ€Ion Batteries: Impact of Mixing Intimacy. Energy Technology, 2021, 9, 2001084.	3.8	7
50	Assessment and progress of polyanionic cathodes in aqueous sodium batteries. Energy and Environmental Science, 2021, 14, 5788-5800.	30.8	39
51	Impact of the Transition Metal Dopant in Zinc Oxide Lithiumâ€Ion Anodes on the Solid Electrolyte Interphase Formation. Small Methods, 2021, 5, e2001021.	8.6	17
52	Local Interactions Governing the Performances of Lithium- and Manganese-Rich Cathodes. Journal of Physical Chemistry Letters, 2021, 12, 1195-1201.	4.6	5
53	Strategies towards enabling lithium metal in batteries: interphases and electrodes. Energy and Environmental Science, 2021, 14, 5289-5314.	30.8	156
54	Effect of the Secondary Rutile Phase in Singleâ€Step Synthesized Carbonâ€Coated Anatase TiO₂ Nanoparticles as Lithiumâ€Ion Anode Material. Energy Technology, 2021, 9, 2001067.	3.8	7

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55	An Alternative Charge-Storage Mechanism for High-Performance Sodium-Ion and Potassium-Ion Anodes. ACS Energy Letters, 2021, 6, 915-924.	17.4	21
56	Embedding Heterostructured Î±â€MnS/MnO Nanoparticles in Sâ€Doped Carbonaceous Porous Framework as Highâ€Performance Anode for Lithiumâ€Ion Batteries. ChemElectroChem, 2021, 8, 918-927.	3.4	21
57	Acidic Ionic Liquids Enabling Intermediate Temperature Operation Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 8370-8382.	8.0	17
58	Effect of Applying a Carbon Coating on the Crystal Structure and De-/Lithiation Mechanism of Mn-Doped ZnO Lithium-Ion Anodes. Journal of the Electrochemical Society, 2021, 168, 030503.	2.9	8
59	Assessing the Reactivity of Hard Carbon Anodes: Linking Material Properties with Electrochemical Response Upon Sodiumâ€and Lithiumâ€Ion Storage. Batteries and Supercaps, 2021, 4, 960-977.	4.7	23
60	Working Principle of an Ionic Liquid Interlayer During Pressureless Lithium Stripping on Li_{6.25}Al_{0.25}La₃Zr₂O₁₂ (LLZO) Garnetâ€Type Solid Electrolyte. Batteries and Supercaps, 2021, 4, 1145-1155.	4.7	23
61	Soft X-ray Transmission Microscopy on Lithium-Rich Layered-Oxide Cathode Materials. Applied Sciences (Switzerland), 2021, 11, 2791.	2.5	6
62	Impact of Crystal Density on the Electrochemical Behavior of Lithium-Ion Anode Materials: Exemplary Investigation of (Fe-Doped) GeO₂. Journal of Physical Chemistry C, 2021, 125, 8947-8958.	3.1	5
63	Characterization of Ion Association and Solvation in NaPF6 Carbonate Electrolytes. ECS Meeting Abstracts, 2021, MA2021-01, 462-462.	0.0	0
64	Transport studies of NaPF6 carbonate solvents-based sodium ion electrolytes. Electrochimica Acta, 2021, 377, 138062.	5.2	18
65	Bulk XAS and Xes Spectroscopy Accessing the Origin of Lithium- and Manganese-Rich Cathodes Performances. ECS Meeting Abstracts, 2021, MA2021-01, 2046-2046.	0.0	0
66	Isovalent vs. aliovalent transition metal doping of zinc oxide lithium-ion battery anodes â€" in-depth investigation by ex situ and operando X-ray absorption spectroscopy. Materials Today Chemistry, 2021, 20, 100478.	3.5	10
67	Highly Stable Quasiâ€Solidâ€State Lithium Metal Batteries: Reinforced Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃/Li Interface by a Protection Interlayer. Advanced Energy Materials, 2021, 11, 2101339.	19.5	62
68	Reversible Copper Sulfide Conversion in Nonflammable Trimethyl Phosphate Electrolytes for Safe Sodiumâ€Ion Batteries. Small Structures, 2021, 2, 2100035.	12.0	30
69	Enhanced Li⁺ Transport in Ionic Liquidâ€Based Electrolytes Aided by Fluorinated Ethers for Highly Efficient Lithium Metal Batteries with Improved Rate Capability. Small Methods, 2021, 5, e2100168.	8.6	34
70	Lithium Phosphonate Functionalized Polymer Coating for Highâ€Energy Li[Ni_{0.8}Co_{0.1}Mn_{0.1}]O₂ with Superior Performance at Ambient and Elevated Temperatures. Advanced Functional Materials, 2021, 31, 2105343.	14.9	42
71	Gravureâ€Printed Conversion/Alloying Anodes for Lithiumâ€Ion Batteries. Energy Technology, 2021, 9, 2100315.	3.8	10
72	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Znâ€Metal Battery. Advanced Energy Materials, 2021, 11, 2100962.	19.5	39

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73	Liquidâ€Assisted Mechanochemical Synthesis of Liâ€Doped Sulfide Glass Electrolyte. Energy Technology, 2021, 9, 2100385.	3.8	2
74	Ordered nano-structured mesoporous CMK-8 and other carbonaceous positive electrodes for rechargeable aluminum batteries. Chemical Engineering Journal, 2021, 417, 129131.	12.7	15
75	A Thin and Uniform Fluoride-Based Artificial Interphase for the Zinc Metal Anode Enabling Reversible Zn/MnO₂ Batteries. ACS Energy Letters, 2021, 6, 3063-3071.	17.4	134
76	The passivity of lithium electrodes in liquid electrolytes for secondary batteries. Nature Reviews Materials, 2021, 6, 1036-1052.	48.7	201
77	Dual-anion ionic liquid electrolyte enables stable Ni-rich cathodes in lithium-metal batteries. Joule, 2021, 5, 2177-2194.	24.0	83
78	Cycle parameter dependent degradation analysis in automotive lithium-ion cells. Journal of Power Sources, 2021, 506, 230227.	7.8	7
79	Redoxâ€Mediated Redâ€Phosphorous Semiâ€Liquid Anode Enabling Metalâ€Free Rechargeable Naâ€Seawater Batteries with High Energy Density. Advanced Energy Materials, 2021, 11, 2102061.	19.5	13
80	Production of high-energy Li-ion batteries comprising silicon-containing anodes and insertion-type cathodes. Nature Communications, 2021, 12, 5459.	12.8	190
81	A novel phosphonium ionic liquid electrolyte enabling high-voltage and high-energy positive electrode materials in lithium-metal batteries. Energy Storage Materials, 2021, 42, 826-835.	18.0	22
82	A mismatch electrical conductivity skeleton enables dendriteâ€“free and high stability lithium metal anode. Nano Energy, 2021, 89, 106421.	16.0	17
83	On the nanoscopic structural heterogeneity of liquid n-alkyl carboxylic acids. Physical Chemistry Chemical Physics, 2021, 23, 20282-20287.	2.8	6
84	Disclosing the hierarchical structure of ionic liquid mixtures by multiscale computational methods. , 2021, , 1-67.		1
85	Titanium Activation in Prussian Blue Based Electrodes for Na-ion Batteries: A Synthesis and Electrochemical Study. Batteries, 2021, 7, 5.	4.5	6
86	Monitoring the Sodiation Mechanism of Anatase TiO₂ Nanoparticle-Based Electrodes for Sodium-Ion Batteries by Operando XANES Measurements. ACS Applied Energy Materials, 2021, 4, 164-175.	5.1	9
87	Quasi-Solid-State Lithium Metal Batteries Using the LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂â€“Li_{1+x}Al_xTi<sub> Composite Positive Electrode. ACS Applied Materials & Interfaces, 2021, 13, 53810-53817.	8.0	9
88	Combined Role of Biaxial Strain and Nonstoichiometry for the Electronic, Magnetic, and Redox Properties of Lithiated Metal-Oxide Films: The LiMn₂O₄ Case. ACS Applied Materials & Interfaces, 2021, 13, 54610-54619.	8.0	1
89	(Invited) Reducing Capacity and Voltage Decay of Co-Free Positive Electrode Materials for Lithium Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 219-219.	0.0	0
90	Reactivity of LiNi0.5Mn1.5O4 in (Acidic) Water and Impact on the Electrochemical Performance. ECS Meeting Abstracts, 2021, MA2021-02, 353-353.	0.0	0

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91	Initial lithiation of carbon-coated zinc ferrite anodes studied by in-situ X-ray absorption spectroscopy. Radiation Physics and Chemistry, 2020, 175, 108468.	2.8	5
92	Highlighting the Reversible Manganese Electroactivity in Naâ€Rich Manganese Hexacyanoferrate Material for Liâ€•and Naâ€Ion Storage. Small Methods, 2020, 4, 1900529.	8.6	43
93	Structure rearrangements induced by lithium insertion in metal alloying oxide mixed spinel structure studied by x-ray absorption near-edge spectroscopy. Journal of Physics and Chemistry of Solids, 2020, 136, 109172.	4.0	14
94	Deriving Structureâ€Performance Relations of Chemically Modified Chitosan Binders for Sustainable Highâ€Voltage LiNi_{0.5}Mn_{1.5}O₄ Cathodes. Batteries and Supercaps, 2020, 3, 155-164.	4.7	18
95	Highly Reversible Sodiation of Tin in Glyme Electrolytes: The Critical Role of the Solid Electrolyte Interphase and Its Formation Mechanism. ACS Applied Materials & Interfaces, 2020, 12, 3697-3708.	8.0	37
96	Transition Metal Oxide Anodes for Electrochemical Energy Storage in Lithiumâ€•and Sodiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1902485.	19.5	511
97	Effect of Electrolyte Additives on the LiNi_{0.5}Mn_{0.3}Co_{0.2}O₂ Surface Film Formation with Lithium and Graphite Negative Electrodes. Advanced Materials Interfaces, 2020, 7, 1901500.	3.7	34
98	Good practice guide for papers on supercapacitors and related hybrid capacitors for the Journal of Power Sources. Journal of Power Sources, 2020, 450, 227636.	7.8	41
99	Natural Polymers as Green Binders for Highâ€Loading Supercapacitor Electrodes. ChemSusChem, 2020, 13, 763-770.	6.8	37
100	Unveiling and Amplifying the Benefits of Carbon-Coated Aluminum Current Collectors for Sustainable LiNi_{0.5}Mn_{1.5}O₄ Cathodes. ACS Applied Energy Materials, 2020, 3, 218-230.	5.1	25
101	Effect of Water and Alkaliâ€Ion Content on the Structure of Manganese(II) Hexacyanoferrate(II) by a Joint Operando Xâ€ray Absorption Spectroscopy and Chemometric Approach. ChemSusChem, 2020, 13, 608-615.	6.8	15
102	From Solidâ€Solution Electrodes and the Rockingâ€Chair Concept to Today's Batteries. Angewandte Chemie, 2020, 132, 542-546.	2.0	28
103	Electrochemical investigations of high-voltage Na4Ni3(PO4)2P2O7 cathode for sodium-ion batteries. Journal of Solid State Electrochemistry, 2020, 24, 17-24.	2.5	24
104	From Solidâ€Solution Electrodes and the Rockingâ€Chair Concept to Today's Batteries. Angewandte Chemie - International Edition, 2020, 59, 534-538.	13.8	124
105	Highly Concentrated KTFSIâ€‰:â€‰Glyme Electrolytes for K/Bilayeredâ€V₂O₅ Batteries. Batteries and Supercaps, 2020, 3, 261-267.	4.7	25
106	Ionic liquid electrolytes for high-voltage, lithium-ion batteries. Journal of Power Sources, 2020, 479, 228791.	7.8	64
107	Mechanistic Insights into the Lithiation and Delithiation of Iron-Doped Zinc Oxide: The Nucleation Site Model. ACS Applied Materials & Interfaces, 2020, 12, 8206-8218.	8.0	17
108	Cathodeâ€“Electrolyte Interphase in a LiTFSI/Tetraglyme Electrolyte Promoting the Cyclability of V2O5. ACS Applied Materials & Interfaces, 2020, 12, 54782-54790.	8.0	12

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109	Reducing Capacity and Voltage Decay of Coâ€Free Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ as Positive Electrode Material for Lithium Batteries Employing an Ionic Liquidâ€Based Electrolyte. Advanced Energy Materials, 2020, 10, 2001830.	19.5	42
110	Flexible and high temperature supercapacitor based on laser-induced graphene electrodes and ionic liquid electrolyte, a de-rated voltage analysis. Electrochimica Acta, 2020, 357, 136838.	5.2	54
111	High-energy lithium batteries based on single-ion conducting polymer electrolytes and Li[Ni0.8Co0.1Mn0.1]O2 cathodes. Nano Energy, 2020, 77, 105129.	16.0	76
112	Revisiting the energy efficiency and (potential) full-cell performance of lithium-ion batteries employing conversion/alloying-type negative electrodes. Journal of Power Sources, 2020, 473, 228583.	7.8	23
113	Halide-free water-in-salt electrolytes for stable aqueous sodium-ion batteries. Nano Energy, 2020, 77, 105176.	16.0	46
114	Metalâ€“Organic Framework Derived Fe₇S₈ Nanoparticles Embedded in Heteroatomâ€Doped Carbon with Lithium and Sodium Storage Capability. Small Methods, 2020, 4, 2000637.	8.6	46
115	Energy and environmental aspects in recycling lithium-ion batteries: Concept of Battery Identity Global Passport. Materials Today, 2020, 41, 304-315.	14.2	181
116	Operando pH Measurements Decipher H⁺/Zn²⁺ Intercalation Chemistry in High-Performance Aqueous Zn/Î´-V₂O₅ Batteries. ACS Energy Letters, 2020, 5, 2979-2986.	17.4	126
117	Determination of the Volume Changes Occurring for Conversion/Alloying-Type Li-Ion Anodes upon Lithiation/Delithiation. Journal of Physical Chemistry Letters, 2020, 11, 8238-8245.	4.6	12
118	Assessment on the Use of High Capacity â€œSn₄P₃â€/NHC Composite Electrodes for Sodiumâ€Ion Batteries with Ether and Carbonate Electrolytes. Advanced Functional Materials, 2020, 30, 2004798.	14.9	41
119	Understanding the Role of Nanoparticles in PEO-Based Hybrid Polymer Electrolytes for Solid-State Lithiumâ€“Polymer Batteries. Journal of Physical Chemistry C, 2020, 124, 27907-27915.	3.1	20
120	Structural Effects of Anomalous Current Densities on Manganese Hexacyanoferrate for Li-Ion Batteries. Applied Sciences (Switzerland), 2020, 10, 7573.	2.5	0
121	Side by Side Battery Technologies with Lithiumâ€Ion Based Batteries. Advanced Energy Materials, 2020, 10, 2000089.	19.5	127
122	Work Function Evolution in Li Anode Processing. Advanced Energy Materials, 2020, 10, 2000520.	19.5	40
123	Magnetic Resonance Imaging and Molecular Dynamics Characterization of Ionic Liquid in Poly(ethylene oxide)-Based Polymer Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 23800-23811.	8.0	8
124	Introducing Highly Redoxâ€Active Atomic Centers into Insertionâ€Type Electrodes for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2000783.	19.5	30
125	The Potential Role of Reactive Metals for a Clean Energy Transition. Advanced Energy Materials, 2020, 10, 2001002.	19.5	23
126	Structural Investigation of Quaternary Layered Oxides upon Na-Ion Deinsertion. Inorganic Chemistry, 2020, 59, 7408-7414.	4.0	9

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127	Evaluation of counter and reference electrodes for the investigation of Ca battery materials. Journal of Power Sources Advances, 2020, 2, 100008.	5.1	14
128	Sodium Induced Morphological Changes of Carbon Coated TiO2 Anatase Nanoparticles - High-Performance Materials for Na-Ion Batteries. MRS Advances, 2020, 5, 2221-2229.	0.9	4
129	Reactive Metals as Energy Storage and Carrier Media: Use of Aluminum for Power Generation in Fuel Cellâ€Based Power Plants. Energy Technology, 2020, 8, 2000233.	3.8	11
130	Manipulation of Nitrogen-Heteroatom Configuration for Enhanced Charge-Storage Performance and Reliability of Nanoporous Carbon Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 32797-32805.	8.0	32
131	High-Voltage Operation of a V₂O₅ Cathode in a Concentrated Gel Polymer Electrolyte for High-Energy Aqueous Zinc Batteries. ACS Applied Materials & Interfaces, 2020, 12, 15305-15312.	8.0	45
132	Determining Realistic Electrochemical Stability Windows of Electrolytes for Electrical Doubleâ€Layer Capacitors. Batteries and Supercaps, 2020, 3, 698-707.	4.7	33
133	Artificial Solid Electrolyte Interphases for Lithium Metal Electrodes by Wet Processing: The Role of Metal Salt Concentration and Solvent Choice. ACS Applied Materials & Interfaces, 2020, 12, 32851-32862.	8.0	38
134	Alkoxy-functionalized ionic liquid electrolytes: understanding ionic coordination of calcium ion speciation for the rational design of calcium electrolytes. Energy and Environmental Science, 2020, 13, 2559-2569.	30.8	36
135	Influence of Carbonate-Based Additives on the Electrochemical Performance of Si NW Anodes Cycled in an Ionic Liquid Electrolyte. Nano Letters, 2020, 20, 7011-7019.	9.1	18
136	Overcoming the Interfacial Limitations Imposed by the Solidâ€“Solid Interface in Solidâ€State Batteries Using Ionic Liquidâ€Based Interlayers. Small, 2020, 16, e2000279.	10.0	75
137	The Role of Cation Vacancies in Electrode Materials for Enhanced Electrochemical Energy Storage: Synthesis, Advanced Characterization, and Fundamentals. Advanced Energy Materials, 2020, 10, 1903780.	19.5	138
138	Coâ€Crosslinked Waterâ€Soluble Biopolymers as a Binder for Highâ€Voltage LiNi_{0.5}Mn_{1.5}O₄ | Graphite Lithiumâ€Ion Full Cells. ChemSusChem, 2020, 13, 2650-2660.	6.8	26
139	High loading CuS-based cathodes for all-solid-state lithium sulfur batteries with enhanced volumetric capacity. Energy Storage Materials, 2020, 27, 61-68.	18.0	64
140	Electrochemical intercalation of anions in graphite for high-voltage aqueous zinc battery. Journal of Power Sources, 2020, 449, 227594.	7.8	52
141	A Comparative Review of Electrolytes for Organicâ€Materialâ€Based Energyâ€Storage Devices Employing Solid Electrodes and Redox Fluids. ChemSusChem, 2020, 13, 2205-2219.	6.8	64
142	Good practice guide for papers on batteries for the Journal of Power Sources. Journal of Power Sources, 2020, 452, 227824.	7.8	34
143	Gelified acetate-based water-in-salt electrolyte stabilizing hexacyanoferrate cathode for aqueous potassium-ion batteries. Energy Storage Materials, 2020, 30, 196-205.	18.0	46
144	Anion exchange membrane electrolyte preserving inverse Ia<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mover accent="true"><mml:mn>3</mml:mn><mml:mo>â€¾</mml:mo></mml:mover></mml:mrow></mml:math>d bicontinuous cubic phase: Effect of microdomain morphology on selective ion transport. Journal of Membrane Science, 2020, 605, 118113.	8.2	15

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145	Electrolytes and Interphases in Sodiumâ€Based Rechargeable Batteries: Recent Advances and Perspectives. Advanced Energy Materials, 2020, 10, 2000093.	19.5	254
146	Bringing forward the development of battery cells for automotive applications: Perspective of R&D activities in China, Japan, the EU and the USA. Journal of Power Sources, 2020, 459, 228073.	7.8	109
147	Sodium Biphenyl as Anolyte for Sodiumâ€“Seawater Batteries. Advanced Functional Materials, 2020, 30, 2001249.	14.9	24
148	Crystal engineering of TMPOx-coated LiNi0.5Mn1.5O4 cathodes for high-performance lithium-ion batteries. Materials Today, 2020, 39, 127-136.	14.2	37
149	Partially Oxidized Cellulose grafted with Polyethylene Glycol mono-Methyl Ether (m-PEG) as Electrolyte Material for Lithium Polymer Battery. Carbohydrate Polymers, 2020, 240, 116339.	10.2	16
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