

Stefano Passerini

List of Publications by Year in descending order

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747
papers

52,191
citations

807

118
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3094

187
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792
all docs

792
docs citations

792
times ranked

31228
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-ion conducting polymer electrolyte for Li LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ batteries—impact of the anodic cutoff voltage and ambient temperature. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 97-102.	1.2	10
2	High-Li+-fraction ether-side-chain pyrrolidinium— asymmetric imide ionic liquid electrolyte for high-energy-density Si//Ni-rich layered oxide Li-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 430, 132693.	6.6	15
3	Silicon anode systems for lithium-ion batteries. , 2022, , 3-46.		2
4	Block copolymers as (single-ion conducting) lithium battery electrolytes. <i>Nanotechnology</i> , 2022, 33, 062002.	1.3	11
5	Effect of organic cations in locally concentrated ionic liquid electrolytes on the electrochemical performance of lithium metal batteries. <i>Energy Storage Materials</i> , 2022, 44, 370-378.	9.5	31
6	Covalency Competition Induced Active Octahedral Sites in Spinel Cobaltites for Enhanced Pseudocapacitive Charge Storage. <i>Advanced Energy Materials</i> , 2022, 12, 2102053.	10.2	41
7	Structure, Composition, Transport Properties, and Electrochemical Performance of the Electrode—Electrolyte Interphase in Non—Aqueous Na—Ion Batteries. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	27
8	Photo—Cross—Linked Single—Ion Conducting Polymer Electrolyte for Lithium—Metal Batteries. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100820.	2.0	12
9	Hybrid Energy Storage and Hydrogen Supply Based on Aluminum—a Multiservice Case for Electric Mobility and Energy Storage Services. <i>Advanced Materials Technologies</i> , 2022, 7, 2101400.	3.0	5
10	Diagnosis tools for humidity-born surface contaminants on Li[Ni _{0.8} Mn _{0.1} Co _{0.1}]O ₂ cathode materials for lithium batteries. <i>Journal of Power Sources</i> , 2022, 525, 231111.	4.0	7
11	The Emergence of Aqueous Ammonium—Ion Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	16
12	Advances and issues in developing intercalation graphite cathodes for aqueous batteries. <i>Materials Today</i> , 2022, 53, 162-172.	8.3	7
13	The Emergence of Aqueous Ammonium—Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	65
14	Stabilizing the Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ Li Interface for High Efficiency and Long Lifespan Quasi—Solid—State Lithium Metal Batteries. <i>ChemSusChem</i> , 2022, 15, .	3.6	11
15	Polysiloxane—Based Single—Ion Conducting Polymer Blend Electrolyte Comprising Small—Molecule Organic Carbonates for High—Energy and High—Power Lithium—Metal Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	53
16	Influence of the Current Density on the Interfacial Reactivity of Layered Oxide Cathodes for Sodium—Ion Batteries. <i>Energy Technology</i> , 2022, 10, .	1.8	3
17	Synergistic Effect of Co and Mn Co-Doping on SnO ₂ Lithium-Ion Anodes. <i>Inorganics</i> , 2022, 10, 46.	1.2	5
18	Molecular Insight into Microstructural and Dynamical Heterogeneities in Magnesium Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 105-111.	2.1	8

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19	Elucidating the Role of Microstructure in Thiophosphate Electrolytes â€“ a Combined Experimental and Theoretical Study of Li_3PS_4 . <i>Advanced Science</i> , 2022, 9, e2105234.	5.6	9
20	Anode-less seawater batteries with a Na-ion conducting solid-polymer electrolyte for power to metal and metal to power energy storage. <i>Energy and Environmental Science</i> , 2022, 15, 2610-2618.	15.6	20
21	Electrolyte Measures to Prevent Polysulfide Shuttle in Lithiumâ€Sulfur Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	20
22	Metalâ€Organic Framework Derived Copper Chalcogenidesâ€Carbon Composites as Highâ€Rate and Stable Storage Materials for Na Ions. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	14
23	Investigation of a Fluorine-Free Phosphonium-Based Ionic Liquid Electrolyte and Its Compatibility with Lithium Metal. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20888-20895.	4.0	4
24	Tuning Polybenzimidazole Membrane by Immobilizing a Novel Ionic Liquid with Superior Oxygen Reduction Reaction Kinetics. <i>Chemistry of Materials</i> , 2022, 34, 4298-4310.	3.2	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. <i>Materials Today Physics</i> , 2022, 24, 100687.	2.9	2
27	Layered $\text{P}_2\text{-Na}_x\text{Mn}_{3/4}\text{Ni}_{1/4}\text{O}_2$ Cathode Materials For Sodium-Ion Batteries: Synthesis, Electrochemistry and Influence of Ambient Storage. <i>Frontiers in Energy Research</i> , 2022, 10, .	1.2	9
28	Difluorobenzeneâ€Based Locally Concentrated Ionic Liquid Electrolyte Enabling Stable Cycling of Lithium Metal Batteries with Nickelâ€Rich Cathode. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	31
29	Concentrated Electrolytes Enabling Stable Aqueous Ammoniumâ€Ion Batteries. <i>Advanced Materials</i> , 2022, 34, .	11.1	40
30	Enhancing the Interfacial Stability of Highâ€Energy Si/Graphite $\text{Li}_{0.88}\text{Co}_{0.09}\text{Mn}_{0.03}\text{O}_2$ Batteries Employing a Dualâ€Anion Ionic Liquidâ€Based Electrolyte. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	3
31	Aluminum Steam Oxidation in the Framework of Longâ€Term Energy Storage: Experimental Analysis of the Reaction Parameters Effect on Metal Conversion Rate. <i>Energy Technology</i> , 2022, 10, .	1.8	0
32	Evaluation of Counter and Reference Electrodes for the Investigation of Ca Battery Materials. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 63-63.	0.0	0
33	Reinforcing the $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ Interfacial Stability By an Ultrathin Multifunctional Polysiloxane-Based Single-Ion Conducting Polymer. <i>ECS Meeting Abstracts</i> , 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. <i>ECS Meeting Abstracts</i> , 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. <i>ACS Macro Letters</i> , 2022, 11, 982-990.	2.3	5
36	Recycled Graphite for Sustainable Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 598-598.	0.0	2

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37	Polysiloxane-Based Single-Ion Conducting Polymer Electrolyte for High-Performance Li ⁺ -NMC ₈₁₁ Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 326-326.	0.0	0
38	Zinc-Ion Hybrid Supercapacitors Employing Acetate-Based Water-In-Salt Electrolytes. Small, 2022, 18, .	5.2	22
39	Challenges and Strategies for High-Energy Aqueous Electrolyte Rechargeable Batteries. Angewandte Chemie - International Edition, 2021, 60, 598-616.	7.2	272
40	Wässrige Hochleistungsbatterien: Herausforderungen und Strategien. Angewandte Chemie, 2021, 133, 608-626.	1.6	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.	4.0	29
42	Green and low-cost acetate-based electrolytes for the highly reversible zinc anode. Journal of Power Sources, 2021, 485, 229329.	4.0	37
43	Nonfluorinated Ionic Liquid Electrolytes for Lithium Metal Batteries: Ionic Conduction, Electrochemistry, and Interphase Formation. Advanced Energy Materials, 2021, 11, 2003521.	10.2	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.	2.8	27
45	The unseen evidence of Reduced Ionicity: The elephant in (the) room temperature ionic liquids. Journal of Molecular Liquids, 2021, 324, 115069.	2.3	27
46	Tragacanth Gum as Green Binder for Sustainable Water-Processable Electrochemical Capacitor. ChemSusChem, 2021, 14, 356-362.	3.6	18
47	Sodium Cyclopentadienide as a New Type of Electrolyte for Sodium Batteries. ChemElectroChem, 2021, 8, 365-369.	1.7	1
48	Tin-Containing Graphite for Sodium-Ion Batteries and Hybrid Capacitors. Batteries and Supercaps, 2021, 4, 173-182.	2.4	27
49	Zn-Based Conversion/Alloying Negative Electrodes for Lithium-Ion Batteries: Impact of Mixing Intimacy. Energy Technology, 2021, 9, 2001084.	1.8	7
50	Assessment and progress of polyanionic cathodes in aqueous sodium batteries. Energy and Environmental Science, 2021, 14, 5788-5800.	15.6	39
51	Impact of the Transition Metal Dopant in Zinc Oxide Lithium-Ion Anodes on the Solid Electrolyte Interphase Formation. Small Methods, 2021, 5, e2001021.	4.6	17
52	Local Interactions Governing the Performances of Lithium- and Manganese-Rich Cathodes. Journal of Physical Chemistry Letters, 2021, 12, 1195-1201.	2.1	5
53	Strategies towards enabling lithium metal in batteries: interphases and electrodes. Energy and Environmental Science, 2021, 14, 5289-5314.	15.6	156
54	Effect of the Secondary Rutile Phase in Single-Step Synthesized Carbon-Coated Anatase TiO ₂ Nanoparticles as Lithium-Ion Anode Material. Energy Technology, 2021, 9, 2001067.	1.8	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.	8.8	21
56	Embedding Heterostructured MnS/MnO Nanoparticles in N -Doped Carbonaceous Porous Framework as High-Performance Anode for Lithium-Ion Batteries. ChemElectroChem, 2021, 8, 918-927.	1.7	21
57	Acidic Ionic Liquids Enabling Intermediate Temperature Operation Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 8370-8382.	4.0	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.	1.3	8
59	Assessing the Reactivity of Hard Carbon Anodes: Linking Material Properties with Electrochemical Response Upon Sodium- and Lithium-Ion Storage. Batteries and Supercaps, 2021, 4, 960-977.	2.4	23
60	Working Principle of an Ionic Liquid Interlayer During Pressureless Lithium Stripping on $\text{Li}_{0.625}\text{Al}_{0.25}\text{La}_3\text{Zr}_2\text{O}_{12}$ (LLZO) Garnet-Type Solid Electrolyte. Batteries and Supercaps, 2021, 4, 1145-1155.	2.4	23
61	Soft X-ray Transmission Microscopy on Lithium-Rich Layered-Oxide Cathode Materials. Applied Sciences (Switzerland), 2021, 11, 2791.	1.3	6
62	Impact of Crystal Density on the Electrochemical Behavior of Lithium-Ion Anode Materials: Exemplary Investigation of (Fe-Doped) GeO_2 . Journal of Physical Chemistry C, 2021, 125, 8947-8958.	1.5	5
63	Characterization of Ion Association and Solvation in NaPF ₆ Carbonate Electrolytes. ECS Meeting Abstracts, 2021, MA2021-01, 462-462.	0.0	0
64	Transport studies of NaPF ₆ carbonate solvents-based sodium ion electrolytes. Electrochimica Acta, 2021, 377, 138062.	2.6	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 – in-depth investigation by ex situ and operando X-ray absorption spectroscopy. Materials Today Chemistry, 2021, 20, 100478.	1.7	10
67	Highly Stable Quasi-Solid-State Lithium Metal Batteries: Reinforced $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3/\text{Li}$ Interface by a Protection Interlayer. Advanced Energy Materials, 2021, 11, 2101339.	10.2	62
68	Reversible Copper Sulfide Conversion in Nonflammable Trimethyl Phosphate Electrolytes for Safe Sodium-Ion Batteries. Small Structures, 2021, 2, 2100035.	6.9	30
69	Enhanced Li^+ Transport in Ionic Liquid-Based Electrolytes Aided by Fluorinated Ethers for Highly Efficient Lithium Metal Batteries with Improved Rate Capability. Small Methods, 2021, 5, e2100168.	4.6	34
70	Lithium Phosphonate Functionalized Polymer Coating for High-Energy $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}]\text{O}_2$ with Superior Performance at Ambient and Elevated Temperatures. Advanced Functional Materials, 2021, 31, 2105343.	7.8	42
71	Gravure-Printed Conversion/Alloying Anodes for Lithium-Ion Batteries. Energy Technology, 2021, 9, 2100315.	1.8	10
72	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery. Advanced Energy Materials, 2021, 11, 2100962.	10.2	39

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73	Liquid-Assisted Mechanochemical Synthesis of Li-Doped Sulfide Glass Electrolyte. Energy Technology, 2021, 9, 2100385.	1.8	2
74	Ordered nano-structured mesoporous CMK-8 and other carbonaceous positive electrodes for rechargeable aluminum batteries. Chemical Engineering Journal, 2021, 417, 129131.	6.6	15
75	A Thin and Uniform Fluoride-Based Artificial Interphase for the Zinc Metal Anode Enabling Reversible Zn/MnO ₂ Batteries. ACS Energy Letters, 2021, 6, 3063-3071.	8.8	134
76	The passivity of lithium electrodes in liquid electrolytes for secondary batteries. Nature Reviews Materials, 2021, 6, 1036-1052.	23.3	201
77	Dual-anion ionic liquid electrolyte enables stable Ni-rich cathodes in lithium-metal batteries. Joule, 2021, 5, 2177-2194.	11.7	83
78	Cycle parameter dependent degradation analysis in automotive lithium-ion cells. Journal of Power Sources, 2021, 506, 230227.	4.0	7
79	Redox-Mediated Red-Phosphorous Semi-Liquid Anode Enabling Metal-Free Rechargeable Na-Seawater Batteries with High Energy Density. Advanced Energy Materials, 2021, 11, 2102061.	10.2	13
80	Production of high-energy Li-ion batteries comprising silicon-containing anodes and insertion-type cathodes. Nature Communications, 2021, 12, 5459.	5.8	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.	9.5	22
82	A mismatch electrical conductivity skeleton enables dendrite-free and high stability lithium metal anode. Nano Energy, 2021, 89, 106421.	8.2	17
83	On the nanoscopic structural heterogeneity of liquid <i>n</i> -alkyl carboxylic acids. Physical Chemistry Chemical Physics, 2021, 23, 20282-20287.	1.3	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.	2.1	6
86	Monitoring the Sodiation Mechanism of Anatase TiO ₂ Nanoparticle-Based Electrodes for Sodium-Ion Batteries by Operando XANES Measurements. ACS Applied Energy Materials, 2021, 4, 164-175.	2.5	9
87	Quasi-Solid-State Lithium Metal Batteries Using the LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ "Li _{1+x} Al _x Ti _{1-x} Composite Positive Electrode. ACS Applied Materials & Interfaces, 2021, 13, 53810-53817.		
88	Combined Role of Biaxial Strain and Nonstoichiometry for the Electronic, Magnetic, and Redox Properties of Lithiated Metal-Oxide Films: The LiMn ₂ O ₄ Case. ACS Applied Materials & Interfaces, 2021, 13, 54610-54619.	4.0	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 LiNi _{0.5} Mn _{1.5} O ₄ 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.	1.4	5
92	Highlighting the Reversible Manganese Electroactivity in Na-Rich Manganese Hexacyanoferrate Material for Li- and Na-ion Storage. Small Methods, 2020, 4, 1900529.	4.6	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.	1.9	14
94	Deriving Structure-Performance Relations of Chemically Modified Chitosan Binders for Sustainable High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Cathodes. Batteries and Supercaps, 2020, 3, 155-164.	2.4	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.	4.0	37
96	Transition Metal Oxide Anodes for Electrochemical Energy Storage in Lithium- and Sodium-ion Batteries. Advanced Energy Materials, 2020, 10, 1902485.	10.2	511
97	Effect of Electrolyte Additives on the LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ Surface Film Formation with Lithium and Graphite Negative Electrodes. Advanced Materials Interfaces, 2020, 7, 1901500.	1.9	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.	4.0	41
99	Natural Polymers as Green Binders for High-Loading Supercapacitor Electrodes. ChemSusChem, 2020, 13, 763-770.	3.6	37
100	Unveiling and Amplifying the Benefits of Carbon-Coated Aluminum Current Collectors for Sustainable LiNi _{0.5} Mn _{1.5} O ₄ Cathodes. ACS Applied Energy Materials, 2020, 3, 218-230.	2.5	25
101	Effect of Water and Alkali-ion Content on the Structure of Manganese(II) Hexacyanoferrate(II) by a Joint Operando X-ray Absorption Spectroscopy and Chemometric Approach. ChemSusChem, 2020, 13, 608-615.	3.6	15
102	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. Angewandte Chemie, 2020, 132, 542-546.	1.6	28
103	Electrochemical investigations of high-voltage Na ₄ Ni ₃ (PO ₄) ₂ P ₂ O ₇ cathode for sodium-ion batteries. Journal of Solid State Electrochemistry, 2020, 24, 17-24.	1.2	24
104	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. Angewandte Chemie - International Edition, 2020, 59, 534-538.	7.2	124
105	Highly Concentrated KTFSl-Glyme Electrolytes for K/Bilayered-V ₂ O ₅ Batteries. Batteries and Supercaps, 2020, 3, 261-267.	2.4	25
106	Ionic liquid electrolytes for high-voltage, lithium-ion batteries. Journal of Power Sources, 2020, 479, 228791.	4.0	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.	4.0	17
108	Cathode-Electrolyte Interphase in a LiTFSI/Tetraglyme Electrolyte Promoting the Cyclability of V ₂ O ₅ . ACS Applied Materials & Interfaces, 2020, 12, 54782-54790.	4.0	12

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109	Reducing Capacity and Voltage Decay of Co ⁰ Free Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ as Positive Electrode Material for Lithium Batteries Employing an Ionic Liquid-Based Electrolyte. <i>Advanced Energy Materials</i> , 2020, 10, 2001830.	10.2	42
110	Flexible and high temperature supercapacitor based on laser-induced graphene electrodes and ionic liquid electrolyte, a de-rated voltage analysis. <i>Electrochimica Acta</i> , 2020, 357, 136838.	2.6	54
111	High-energy lithium batteries based on single-ion conducting polymer electrolytes and Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ cathodes. <i>Nano Energy</i> , 2020, 77, 105129.	8.2	76
112	Revisiting the energy efficiency and (potential) full-cell performance of lithium-ion batteries employing conversion/alloying-type negative electrodes. <i>Journal of Power Sources</i> , 2020, 473, 228583.	4.0	23
113	Halide-free water-in-salt electrolytes for stable aqueous sodium-ion batteries. <i>Nano Energy</i> , 2020, 77, 105176.	8.2	46
114	Metal-Organic Framework Derived Fe ₇ S ₈ Nanoparticles Embedded in Heteroatom-Doped Carbon with Lithium and Sodium Storage Capability. <i>Small Methods</i> , 2020, 4, 2000637.	4.6	46
115	Energy and environmental aspects in recycling lithium-ion batteries: Concept of Battery Identity Global Passport. <i>Materials Today</i> , 2020, 41, 304-315.	8.3	181
116	<i>Operando</i> pH Measurements Decipher H ⁺ /Zn ²⁺ Intercalation Chemistry in High-Performance Aqueous Zn ²⁺ /VO ₅ Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2979-2986.	8.8	126
117	Determination of the Volume Changes Occurring for Conversion/Alloying-Type Li-Ion Anodes upon Lithiation/Delithiation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8238-8245.	2.1	12
118	Assessment on the Use of High Capacity Sn ₄ P ₃ -NHC Composite Electrodes for Sodium-Ion Batteries with Ether and Carbonate Electrolytes. <i>Advanced Functional Materials</i> , 2020, 30, 2004798.	7.8	41
119	Understanding the Role of Nanoparticles in PEO-Based Hybrid Polymer Electrolytes for Solid-State Lithium-Polymer Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27907-27915.	1.5	20
120	Structural Effects of Anomalous Current Densities on Manganese Hexacyanoferrate for Li-Ion Batteries. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7573.	1.3	0
121	Side by Side Battery Technologies with Lithium-Ion Based Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000089.	10.2	127
122	Work Function Evolution in Li Anode Processing. <i>Advanced Energy Materials</i> , 2020, 10, 2000520.	10.2	40
123	Magnetic Resonance Imaging and Molecular Dynamics Characterization of Ionic Liquid in Poly(ethylene oxide)-Based Polymer Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23800-23811.	4.0	8
124	Introducing Highly Redox-Active Atomic Centers into Insertion-Type Electrodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000783.	10.2	30
125	The Potential Role of Reactive Metals for a Clean Energy Transition. <i>Advanced Energy Materials</i> , 2020, 10, 2001002.	10.2	23
126	Structural Investigation of Quaternary Layered Oxides upon Na-Ion Deinsertion. <i>Inorganic Chemistry</i> , 2020, 59, 7408-7414.	1.9	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.	2.6	14
128	Sodium Induced Morphological Changes of Carbon Coated TiO ₂ Anatase Nanoparticles - High-Performance Materials for Na-Ion Batteries. MRS Advances, 2020, 5, 2221-2229.	0.5	4
129	Reactive Metals as Energy Storage and Carrier Media: Use of Aluminum for Power Generation in Fuel Cell-Based Power Plants. Energy Technology, 2020, 8, 2000233.	1.8	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.	4.0	32
131	High-Voltage Operation of a V ₂ O ₅ Cathode in a Concentrated Gel Polymer Electrolyte for High-Energy Aqueous Zinc Batteries. ACS Applied Materials & Interfaces, 2020, 12, 15305-15312.	4.0	45
132	Determining Realistic Electrochemical Stability Windows of Electrolytes for Electrical Double-Layer Capacitors. Batteries and Supercaps, 2020, 3, 698-707.	2.4	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.	4.0	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.	15.6	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.	4.5	18
136	Overcoming the Interfacial Limitations Imposed by the Solid-Solid Interface in Solid-State Batteries Using Ionic Liquid-Based Interlayers. Small, 2020, 16, e2000279.	5.2	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.	10.2	138
138	Co-Crosslinked Water-Soluble Biopolymers as a Binder for High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Graphite Lithium-Ion Full Cells. ChemSusChem, 2020, 13, 2650-2660.	3.6	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.	9.5	64
140	Electrochemical intercalation of anions in graphite for high-voltage aqueous zinc battery. Journal of Power Sources, 2020, 449, 227594.	4.0	52
141	A Comparative Review of Electrolytes for Organic-Material-Based Energy-Storage Devices Employing Solid Electrodes and Redox Fluids. ChemSusChem, 2020, 13, 2205-2219.	3.6	64
142	Good practice guide for papers on batteries for the Journal of Power Sources. Journal of Power Sources, 2020, 452, 227824.	4.0	34
143	Gelified acetate-based water-in-salt electrolyte stabilizing hexacyanoferrate cathode for aqueous potassium-ion batteries. Energy Storage Materials, 2020, 30, 196-205.	9.5	46
144	Anion exchange membrane electrolyte preserving inverse Ia ₃ d bicontinuous cubic phase: Effect of microdomain morphology on selective ion transport. Journal of Membrane Science, 2020, 605, 118113.	4.1	15

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145	Electrolytes and Interphases in Sodium-Based Rechargeable Batteries: Recent Advances and Perspectives. <i>Advanced Energy Materials</i> , 2020, 10, 2000093.	10.2	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. <i>Journal of Power Sources</i> , 2020, 459, 228073.	4.0	109
147	Sodium Biphenyl as Anolyte for Sodium-Seawater Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2001249.	7.8	24
148	Crystal engineering of TMPOx-coated LiNi _{0.5} Mn _{1.5} O ₄ cathodes for high-performance lithium-ion batteries. <i>Materials Today</i> , 2020, 39, 127-136.	8.3	37
149	Partially Oxidized Cellulose grafted with Polyethylene Glycol mono-Methyl Ether (m-PEG) as Electrolyte Material for Lithium Polymer Battery. <i>Carbohydrate Polymers</i> , 2020, 240, 116339.	5.1	16
150	Towards Advanced Sodium-Ion Batteries: Green, Low-Cost and High-Capacity Anode Compartment Encompassing Phosphorus/Carbon Nanocomposite as the Active Material and Aluminum as the Current Collector. <i>Journal of the Electrochemical Society</i> , 2020, 167, 080509.	1.3	7
151	Scalable Synthesis of Microsized, Nanocrystalline Zn _{0.9} Fe _{0.1} O Secondary Particles and Their Use in Zn _{0.9} Fe _{0.1} O/LiNi _{0.5} Mn _{1.5} O ₄ Lithium-Ion Full Cells. <i>ChemSusChem</i> , 2020, 13, 3504-3513.	3.6	14
152	Lattice Compensation to Jahn-Teller Distortion in Na-Rich Manganese Hexacyanoferrate for Li-Ion Storage: An Operando Study. <i>ACS Applied Energy Materials</i> , 2020, 3, 5728-5733.	2.5	22
153	Solvent-Dictated Sodium Sulfur Redox Reactions: Investigation of Carbonate and Ether Electrolytes. <i>Energies</i> , 2020, 13, 836.	1.6	19
154	The Effect of Crystalline Structure and Iron Doping on the Electrochemical Behavior of Germanium Oxide Anodes in Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 378-378.	0.0	0
155	Elucidating the Interfacial Reactions for Conversion-Alloying Materials Towards the Realization of High-Performance Lithium-Ion Full-Cells. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 449-449.	0.0	0
156	High Mass Loading Copper Sulfide Based Composite Cathodes for All-Solid-State Lithium Sulfur Batteries Enables High Volumetric Capacity. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 558-558.	0.0	0
157	Ultra-Stable Performance of Ni-Rich Layered Oxide Cathodes for Lithium-Ion Batteries Using Ionic Liquid Electrolyte. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 219-219.	0.0	0
158	Acetate-Based Water-in-Salt Electrolyte for Aqueous Sodium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 568-568.	0.0	0
159	Mechanistic Insights into the De-/Lithiation of Iron-Doped Zinc Oxide: From Fundamental Understanding to Practical Considerations. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 245-245.	0.0	0
160	(Invited) Mechanistic Study of Sodium Insertion into Bio-Waste Derived Hard Carbon Anode for Sodium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 5-5.	0.0	0
161	Germanium Oxide Negative Electrodes - Tuning Synthesis Conditions Towards High-Energy and High-Power Lithium-Ion Cells. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 249-249.	0.0	0
162	High-Performance Lithium-Ion Negative Electrodes Based on Silicon Nanowires/Graphite Composites. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 248-248.	0.0	0

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163	(Invited) Tailored Design of Polymer Electrolytes for Advanced High-Capacity and High-Voltage Lithium Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 843-843.	0.0	0
164	(Battery Division Student Research Award Sponsored by Mercedes-Benz Research & Development) Sustainable High-Performance Lithium-Ion Batteries: Aqueous Processing of Cobalt-Free High-Energy Cathodes. ECS Meeting Abstracts, 2020, MA2020-02, 8-8.	0.0	0
165	(Invited) Greener Supercapacitors: Aqueous Binders and Moisture Tolerant Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 609-609.	0.0	1
166	Study of the Na Storage Mechanism in Silicon Oxycarbide—Evidence for Reversible Silicon Redox Activity. Small Methods, 2019, 3, 1800177.	4.6	19
167	Influence of Salt Concentration on the Properties of Sodium-Based Electrolytes. Small Methods, 2019, 3, 1800208.	4.6	36
168	4-V flexible all-solid-state lithium polymer batteries. Nano Energy, 2019, 64, 103986.	8.2	39
169	Concentrated Ionic-Liquid-Based Electrolytes for High-Voltage Lithium Batteries with Improved Performance at Room Temperature. ChemSusChem, 2019, 12, 4185-4193.	3.6	57
170	Toward Stable Electrode/Electrolyte Interface of P2-Layered Oxide for Rechargeable Na-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 28885-28893.	4.0	35
171	Enhancing the Electrochemical Performance of $\text{LiNi}_{0.4}\text{Co}_{0.2}\text{Mn}_{0.4}\text{O}_{2}$ by $\text{V}_{2}\text{O}_{5}/\text{LiV}_{3}\text{O}_{8}$ Coating. ACS Applied Materials & Interfaces, 2019, 11, 26994-27003.	4.0	36
172	Increased Cycling Performance of Li-Ion Batteries by Phosphoric Acid Modified $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_{4}$ Cathodes in the Presence of LiBOB. International Journal of Electrochemistry, 2019, 2019, 1-7.	2.4	17
173	Alloying Reaction Confinement Enables High-Capacity and Stable Anodes for Lithium-Ion Batteries. ACS Nano, 2019, 13, 9511-9519.	7.3	48
174	Ultra-thick battery electrodes for high gravimetric and volumetric energy density Li-ion batteries. Journal of Power Sources, 2019, 437, 226923.	4.0	57
175	Revisiting the Electrochemical Lithiation Mechanism of Aluminum and the Role of Li-Rich Phases (Li_{1+x}) $\text{Tj ETQq}_{1,1} \text{O}_{3,6} \text{r}_{1,4} \text{rgBT}_{2}$	1.1	0.7843
176	Understanding the Electrode/Electrolyte Interface Layer on the Li-Rich Nickel Manganese Cobalt Layered Oxide Cathode by XPS. ACS Applied Materials & Interfaces, 2019, 11, 43166-43179.	4.0	74
177	Composition Modulation of Ionic Liquid Hybrid Electrolyte for 5 V Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 42049-42056.	4.0	18
178	Superior Lithium Storage Capacity of MnS Nanoparticles Embedded in N -Doped Carbonaceous Mesoporous Frameworks. Advanced Energy Materials, 2019, 9, 1902077.	10.2	108
179	High-Power Na-Ion and K-Ion Hybrid Capacitors Exploiting Cointercalation in Graphite Negative Electrodes. ACS Energy Letters, 2019, 4, 2675-2682.	8.8	88
180	A More Sustainable and Cheaper One-Pot Route for the Synthesis of Hydrophobic Ionic Liquids for Electrolyte Applications. ChemSusChem, 2019, 12, 4946-4952.	3.6	9

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181	Synthesis and Operando Sodiation Mechanistic Study of Nitrogen-Doped Porous Carbon Coated Bimetallic Sulfide Hollow Nanocubes as Advanced Sodium Ion Battery Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1902312.	10.2	74
182	Elucidating the Effect of Iron Doping on the Electrochemical Performance of Cobalt-Free Lithium-Rich Layered Cathode Materials. <i>Advanced Energy Materials</i> , 2019, 9, 1902445.	10.2	70
183	Structural Study of Carbon-Coated TiO ₂ Anatase Nanoparticles as High-Performance Anode Materials for Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 7142-7151.	2.5	18
184	Critical Evaluation of the Use of 3D Carbon Networks Enhancing the Long-Term Stability of Lithium Metal Anodes. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	2
185	A Comparison of Formation Methods for Graphite//LiFePO ₄ Cells. <i>Batteries and Supercaps</i> , 2019, 2, 240-247.	2.4	28
186	Asymmetric ammonium-based ionic liquids as electrolyte components for safer, high-energy, electrochemical storage devices. <i>Energy Storage Materials</i> , 2019, 18, 1-9.	9.5	23
187	Calcium vanadate sub-microfibers as highly reversible host cathode material for aqueous zinc-ion batteries. <i>Chemical Communications</i> , 2019, 55, 2265-2268.	2.2	111
188	Role of Manganese in Lithium- and Manganese-Rich Layered Oxides Cathodes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3359-3368.	2.1	29
189	Ionic Liquid-Based Electrolytes for Sodium-Ion Batteries: Tuning Properties To Enhance the Electrochemical Performance of Manganese-Based Layered Oxide Cathode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22278-22289.	4.0	49
190	A Post-Mortem Study of Stacked 16 Ah Graphite//LiFePO ₄ Pouch Cells Cycled at 5 °C. <i>Batteries</i> , 2019, 5, 45.	2.1	8
191	Modular development of metal oxide/carbon composites for electrochemical energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13096-13102.	5.2	22
192	In Situ Investigation of Layered Oxides with Mixed Structures for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900239.	4.6	20
193	Decoupling segmental relaxation and ionic conductivity for lithium-ion polymer electrolytes. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 779-792.	1.7	129
194	Revisiting the Electrochemical Lithiation Mechanism of Aluminum and the Role of Li-Rich Phases (Li _{1+x} Al) on Capacity Fading. <i>ChemSusChem</i> , 2019, 12, 2609-2619.	3.6	39
195	Prototype rechargeable magnesium batteries using ionic liquid electrolytes. <i>Journal of Power Sources</i> , 2019, 423, 52-59.	4.0	48
196	A comprehensive insight into the volumetric response of graphite electrodes upon sodium co-intercalation in ether-based electrolytes. <i>Electrochimica Acta</i> , 2019, 304, 474-486.	2.6	25
197	Efficiency and Quality Issues in the Production of Black Phosphorus by Mechanochemical Synthesis: A Multi-Technique Approach. <i>ACS Applied Energy Materials</i> , 2019, 2, 2794-2802.	2.5	18
198	Glyme-Based Electrolyte for Na/Bilayered-V ₂ O ₅ Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 2786-2793.	2.5	20

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199	Unlocking Simultaneously the Temperature and Electrochemical Windows of Aqueous Phthalocyanine Electrolytes. ACS Applied Energy Materials, 2019, 2, 3773-3779.	2.5	32
200	Statistic-Driven Proton Transfer Affecting Nanoscopic Organization in an Ethylammonium Nitrate Ionic Liquid and 1,4-Diaminobutane Binary Mixture: A Steamy Pizza Model. Symmetry, 2019, 11, 1425.	1.1	6
201	Single-Ion Conducting Electrolyte Based on Electrospun Nanofibers for High-Performance Lithium Batteries. Advanced Energy Materials, 2019, 9, 1803422.	10.2	109
202	Amorphous Lithium Sulfide as Lithium-Sulfur Battery Cathode with Low Activation Barrier. Energy Technology, 2019, 7, 1801013.	1.8	17
203	Electrolytes based on N-Butyl-N-Methyl-Pyrrolidinium 4,5-Dicyano-2-(Trifluoromethyl) Imidazole for High Voltage Electrochemical Double Layer Capacitors. ChemElectroChem, 2019, 6, 552-557.	1.7	9
204	Exploring SnS nanoparticles interpenetrated with high concentration nitrogen-doped-carbon as anodes for sodium ion batteries. Electrochimica Acta, 2019, 296, 806-813.	2.6	27
205	Development of an all-solid-state lithium battery by slurry-coating procedures using a sulfidic electrolyte. Energy Storage Materials, 2019, 17, 204-210.	9.5	125
206	Internal strain and temperature discrimination with optical fiber hybrid sensors in Li-ion batteries. Journal of Power Sources, 2019, 410-411, 1-9.	4.0	110
207	Hard carbons for sodium-ion batteries: Structure, analysis, sustainability, and electrochemistry. Materials Today, 2019, 23, 87-104.	8.3	537
208	Impact of the electrolyte salt anion on the solid electrolyte interphase formation in sodium ion batteries. Nano Energy, 2019, 55, 327-340.	8.2	209
209	Probing the 3-Step Lithium Storage Mechanism in CH ₃ NH ₃ PbBr ₃ Perovskite Electrode by <i>Operando</i> XRD Analysis. ChemElectroChem, 2019, 6, 456-460.	1.7	22
210	Room temperature ionic liquid (RTIL)-based electrolyte cocktails for safe, high working potential Li-based polymer batteries. Journal of Power Sources, 2019, 412, 398-407.	4.0	100
211	In-Situ Electrochemical SHINERS Investigation of SEI Composition on Carbon-Coated Zn _{0.9} Fe _{0.1} O Anode for Lithium-Ion Batteries. Batteries and Supercaps, 2019, 2, 168-177.	2.4	32
212	Enabling Reversible (De)Lithiation of Aluminum by using Bis(fluorosulfonyl)imide-Based Electrolytes. ChemSusChem, 2019, 12, 208-212.	3.6	19
213	Large-scale stationary energy storage: Seawater batteries with high rate and reversible performance. Energy Storage Materials, 2019, 16, 56-64.	9.5	41
214	Effect of Aging-Induced Dioxolane Polymerization on the Electrochemistry of Carbon-Coated Lithium Sulfide. Frontiers in Chemistry, 2019, 7, 893.	1.8	1
215	(Keynote) All-Solid-State Lithium Battery Based on Sulfidic Electrolytes. ECS Meeting Abstracts, 2019, , .	0.0	0
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218	Evaluation of guar gum-based biopolymers as binders for lithium-ion batteries electrodes. Electrochimica Acta, 2018, 265, 89-97.	2.6	48
219	Towards High-Performance Aqueous Sodium-Ion Batteries: Stabilizing the Solid/Liquid Interface for NASICON-Type $\text{Na}_2\text{VTi}(\text{PO}_4)_3$ using Concentrated Electrolytes. ChemSusChem, 2018, 11, 1382-1389.	3.6	75
220	High energy and high voltage integrated photo-electrochemical double layer capacitor. Sustainable Energy and Fuels, 2018, 2, 968-977.	2.5	23
221	All-solid-state lithium-ion and lithium metal batteries " paving the way to large-scale production. Journal of Power Sources, 2018, 382, 160-175.	4.0	428
222	Water decontamination by polyoxometalate-functionalized 3D-printed hierarchical porous devices. Chemical Communications, 2018, 54, 3018-3021.	2.2	16
223	Frontispiece: New Electrode and Electrolyte Configurations for Lithium-Oxygen Battery. Chemistry - A European Journal, 2018, 24, .	1.7	0
224	Addressing the energy sustainability of biowaste-derived hard carbon materials for battery electrodes. Green Chemistry, 2018, 20, 1527-1537.	4.6	32
225	Perspectives of automotive battery R&D in China, Germany, Japan, and the USA. Journal of Power Sources, 2018, 382, 176-178.	4.0	184
226	Dielectric spectroscopy of Pyr14TFSI and Pyr12O1TFSI ionic liquids. Electrochimica Acta, 2018, 274, 400-405.	2.6	1
227	Research Update: Hard carbon with closed pores from pectin-free apple pomace waste for Na-ion batteries. APL Materials, 2018, 6, 047501.	2.2	26
228	Electrochemical and structural investigation of transition metal doped V_2O_5 sono-aerogel cathodes for lithium metal batteries. Solid State Ionics, 2018, 319, 46-52.	1.3	16
229	Beyond Insertion for Na-Ion Batteries: Nanostructured Alloying and Conversion Anode Materials. Advanced Energy Materials, 2018, 8, 1702582.	10.2	231
230	One-dimensional nanomaterials for energy storage. Journal Physics D: Applied Physics, 2018, 51, 113002.	1.3	48
231	Communication: Investigation of ion aggregation in ionic liquids and their solutions with lithium salt under high pressure. Journal of Chemical Physics, 2018, 148, 031102.	1.2	16
232	Connection between Lithium Coordination and Lithium Diffusion in $[\text{Pyr}_{12}\text{O}_1][\text{FTFSI}]$ Ionic Liquid Electrolytes. ChemSusChem, 2018, 11, 1981-1989.	3.6	46
233	Optimized hard carbon derived from starch for rechargeable seawater batteries. Carbon, 2018, 129, 564-571.	5.4	54
234	$\text{Na}_3\text{Si}_2\text{Y}_0.16\text{Zr}_{1.84}\text{PO}_{12}$ -ionic liquid hybrid electrolytes: An approach for realizing solid-state sodium-ion batteries?. Journal of Power Sources, 2018, 383, 157-163.	4.0	23

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235	A multiple electrolyte concept for lithium-metal batteries. <i>Solid State Ionics</i> , 2018, 316, 66-74.	1.3	13
236	Lithium Polymer Electrolytes and Batteries. <i>Series on Chemistry, Energy and the Environment</i> , 2018, , 319-364.	0.3	1
237	Comparative Analysis of Aqueous Binders for High-Energy Li-Rich NMC as a Lithium-Ion Cathode and the Impact of Adding Phosphoric Acid. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17214-17222.	4.0	52
238	Influence of the doping ratio and the carbon coating content on the electrochemical performance of Co-doped SnO ₂ for lithium-ion anodes. <i>Electrochimica Acta</i> , 2018, 277, 100-109.	2.6	36
239	Non-aqueous potassium-ion batteries: a review. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 41-48.	2.5	108
240	Relevance of ion clusters for Li transport at elevated salt concentrations in [Pyr ₂ O ₁][FTFSI] ionic liquid-based electrolytes. <i>Chemical Communications</i> , 2018, 54, 4278-4281.	2.2	56
241	A cost and resource analysis of sodium-ion batteries. <i>Nature Reviews Materials</i> , 2018, 3, .	23.3	1,463
242	On the interaction of carbon electrodes and non conventional electrolytes in high-voltage electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 717-725.	1.2	9
243	Low Polarization Lithium-Oxygen Battery Using [DEME][TFSI] Ionic Liquid Electrolyte. <i>ChemSusChem</i> , 2018, 11, 229-236.	3.6	35
244	3D Porous Cu-Zn Alloys as Alternative Anode Materials for Li-ion Batteries with Superior Low Temperature Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1701706.	10.2	85
245	Complementary Strategies Toward the Aqueous Processing of High Voltage Li _{0.5} Mn _{1.5} O ₄ Lithium-ion Cathodes. <i>ChemSusChem</i> , 2018, 11, 562-573.	3.6	70
246	New Electrode and Electrolyte Configurations for Lithium-Oxygen Battery. <i>Chemistry - A European Journal</i> , 2018, 24, 3178-3185.	1.7	12
247	Comparative study of imide-based Li salts as electrolyte additives for Li-ion batteries. <i>Journal of Power Sources</i> , 2018, 375, 43-52.	4.0	154
248	Alternative binders for sustainable electrochemical energy storage – the transition to aqueous electrode processing and bio-derived polymers. <i>Energy and Environmental Science</i> , 2018, 11, 3096-3127.	15.6	379
249	Manganese phosphate coated Li[Ni _{0.6} Co _{0.2} Mn _{0.2}]O ₂ cathode material: Towards superior cycling stability at elevated temperature and high voltage. <i>Journal of Power Sources</i> , 2018, 402, 263-271.	4.0	99
250	Conversion/alloying lithium-ion anodes – enhancing the energy density by transition metal doping. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2601-2608.	2.5	41
251	High-Efficiency Sodium-Ion Battery Based on NASICON Electrodes with High Power and Long Lifespan. <i>ACS Applied Energy Materials</i> , 2018, 1, 6425-6432.	2.5	25
252	High-Performance Na _{0.44} MnO ₂ Slabs for Sodium-Ion Batteries Obtained through Urea-Based Solution Combustion Synthesis. <i>Batteries</i> , 2018, 4, 8.	2.1	13

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254	Fluorine-Free Water-In-Salt Electrolyte for Green and Low-Cost Aqueous Sodium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 3704-3707.	3.6	90
255	Highly porous single-ion conductive composite polymer electrolyte for high performance Li-ion batteries. <i>Journal of Power Sources</i> , 2018, 397, 79-86.	4.0	37
256	Role Platinum Nanoparticles Play in the Kinetic Mechanism of Oxygen Reduction Reaction in Nonaqueous Solvents. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15826-15834.	1.5	8
257	Cobalt Disulfide Nanoparticles Embedded in Porous Carbonaceous Micro-Polyhedrons Interlinked by Carbon Nanotubes for Superior Lithium and Sodium Storage. <i>ACS Nano</i> , 2018, 12, 7220-7231.	7.3	234
258	Impact of the Acid Treatment on Lignocellulosic Biomass Hard Carbon for Sodium-Ion Battery Anodes. <i>ChemSusChem</i> , 2018, 11, 3276-3285.	3.6	49
259	Dendrite Growth in Mg Metal Cells Containing Mg(TFSI) ₂ /Glyme Electrolytes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1983-A1990.	1.3	124
260	Aqueous/Nonaqueous Hybrid Electrolyte for Sodium-Ion Batteries. <i>ACS Energy Letters</i> , 2018, 3, 1769-1770.	8.8	80
261	MnPO ₄ -Coated Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ for Lithium-Ion Batteries with Outstanding Cycling Stability and Enhanced Lithiation Kinetics. <i>Advanced Energy Materials</i> , 2018, 8, 1801573.	10.2	87
262	Ionic Liquid-Based Electrolyte Membranes for Medium-High Temperature Lithium Polymer Batteries. <i>Membranes</i> , 2018, 8, 41.	1.4	23
263	High Capacity All-Solid-State Lithium Batteries Enabled by Pyrite-Sulfur Composites. <i>Advanced Energy Materials</i> , 2018, 8, 1801462.	10.2	89
264	Structural and Electrochemical Characterization of Zn _{1-x} FexO Effect of Aliovalent Doping on the Li ⁺ Storage Mechanism. <i>Materials</i> , 2018, 11, 49.	1.3	25
265	Hybrid electrolytes for lithium metal batteries. <i>Journal of Power Sources</i> , 2018, 392, 206-225.	4.0	179
266	Insights into the Structure and Transport of the Lithium, Sodium, Magnesium, and Zinc Bis(trifluoromethanesulfonyl)imide Salts in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20108-20121.	1.5	64
267	Sodium-Ion Batteries: Beyond Insertion for Na-Ion Batteries: Nanostructured Alloying and Conversion Anode Materials (<i>Adv. Energy Mater.</i> 17/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870082.	10.2	47
268	(Invited) Ion Clusters and Li Transport in [Pyr12O1][FTFSI] Ionic Liquid-Based Electrolytes. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
269	(Keynote) MnPO ₄ -Coating for Improved Long-Term Performance of Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ in Ionic Liquid-Based Electrolytes. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
270	Toward Greener Lithium-Ion Batteries: Aqueous Binder-Based LiNi _{0.4} Co _{0.2} Mn _{0.4} O ₂ Cathode Material with Superior Electrochemical Performance. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0

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271	Towards the Realization of Aqueous Electrode Processing for Sustainable High-Energy Lithium-Ion Cathodes. ECS Meeting Abstracts, 2018, MA2018-02, 223-223.	0.0	1
272	NMR Characterization of the Na ⁺ Ion Transport in Mixed Ionic Liquids Electrolytes. ECS Meeting Abstracts, 2018, . .	0.0	0
273	How much does size really matter? Exploring the limits of graphene as Li ion battery anode material. Solid State Communications, 2017, 251, 88-93.	0.9	36
274	Is the Solid Electrolyte Interphase an Extra-Charge Reservoir in Li-Ion Batteries?. ACS Applied Materials & Interfaces, 2017, 9, 4570-4576.	4.0	74
275	Toward high energy density cathode materials for sodium-ion batteries: investigating the beneficial effect of aluminum doping on the P2-type structure. Journal of Materials Chemistry A, 2017, 5, 4467-4477.	5.2	108
276	Excellent Cycling Stability and Superior Rate Capability of Na ₃ V ₂ (PO ₄) ₃ Cathodes Enabled by Nitrogen-Doped Carbon Interpenetration for Sodium-Ion Batteries. ChemElectroChem, 2017, 4, 1256-1263.	1.7	32
277	Physicochemical and electrochemical investigations of the ionic liquid N-butyl-N-methyl-pyrrolidinium 4,5-dicyano-2-(trifluoromethyl)imidazole. Electrochimica Acta, 2017, 232, 586-595.	2.6	6
278	The impact of mixtures of protic ionic liquids on the operative temperature range of use of battery systems. Electrochemistry Communications, 2017, 78, 47-50.	2.3	18
279	Electrochemical performance of a solvent-free hybrid ceramic-polymer electrolyte based on Li ₇ La ₃ Zr ₂ O ₁₂ in P(EO) 15 LiTFSI. Journal of Power Sources, 2017, 353, 287-297.	4.0	159
280	Pectin, Hemicellulose, or Lignin? Impact of the Biowaste Source on the Performance of Hard Carbons for Sodium-Ion Batteries. ChemSusChem, 2017, 10, 2668-2676.	3.6	125
281	Insights into the reversibility of aluminum graphite batteries. Journal of Materials Chemistry A, 2017, 5, 9682-9690.	5.2	112
282	The Effect of 1-Pentylamine as Solid Electrolyte Interphase Precursor on Lithium Metal Anodes. Electrochimica Acta, 2017, 240, 408-414.	2.6	21
283	Nanostructured Na-ion and Li-ion anodes for battery application: A comparative overview. Nano Research, 2017, 10, 3942-3969.	5.8	88
284	Radical Decomposition of Ether-Based Electrolytes for Li-S Batteries. Journal of the Electrochemical Society, 2017, 164, A1812-A1819.	1.3	23
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434	Lithium-Ion Batteries: ZnFe ₂ O ₄ /LiFePO ₄ /CNT: A Novel High-Power Lithium-Ion Battery with Excellent Cycling Performance (<i>Adv. Energy Mater.</i> 10/2014). <i>Advanced Energy Materials</i> , 2014, 4, .	10.2	5
435	Rechargeable-hybrid-seawater fuel cell. <i>NPG Asia Materials</i> , 2014, 6, e144-e144.	3.8	68
436	P-type Na _x Ni _{0.22} Co _{0.11} Mn _{0.66} O ₂ materials: linking synthesis with structure and electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20263-20270.	5.2	84
437	Anatase TiO ₂ nanoparticles for high power sodium-ion anodes. <i>Journal of Power Sources</i> , 2014, 251, 379-385.	4.0	297
438	Investigations on novel electrolytes, solvents and SEI additives for use in lithium-ion batteries: Systematic electrochemical characterization and detailed analysis by spectroscopic methods. <i>Progress in Solid State Chemistry</i> , 2014, 42, 65-84.	3.9	176
439	Challenges of "Going Nano" Enhanced Electrochemical Performance of Cobalt Oxide Nanoparticles by Carbothermal Reduction and In Situ Carbon Coating. <i>ChemPhysChem</i> , 2014, 15, 2177-2185.	1.0	38
440	Enabling aqueous binders for lithium battery cathodes " Carbon coating of aluminum current collector. <i>Journal of Power Sources</i> , 2014, 248, 1000-1006.	4.0	144
441	An Advanced Lithium-Air Battery Exploiting an Ionic Liquid-Based Electrolyte. <i>Nano Letters</i> , 2014, 14, 6572-6577.	4.5	200
442	Probing Lithiation Kinetics of Carbon-Coated ZnFe ₂ O ₄ Nanoparticle Battery Anodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6069-6076.	1.5	62
443	A New, High Energy Sn/C/Li[Li _{0.2} Ni _{0.4/3} Co _{0.4/3} Mn _{1.6/3}]O ₂ Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12956-12961.	4.0	38
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445	Mechanisms of Magnesium Ion Transport in Pyrrolidinium Bis(trifluoromethanesulfonyl)imide-Based Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28361-28368.	1.5	28
446	Enabling LiTFSI-based Electrolytes for Safer Lithium-Ion Batteries by Using Linear Fluorinated Carbonates as (Co)Solvent. <i>ChemSusChem</i> , 2014, 7, 2939-2946.	3.6	76
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740	An Electrochromic Window Based on $\text{Li}_x \text{WO}_3 / (\text{PEO})_8 \text{LiClO}_4 / \text{NiO}$. Journal of the Electrochemical Society, 1989, 136, 3394-3395.	1.3	75
741	Characteristics of Electrochemically Synthesized Polymer Electrodes: VI. Kinetics of the Process of Polypyrrole Oxidation. Journal of the Electrochemical Society, 1989, 136, 3729-3734.	1.3	76
742	Electrochemical characterization of a class of low temperature conducting polymer electrolytes. Electrochimica Acta, 1989, 34, 635-640.	2.6	28
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744	Characteristics of a poly(ethylene oxide)- LiBF_4 polymer electrolyte. Journal of Applied Electrochemistry, 1988, 18, 401-404.	1.5	13
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746	Solid State Thermo-electrochromic Display. Journal of the Electrochemical Society, 1987, 134, 753-755.	1.3	33
747	Infrared levels of monomeric uracil in cryogenic matrices. Journal of Molecular Structure, 1984, 116, 49-65.	1.8	68