

Stefano Passerini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5557184/publications.pdf>

Version: 2024-02-01

747
papers

52,191
citations

813

118
h-index

3031

188
g-index

792
all docs

792
docs citations

792
times ranked

31228
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of graphene for electrochemical energy storage. <i>Nature Materials</i> , 2015, 14, 271-279.	13.3	2,237
2	A cost and resource analysis of sodium-ion batteries. <i>Nature Reviews Materials</i> , 2018, 3, .	23.3	1,463
3	An Overview and Future Perspectives of Aluminum Batteries. <i>Advanced Materials</i> , 2016, 28, 7564-7579.	11.1	650
4	Safer Electrolytes for Lithium-Ion Batteries: State of the Art and Perspectives. <i>ChemSusChem</i> , 2015, 8, 2154-2175.	3.6	641
5	Ionic-Liquid-Based Polymer Electrolytes for Battery Applications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 500-513.	7.2	637
6	High temperature carbon-carbon supercapacitor using ionic liquid as electrolyte. <i>Journal of Power Sources</i> , 2007, 165, 922-927.	4.0	552
7	The Lithium/Air Battery: Still an Emerging System or a Practical Reality?. <i>Advanced Materials</i> , 2015, 27, 784-800.	11.1	543
8	Hard carbons for sodium-ion batteries: Structure, analysis, sustainability, and electrochemistry. <i>Materials Today</i> , 2019, 23, 87-104.	8.3	537
9	Ionic liquids and their solid-state analogues as materials for energy generation and storage. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	511
10	Transition Metal Oxide Anodes for Electrochemical Energy Storage in Lithium- and Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1902485.	10.2	511
11	Recent progress and remaining challenges in sulfur-based lithium secondary batteries – a review. <i>Chemical Communications</i> , 2013, 49, 10545.	2.2	467
12	Ionic liquids to the rescue? Overcoming the ionic conductivity limitations of polymer electrolytes. <i>Electrochemistry Communications</i> , 2003, 5, 1016-1020.	2.3	443
13	All-solid-state lithium-ion and lithium metal batteries – paving the way to large-scale production. <i>Journal of Power Sources</i> , 2018, 382, 160-175.	4.0	428
14	The mechanism of HF formation in LiPF ₆ based organic carbonate electrolytes. <i>Electrochemistry Communications</i> , 2012, 14, 47-50.	2.3	401
15	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
16	Current research trends and prospects among the various materials and designs used in lithium-based batteries. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 481-496.	1.5	362
17	Non-Aqueous K-Ion Battery Based on Layered K _{0.3} MnO ₂ and Hard Carbon/Carbon Black. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1295-A1299.	1.3	349
18	PEO-Based Polymer Electrolytes with Ionic Liquids and Their Use in Lithium Metal-Polymer Electrolyte Batteries. <i>Journal of the Electrochemical Society</i> , 2005, 152, A978.	1.3	327

#	ARTICLE	IF	CITATIONS
19	Carbon Coated ZnFe ₂ O ₄ Nanoparticles for Advanced Lithium-Ion Anodes. <i>Advanced Energy Materials</i> , 2013, 3, 513-523.	10.2	312
20	Anatase TiO ₂ nanoparticles for high power sodium-ion anodes. <i>Journal of Power Sources</i> , 2014, 251, 379-385.	4.0	297
21	Unfolding the Mechanism of Sodium Insertion in Anatase TiO ₂ Nanoparticles. <i>Advanced Energy Materials</i> , 2015, 5, 1401142.	10.2	293
22	Challenges and prospects of the role of solid electrolytes in the revitalization of lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17251-17259.	5.2	293
23	ZnFe ₂ O ₄ /LiFePO ₄ @CNT: A Novel High-Power Lithium-Ion Battery with Excellent Cycling Performance. <i>Advanced Energy Materials</i> , 2014, 4, 1-9.	10.2	287
24	Electrodeposited ZnO/Cu ₂ O heterojunction solar cells. <i>Electrochimica Acta</i> , 2008, 53, 2226-2231.	2.6	285
25	Phase Behavior of Ionic Liquid-LiX Mixtures: Pyrrolidinium Cations and TFSI-Anions. <i>Chemistry of Materials</i> , 2004, 16, 2881-2885.	3.2	282
26	Two-Dimensional Titanium Carbide/RGO Composite for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15661-15667.	4.0	275
27	Reversible Intercalation of Bis(trifluoromethanesulfonyl)imide Anions from an Ionic Liquid Electrolyte into Graphite for High Performance Dual-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1755-A1765.	1.3	274
28	Challenges and Strategies for High-Energy Aqueous Electrolyte Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 598-616.	7.2	272
29	Electrolytes and Interphases in Sodium-Based Rechargeable Batteries: Recent Advances and Perspectives. <i>Advanced Energy Materials</i> , 2020, 10, 2000093.	10.2	254
30	Mixtures of ionic liquid and organic carbonate as electrolyte with improved safety and performance for rechargeable lithium batteries. <i>Electrochimica Acta</i> , 2011, 56, 4092-4099.	2.6	252
31	Ionic liquids in supercapacitors. <i>MRS Bulletin</i> , 2013, 38, 554-559.	1.7	249
32	Low Cost, Environmentally Benign Binders for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010, 157, A320.	1.3	244
33	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
34	Beyond Insertion for Na-Ion Batteries: Nanostructured Alloying and Conversion Anode Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1702582.	10.2	231
35	Lithium- and Manganese-Rich Oxide Cathode Materials for High-Energy Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600906.	10.2	230
36	Energy Storage Materials Synthesized from Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13342-13359.	7.2	228

#	ARTICLE	IF	CITATIONS
37	Life cycle assessment of sodium-ion batteries. <i>Energy and Environmental Science</i> , 2016, 9, 1744-1751.	15.6	224
38	Nanoscale organization in piperidinium-based room temperature ionic liquids. <i>Journal of Chemical Physics</i> , 2009, 130, 164521.	1.2	221
39	Enhanced thermal stability of a lithiated nano-silicon electrode by fluoroethylene carbonate and vinylene carbonate. <i>Journal of Power Sources</i> , 2013, 222, 140-149.	4.0	217
40	Effect of the alkyl group on the synthesis and the electrochemical properties of N-alkyl-N-methyl-pyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquids. <i>Electrochimica Acta</i> , 2009, 54, 1325-1332.	2.6	210
41	Impact of the electrolyte salt anion on the solid electrolyte interphase formation in sodium ion batteries. <i>Nano Energy</i> , 2019, 55, 327-340.	8.2	209
42	Extraordinary Performance of Carbon-Coated Anatase TiO ₂ as Sodium-Ion Anode. <i>Advanced Energy Materials</i> , 2016, 6, 1501489.	10.2	205
43	High Performance Na _{0.5} [Ni _{0.23} Fe _{0.13} Mn _{0.63}]O ₂ Cathode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1400083.	10.2	204
44	Leveraging valuable synergies by combining alloying and conversion for lithium-ion anodes. <i>Energy and Environmental Science</i> , 2016, 9, 3348-3367.	15.6	202
45	Apple-Biowaste-Derived Hard Carbon as a Powerful Anode Material for Na-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 292-298.	1.7	201
46	The passivity of lithium electrodes in liquid electrolytes for secondary batteries. <i>Nature Reviews Materials</i> , 2021, 6, 1036-1052.	23.3	201
47	An Advanced Lithium-Air Battery Exploiting an Ionic Liquid-Based Electrolyte. <i>Nano Letters</i> , 2014, 14, 6572-6577.	4.5	200
48	X-ray diffraction studies of the electrochemical intercalation of bis(trifluoromethanesulfonyl)imide anions into graphite for dual-ion cells. <i>Journal of Power Sources</i> , 2013, 239, 563-571.	4.0	197
49	Raman Investigation of the Ionic Liquid N-Methyl-N-propylpyrrolidinium Bis(trifluoromethanesulfonyl)imide and Its Mixture with LiN(SO ₂ CF ₃) ₂ . <i>Journal of Physical Chemistry A</i> , 2005, 109, 92-96.	1.1	196
50	Synthesis of Hydrophobic Ionic Liquids for Electrochemical Applications. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1685.	1.3	193
51	Toward Na-ion Batteries—Synthesis and Characterization of a Novel High Capacity Na Ion Intercalation Material. <i>Chemistry of Materials</i> , 2013, 25, 142-148.	3.2	192
52	Doped Vanadium Oxides as Host Materials for Lithium Intercalation. <i>Journal of the Electrochemical Society</i> , 1999, 146, 1355-1360.	1.3	190
53	Production of high-energy Li-ion batteries comprising silicon-containing anodes and insertion-type cathodes. <i>Nature Communications</i> , 2021, 12, 5459.	5.8	190
54	Cycling stability of a hybrid activated carbon//poly(3-methylthiophene) supercapacitor with N-butyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquid as electrolyte. <i>Electrochimica Acta</i> , 2005, 50, 2233-2237.	2.6	186

#	ARTICLE	IF	CITATIONS
55	Perspectives of automotive battery R&D in China, Germany, Japan, and the USA. Journal of Power Sources, 2018, 382, 176-178.	4.0	184
56	Electrochemical Properties of Polyethylene Oxide-Li[CF ₃ SO ₂] ₂ Electrolytes. Journal of the Electrochemical Society, 1995, 142, 2118-2121.	1.3	181
57	Synthesis and electrochemical performance of the high voltage cathode material Li[Li _{0.2} Mn _{0.56} Ni _{0.16} Co _{0.08}]O ₂ with improved rate capability. Journal of Power Sources, 2011, 196, 4821-4825.	4.0	181
58	Energy and environmental aspects in recycling lithium-ion batteries: Concept of Battery Identity Global Passport. Materials Today, 2020, 41, 304-315.	8.3	181
59	Use of natural binders and ionic liquid electrolytes for greener and safer lithium-ion batteries. Journal of Power Sources, 2011, 196, 2187-2194.	4.0	180
60	Hybrid electrolytes for lithium metal batteries. Journal of Power Sources, 2018, 392, 206-225.	4.0	179
61	A New Synthetic Route for Preparing LiFePO ₄ with Enhanced Electrochemical Performance. Journal of the Electrochemical Society, 2002, 149, A886.	1.3	178
62	NMR Investigation of Ionic Liquid-LiX Mixtures: Pyrrolidinium Cations and TFSI-Anions. Journal of Physical Chemistry B, 2005, 109, 22814-22819.	1.2	178
63	High Surface Area V ₂ O ₅ Aerogel Intercalation Electrodes. Journal of the Electrochemical Society, 1996, 143, 2099-2104.	1.3	177
64	Solid-state Li/LiFePO ₄ polymer electrolyte batteries incorporating an ionic liquid cycled at 40°C. Journal of Power Sources, 2006, 156, 560-566.	4.0	177
65	Lithium insertion in graphite from ternary ionic liquid-lithium salt electrolytes. Electrochemical characterization of the electrolytes. Journal of Power Sources, 2009, 192, 599-605.	4.0	176
66	Investigations on novel electrolytes, solvents and SEI additives for use in lithium-ion batteries: Systematic electrochemical characterization and detailed analysis by spectroscopic methods. Progress in Solid State Chemistry, 2014, 42, 65-84.	3.9	176
67	Suppression of aluminum current collector corrosion in ionic liquid containing electrolytes. Journal of Power Sources, 2012, 214, 178-184.	4.0	169
68	Synthesis and characterization of highly conducting gel electrolytes. Electrochimica Acta, 1994, 39, 2187-2194.	2.6	167
69	Comprehensive Insights into the Reactivity of Electrolytes Based on Sodium Ions. ChemSusChem, 2016, 9, 462-471.	3.6	167
70	Physical and Electrochemical Properties of N-Alkyl-N-methylpyrrolidinium Bis(fluorosulfonyl)imide Ionic Liquids: PY ₁₃ FSI and PY ₁₄ FSI. Journal of Physical Chemistry B, 2008, 112, 13577-13580.	1.2	166
71	Transition-Metal-Doped Zinc Oxide Nanoparticles as a New Lithium-Ion Anode Material. Chemistry of Materials, 2013, 25, 4977-4985.	3.2	165
72	Intercalation of Polyvalent Cations into V ₂ O ₅ Aerogels. Chemistry of Materials, 1998, 10, 682-684.	3.2	164

#	ARTICLE	IF	CITATIONS
73	Electrochemical double layer capacitor and lithium-ion capacitor based on carbon black. <i>Journal of Power Sources</i> , 2011, 196, 8836-8842.	4.0	162
74	A Comparative Study of Layered Transition Metal Oxide Cathodes for Application in Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5206-5212.	4.0	162
75	Water sensitivity of layered P2/P3-Na _x Ni _{0.22} Co _{0.11} Mn _{0.66} O ₂ cathode material. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13415-13421.	5.2	159
76	In-Depth Interfacial Chemistry and Reactivity Focused Investigation of Lithium-Imide- and Lithium-Imidazole-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16087-16100.	4.0	159
77	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. <i>Journal of Power Sources</i> , 2017, 353, 287-297.	4.0	159
78	UV cross-linked, lithium-conducting ternary polymer electrolytes containing ionic liquids. <i>Journal of Power Sources</i> , 2010, 195, 6130-6137.	4.0	157
79	Solvent-free, PYR1ATFSI ionic liquid-based ternary polymer electrolyte systems. <i>Journal of Power Sources</i> , 2007, 171, 861-869.	4.0	156
80	Layered Na-ion Cathodes with Outstanding Performance Resulting from the Synergetic Effect of Mixed P&O-type Phases. <i>Advanced Energy Materials</i> , 2016, 6, 1501555.	10.2	156
81	Strategies towards enabling lithium metal in batteries: interphases and electrodes. <i>Energy and Environmental Science</i> , 2021, 14, 5289-5314.	15.6	156
82	Bilayered Nanostructured V ₂ O ₅ ·nH ₂ O for Metal Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600868.	10.2	154
83	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
84	The role of conductive polymers in advanced electrochemical technology. <i>Electrochimica Acta</i> , 1994, 39, 255-263.	2.6	150
85	Chemical-physical properties of bis(perfluoroalkylsulfonyl)imide-based ionic liquids. <i>Electrochimica Acta</i> , 2011, 56, 1300-1307.	2.6	149
86	Influence of graphite surface modifications on the ratio of basal plane to non-basal plane surface area and on the anode performance in lithium ion batteries. <i>Journal of Power Sources</i> , 2012, 200, 83-91.	4.0	147
87	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
88	A sodium-ion battery exploiting layered oxide cathode, graphite anode and glyme-based electrolyte. <i>Journal of Power Sources</i> , 2016, 310, 26-31.	4.0	144
89	Mechanism of Anodic Dissolution of the Aluminum Current Collector in 1 M LiTFSI EC:DEC 3:7 in Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A356-A360.	1.3	143
90	How Do Reactions at the Anode/Electrolyte Interface Determine the Cathode Performance in Lithium-Ion Batteries?. <i>Journal of the Electrochemical Society</i> , 2013, 160, A542-A548.	1.3	143

#	ARTICLE	IF	CITATIONS
91	The Role of Cation Vacancies in Electrode Materials for Enhanced Electrochemical Energy Storage: Synthesis, Advanced Characterization, and Fundamentals. <i>Advanced Energy Materials</i> , 2020, 10, 1903780.	10.2	138
92	Investigation on the Stability of the Lithium-Polymer Electrolyte Interface. <i>Journal of the Electrochemical Society</i> , 2000, 147, 4448.	1.3	136
93	Electrochemical and Physicochemical Properties of PY ₁₄ FSI-Based Electrolytes with LiFSI. <i>Journal of the Electrochemical Society</i> , 2009, 156, A891.	1.3	136
94	Electrolyte Solvation and Ionic Association III. Acetonitrile-Lithium Salt Mixtures—Transport Properties. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1061-A1070.	1.3	136
95	Exceptional long-life performance of lithium-ion batteries using ionic liquid-based electrolytes. <i>Energy and Environmental Science</i> , 2016, 9, 3210-3220.	15.6	136
96	Molecular Environment and Enhanced Diffusivity of Li ⁺ Ions in Lithium-Salt-Doped Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 153-157.	2.1	134
97	A Thin and Uniform Fluoride-Based Artificial Interphase for the Zinc Metal Anode Enabling Reversible Zn/MnO ₂ Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3063-3071.	8.8	134
98	An Elegant Fix for Polymer Electrolytes. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A125.	2.2	133
99	Ion chromatographic determination of hydrolysis products of hexafluorophosphate salts in aqueous solution. <i>Analytica Chimica Acta</i> , 2012, 714, 121-126.	2.6	133
100	Development of safe, green and high performance ionic liquids-based batteries (ILLIBATT project). <i>Journal of Power Sources</i> , 2011, 196, 9719-9730.	4.0	132
101	Critical Insight into the Relentless Progression Toward Graphene and Graphene-Containing Materials for Lithium-Ion Battery Anodes. <i>Advanced Materials</i> , 2017, 29, 1603421.	11.1	132
102	Lithium ion insertion in porous metal oxides. <i>Electrochimica Acta</i> , 1999, 45, 215-224.	2.6	131
103	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
104	On the cycling stability of lithium-ion capacitors containing soft carbon as anodic material. <i>Journal of Power Sources</i> , 2013, 238, 388-394.	4.0	128
105	Interface Investigations of a Commercial Lithium Ion Battery Graphite Anode Material by Sputter Depth Profile X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2013, 29, 5806-5816.	1.6	127
106	Side by Side Battery Technologies with Lithium-Ion Based Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000089.	10.2	127
107	Natural cellulose as binder for lithium battery electrodes. <i>Journal of Power Sources</i> , 2012, 199, 331-335.	4.0	126
108	<i>Operando</i> pH Measurements Decipher H ⁺ /Zn ²⁺ Intercalation Chemistry in High-Performance Aqueous Zn/V ₂ O ₅ Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2979-2986.	8.8	126

#	ARTICLE	IF	CITATIONS
109	Unexpected performance of layered sodium-ion cathode material in ionic liquid-based electrolyte. <i>Journal of Power Sources</i> , 2014, 247, 377-383.	4.0	125
110	Pectin, Hemicellulose, or Lignin? Impact of the Biowaste Source on the Performance of Hard Carbons for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2017, 10, 2668-2676.	3.6	125
111	Development of an all-solid-state lithium battery by slurry-coating procedures using a sulfidic electrolyte. <i>Energy Storage Materials</i> , 2019, 17, 204-210.	9.5	125
112	Investigation of thermal aging and hydrolysis mechanisms in commercial lithium ion battery electrolyte. <i>Journal of Power Sources</i> , 2013, 242, 832-837.	4.0	124
113	Puzzling out the origin of the electrochemical activity of black P as a negative electrode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5293.	5.2	124
114	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
115	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 534-538.	7.2	124
116	Melting Behavior of Pyrrolidinium-Based Ionic Liquids and Their Binary Mixtures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12364-12369.	1.5	122
117	Recent developments in the ENEA lithium metal battery project. <i>Electrochimica Acta</i> , 2005, 50, 3859-3865.	2.6	121
118	Phase Behavior of Ionic Liquid-LiX Mixtures: Pyrrolidinium Cations and TFSI ⁻ Anions - Linking Structure to Transport Properties. <i>Chemistry of Materials</i> , 2011, 23, 4331-4337.	3.2	121
119	Complex Nature of Ionic Coordination in Magnesium Ionic Liquid-Based Electrolytes: Solvates with Mobile Mg ²⁺ Cations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9966-9973.	1.5	121
120	Lithium insertion in graphite from ternary ionic liquid-lithium salt electrolytes: II. Evaluation of specific capacity and cycling efficiency and stability at room temperature. <i>Journal of Power Sources</i> , 2009, 192, 606-611.	4.0	120
121	Development of ionic liquid-based lithium battery prototypes. <i>Journal of Power Sources</i> , 2012, 199, 239-246.	4.0	119
122	Ionic Liquid Electrolytes for Safer Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6026-A6031.	1.3	118
123	Characterization of Solvent-Free Polymer Electrolytes Consisting of Ternary PEO-LiTFSI-PYR ₁₄ -TFSI. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1649.	1.3	117
124	Dependency of Aluminum Collector Corrosion in Lithium Ion Batteries on the Electrolyte Solvent. <i>ECS Electrochemistry Letters</i> , 2012, 1, C9-C11.	1.9	117
125	PEO-LiN(SO ₂ CF ₃) ₂ Polymer Electrolytes: I. XRD, DSC, and Ionic Conductivity Characterization. <i>Journal of the Electrochemical Society</i> , 2001, 148, A1171.	1.3	115
126	Internal and External Temperature Monitoring of a Li-Ion Battery with Fiber Bragg Grating Sensors. <i>Sensors</i> , 2016, 16, 1394.	2.1	114

#	ARTICLE	IF	CITATIONS
127	Insights into the reversibility of aluminum graphite batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9682-9690.	5.2	112
128	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
129	Internal strain and temperature discrimination with optical fiber hybrid sensors in Li-ion batteries. <i>Journal of Power Sources</i> , 2019, 410-411, 1-9.	4.0	110
130	Ionic liquids as tailored media for the synthesis and processing of energy conversion materials. <i>Energy and Environmental Science</i> , 2016, 9, 49-61.	15.6	109
131	Single-Ion Conducting Electrolyte Based on Electrospun Nanofibers for High-Performance Lithium Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803422.	10.2	109
132	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
133	In Situ X-Ray Absorption Spectroscopy Characterization of V_2O_5 Xerogel Cathodes upon Lithium Intercalation. <i>Journal of the Electrochemical Society</i> , 1999, 146, 2387-2392.	1.3	108
134	Dual-ion Cells Based on Anion Intercalation into Graphite from Ionic Liquid-Based Electrolytes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 391-407.	1.4	108
135	Nanocrystalline TiO_2 (B) as Anode Material for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A3052-A3058.	1.3	108
136	Mg-doping for improved long-term cyclability of layered Na-ion cathode materials – The example of P2-type $\text{Na}_x\text{Mg}_0.11\text{Mn}_0.89\text{O}_2$. <i>Journal of Power Sources</i> , 2015, 282, 581-585.	4.0	108
137	Toward high energy density cathode materials for sodium-ion batteries: investigating the beneficial effect of aluminum doping on the P2-type structure. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4467-4477.	5.2	108
138	Non-aqueous potassium-ion batteries: a review. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 41-48.	2.5	108
139	Superior Lithium Storage Capacity of MnS Nanoparticles Embedded in N -Doped Carbonaceous Mesoporous Frameworks. <i>Advanced Energy Materials</i> , 2019, 9, 1902077.	10.2	108
140	Aerogels and Xerogels of V_2O_5 as Intercalation Hosts. <i>Journal of the Electrochemical Society</i> , 1995, 142, L102-L103.	1.3	106
141	The role of the cation aliphatic side chain length in piperidinium bis(trifluoromethanesulfonyl)imide ionic liquids. <i>Electrochimica Acta</i> , 2011, 57, 153-159.	2.6	106
142	High flash point electrolyte for use in lithium-ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 7530-7535.	2.6	105
143	Investigations on cellulose-based high voltage composite cathodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 7687-7691.	4.0	105
144	Hysteresis Effects in the Potential-Dependent Double Layer Capacitance of Room Temperature Ionic Liquids at a Polycrystalline Platinum Interface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3614-3617.	1.5	104

#	ARTICLE	IF	CITATIONS
145	Performance of LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ /graphite batteries based on aqueous binder. <i>Journal of Power Sources</i> , 2014, 248, 915-922.	4.0	104
146	Overview of energy/hydrogen storage: state-of-the-art of the technologies and prospects for nanomaterials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 108, 2-8.	1.7	103
147	Room temperature lithium polymer batteries based on ionic liquids. <i>Journal of Power Sources</i> , 2011, 196, 6703-6709.	4.0	103
148	ZnO/ZnFe ₂ O ₄ /N-doped C micro-polyhedrons with hierarchical hollow structure as high-performance anodes for lithium-ion batteries. <i>Nano Energy</i> , 2017, 42, 341-352.	8.2	103
149	Structural Organization and Transport Properties of Novel Pyrrolidinium-Based Ionic Liquids with Perfluoroalkyl Sulfonylimide Anions. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10750-10759.	1.2	102
150	Room temperature ionic liquid (RTIL)-based electrolyte cocktails for safe, high working potential Li-based polymer batteries. <i>Journal of Power Sources</i> , 2019, 412, 398-407.	4.0	100
151	Fe-doped SnO ₂ nanoparticles as new high capacity anode material for secondary lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 299, 398-402.	4.0	99
152	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
153	Ionic mobility in ternary polymer electrolytes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2012, 86, 330-338.	2.6	95
154	Characteristics of an ionic liquid electrolyte for sodium-ion batteries. <i>Journal of Power Sources</i> , 2016, 303, 203-207.	4.0	95
155	An electrochemical study of oxygen reduction in pyrrolidinium-based ionic liquids for lithium/oxygen batteries. <i>Electrochimica Acta</i> , 2012, 83, 94-104.	2.6	93
156	Homogeneous Lithium Electrodeposition with Pyrrolidinium-Based Ionic Liquid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5950-5958.	4.0	92
157	Natural, cheap and environmentally friendly binder for supercapacitors. <i>Journal of Power Sources</i> , 2013, 221, 14-20.	4.0	91
158	Thermal and electrochemical properties of PEO-LiTFSI-Pyr14TFSI-based composite cathodes, incorporating 4ÅV-class cathode active materials. <i>Journal of Power Sources</i> , 2014, 246, 846-857.	4.0	91
159	The Intercalation of Lithium in Nickel Oxide and Its Electrochromic Properties. <i>Journal of the Electrochemical Society</i> , 1990, 137, 3297-3300.	1.3	90
160	Beneficial influence of succinic anhydride as electrolyte additive on the self-discharge of 5ÅV LiNi _{0.4} Mn _{1.6} O ₄ cathodes. <i>Journal of Power Sources</i> , 2013, 236, 39-46.	4.0	90
161	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
162	High Capacity All-Solid-State Lithium Batteries Enabled by Pyrite-Sulfur Composites. <i>Advanced Energy Materials</i> , 2018, 8, 1801462.	10.2	89

#	ARTICLE	IF	CITATIONS
163	High rate electrodes of V2O5 aerogel. <i>Electrochimica Acta</i> , 1999, 44, 2209-2217.	2.6	88
164	Influence of the carbonaceous conductive network on the electrochemical performance of ZnFe2O4 nanoparticles. <i>Journal of Power Sources</i> , 2013, 236, 87-94.	4.0	88
165	A Combined Theoretical and Experimental Study of the Influence of Different Anion Ratios on Lithium Ion Dynamics in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7367-7375.	1.2	88
166	Nanostructured Na-ion and Li-ion anodes for battery application: A comparative overview. <i>Nano Research</i> , 2017, 10, 3942-3969.	5.8	88
167	High-Power Na-Ion and K-Ion Hybrid Capacitors Exploiting Cointercalation in Graphite Negative Electrodes. <i>ACS Energy Letters</i> , 2019, 4, 2675-2682.	8.8	88
168	P2-type layered Na _{0.45} Ni _{0.22} Co _{0.11} Mn _{0.66} O ₂ as intercalation host material for lithium and sodium batteries. <i>Electrochimica Acta</i> , 2013, 110, 208-213.	2.6	87
169	Lithium difluoro(oxalato)borate: A promising salt for lithium metal based secondary batteries?. <i>Electrochimica Acta</i> , 2013, 92, 102-107.	2.6	87
170	MnPO ₄ â€Coated Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ for Lithium(â€ion) Batteries with Outstanding Cycling Stability and Enhanced Lithiation Kinetics. <i>Advanced Energy Materials</i> , 2018, 8, 1801573.	10.2	87
171	Effect of water and oxygen traces on the cathodic stability of N-alkyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide. <i>Electrochimica Acta</i> , 2008, 53, 6397-6401.	2.6	86
172	Fluorosulfonyl-(trifluoromethanesulfonyl)imide ionic liquids with enhanced asymmetry. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2565.	1.3	86
173	Mixtures of ionic liquids for low temperature electrolytes. <i>Electrochimica Acta</i> , 2012, 82, 69-74.	2.6	85
174	3D Porous Cuâ€Zn Alloys as Alternative Anode Materials for Liâ€ion Batteries with Superior Low <i>T</i> Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1701706.	10.2	85
175	Carbon coated lithium sulfide particles for lithium battery cathodes. <i>Journal of Power Sources</i> , 2013, 235, 220-225.	4.0	84
176	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
177	Embedding tin nanoparticles in micron-sized disordered carbon for lithium- and sodium-ion anodes. <i>Electrochimica Acta</i> , 2014, 128, 163-171.	2.6	84
178	The influence of interface polarization on the determination of lithium transference numbers of salt in polyethylene oxide electrolytes. <i>Electrochimica Acta</i> , 2013, 114, 21-29.	2.6	83
179	Investigation of different binding agents for nanocrystalline anatase TiO ₂ anodes and its application in a novel, green lithium-ion battery. <i>Journal of Power Sources</i> , 2013, 221, 419-426.	4.0	83
180	Dual-anion ionic liquid electrolyte enables stable Ni-rich cathodes in lithium-metal batteries. <i>Joule</i> , 2021, 5, 2177-2194.	11.7	83

#	ARTICLE	IF	CITATIONS
181	A 400 mAh/g Aerogel-like V_2O_5 Cathode for Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 1998, 145, L73-L74.	1.3	82
182	Physical and electrochemical properties of binary ionic liquid mixtures: $(1-x)$ PYR14TFSI (x) PYR14M14. <i>Electrochimica Acta</i> , 2012, 60, 163-169.	2.6	82
183	The electrochromic process in non-stoichiometric nickel oxide thin film electrodes. <i>Electrochimica Acta</i> , 1992, 37, 1033-1038.	2.6	81
184	Composite $\text{LiFePO}_4/\text{AC}$ high rate performance electrodes for Li-ion capacitors. <i>Journal of Power Sources</i> , 2011, 196, 4136-4142.	4.0	81
185	Percolating networks of TiO_2 nanorods and carbon for high power lithium insertion electrodes. <i>Journal of Power Sources</i> , 2012, 206, 301-309.	4.0	81
186	Water-based synthesis of hydrophobic ionic liquids for high-energy electrochemical devices. <i>Electrochimica Acta</i> , 2013, 96, 124-133.	2.6	81
187	The influence of air and its components on the cathodic stability of N-butyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide. <i>Electrochimica Acta</i> , 2007, 53, 1837-1842.	2.6	80
188	An Alternative Ionic Conductivity Mechanism for Plastic Crystalline Salt-Lithium Salt Electrolyte Mixtures. <i>Advanced Energy Materials</i> , 2012, 2, 1343-1350.	10.2	80
189	LiTFSI Stability in Water and Its Possible Use in Aqueous Lithium-Ion Batteries: pH Dependency, Electrochemical Window and Temperature Stability. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1694-A1700.	1.3	80
190	Carbon-Coated Anatase TiO_2 Nanotubes for Li- and Na-Ion Anodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, A3013-A3020.	1.3	80
191	Aqueous/Nonaqueous Hybrid Electrolyte for Sodium-Ion Batteries. <i>ACS Energy Letters</i> , 2018, 3, 1769-1770.	8.8	80
192	PEO-carbon composite lithium polymer electrolyte. <i>Electrochimica Acta</i> , 2000, 45, 2139-2145.	2.6	78
193	Cu_3P Binary Phosphide: Synthesis via a Wet Mechanochemical Method and Electrochemical Behavior as Negative Electrode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 231-238.	10.2	78
194	New Disorder Mode for TFSI-Anions: The Nonequilibrium, Plastic Crystalline Structure of Et ₄ N TFSI. <i>Inorganic Chemistry</i> , 2006, 45, 1412-1414.	1.9	77
195	Characteristics of Electrochemically Synthesized Polymer Electrodes: VI. Kinetics of the Process of Polypyrrole Oxidation. <i>Journal of the Electrochemical Society</i> , 1989, 136, 3729-3734.	1.3	76
196	Dip-coated silver-doped V_2O_5 xerogels as host materials for lithium intercalation. <i>Solid State Ionics</i> , 1997, 100, 247-258.	1.3	76
197	Physicochemical properties of N-methoxyethyl-N-methylpyrrolidinium ionic liquids with perfluorinated anions. <i>Electrochimica Acta</i> , 2013, 91, 101-107.	2.6	76
198	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

#	ARTICLE	IF	CITATIONS
199	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
200	An Electrochromic Window Based on Li _x WO ₃ /PEO/LiClO ₄ /NiO. <i>Journal of Electrochemical Society</i> , 1989, 136, 3394-3395.	1.3	75
201	Evidence of Bilayer Structure in V ₂ O ₅ Xerogel. <i>Inorganic Chemistry</i> , 2000, 39, 1514-1517.	1.9	75
202	Solution-cast Nafion®/montmorillonite composite membrane with low methanol permeability. <i>Electrochimica Acta</i> , 2005, 50, 2639-2645.	2.6	75
203	Towards High-Performance Aqueous Sodium-Ion Batteries: Stabilizing the Solid/Liquid Interface for NASICON-Type Na ₂ VTi(PO ₄) ₃ using Concentrated Electrolytes. <i>ChemSusChem</i> , 2018, 11, 1382-1389.	3.6	75
204	Overcoming the Interfacial Limitations Imposed by the Solid-Solid Interface in Solid-State Batteries Using Ionic Liquid-Based Interlayers. <i>Small</i> , 2020, 16, e2000279.	5.2	75
205	On the Use of Soft Carbon and Propylene Carbonate-Based Electrolytes in Lithium-Ion Capacitors. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1240-A1245.	1.3	74
206	V ₂ O ₅ Aerogel as a Versatile Cathode Material for Lithium and Sodium Batteries. <i>ChemElectroChem</i> , 2015, 2, 529-537.	1.7	74
207	In-Situ Coating of Li[Ni _{0.33} Mn _{0.33} Co _{0.33}]O ₂ Particles to Enable Aqueous Electrode Processing. <i>ChemSusChem</i> , 2016, 9, 1112-1117.	3.6	74
208	Is the Solid Electrolyte Interphase an Extra-Charge Reservoir in Li-Ion Batteries? <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4570-4576.	4.0	74
209	Understanding the Electrode/Electrolyte Interface Layer on the Li-Rich Nickel Manganese Cobalt Layered Oxide Cathode by XPS. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43166-43179.	4.0	74
210	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
211	Mesoscopic structural organization in triphilic room temperature ionic liquids. <i>Faraday Discussions</i> , 2013, 167, 499.	1.6	73
212	Complementary Strategies Toward the Aqueous Processing of High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Lithium-Ion Cathodes. <i>ChemSusChem</i> , 2018, 11, 562-573.	3.6	70
213	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
214	V ₂ O ₅ xerogel lithium-polymer electrolyte batteries. <i>Journal of Power Sources</i> , 1998, 75, 73-83.	4.0	69
215	Synthesis, Characterization, and Electrochemical Properties of Magnesium Birnessite and Zinc Chalcophanite Prepared by a Low-Temperature Route. <i>Chemistry of Materials</i> , 1999, 11, 949-957.	3.2	69
216	Blending ionic liquids: how physico-chemical properties change. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1784.	1.3	69

#	ARTICLE	IF	CITATIONS
217	New Insights to Self-Aggregation in Ionic Liquid Electrolytes for High-Energy Electrochemical Devices. <i>Advanced Energy Materials</i> , 2011, 1, 274-281.	10.2	69
218	Composite Poly(ethylene oxide) Electrolytes Plasticized by <i>N</i> -Alkyl- <i>N</i> -butylpyrrolidinium Bis(trifluoromethanesulfonyl)imide for Lithium Batteries. <i>ChemSusChem</i> , 2013, 6, 1037-1043.	3.6	69
219	Behavior of Germanium and Silicon Nanowire Anodes with Ionic Liquid Electrolytes. <i>ACS Nano</i> , 2017, 11, 5933-5943.	7.3	69
220	Infrared levels of monomeric uracil in cryogenic matrices. <i>Journal of Molecular Structure</i> , 1984, 116, 49-65.	1.8	68
221	Plastic Phase Transitions in <i>N</i> -Ethyl- <i>N</i> -methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide. <i>Chemistry of Materials</i> , 2006, 18, 934-938.	3.2	68
222	Rechargeable-hybrid-seawater fuel cell. <i>NPG Asia Materials</i> , 2014, 6, e144-e144.	3.8	68
223	High power, solvent-free electrochemical double layer capacitors based on pyrrolidinium dicyanamide ionic liquids. <i>Journal of Power Sources</i> , 2015, 293, 65-70.	4.0	68
224	XAS and electrochemical characterization of lithiated high surface area V ₂ O ₅ aerogels. <i>Solid State Ionics</i> , 1997, 104, 195-204.	1.3	67
225	Secondary Lithium-Ion Battery Anodes: From First Commercial Batteries to Recent Research Activities. <i>Johnson Matthey Technology Review</i> , 2015, 59, 34-44.	0.5	67
226	Performance of Lithium/ V ₂ O ₅ Xerogel Coin Cells. <i>Journal of the Electrochemical Society</i> , 1996, 143, 3473-3477.	1.3	66
227	Ambient Temperature Lithium Polymer Rocking-Chair Batteries. <i>Journal of the Electrochemical Society</i> , 1994, 141, 1405-1408.	1.3	65
228	The importance of "going nano" for high power battery materials. <i>Journal of Power Sources</i> , 2012, 219, 217-222.	4.0	65
229	The Emergence of Aqueous Ammonium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	65
230	Ionic Liquid Electrolytes for Li-Air Batteries: Lithium Metal Cycling. <i>International Journal of Molecular Sciences</i> , 2014, 15, 8122-8137.	1.8	64
231	Considerations about the influence of the structural and electrochemical properties of carbonaceous materials on the behavior of lithium-ion capacitors. <i>Journal of Power Sources</i> , 2014, 266, 250-258.	4.0	64
232	In situ Raman spectroscopy of carbon-coated ZnFe ₂ O ₄ anode material in Li-ion batteries " investigation of SEI growth. <i>Chemical Communications</i> , 2016, 52, 3970-3973.	2.2	64
233	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
234	Ionic liquid electrolytes for high-voltage, lithium-ion batteries. <i>Journal of Power Sources</i> , 2020, 479, 228791.	4.0	64

#	ARTICLE	IF	CITATIONS
235	High loading CuS-based cathodes for all-solid-state lithium sulfur batteries with enhanced volumetric capacity. <i>Energy Storage Materials</i> , 2020, 27, 61-68.	9.5	64
236	A Comparative Review of Electrolytes for Organic-Material-Based Energy Storage Devices Employing Solid Electrodes and Redox Fluids. <i>ChemSusChem</i> , 2020, 13, 2205-2219.	3.6	64
237	Stress and electrochromism induced by Li insertion in crystalline and amorphous V ₂ O ₅ thin film electrodes. <i>Electrochimica Acta</i> , 1993, 38, 1637-1642.	2.6	63
238	Pyrrrolidinium-Based Ionic Liquids Doped with Lithium Salts: How Does Li ⁺ Coordination Affect Its Diffusivity?. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13679-13688.	1.2	63
239	Natural Cellulose: A Green Alternative Binder for High Voltage Electrochemical Double Layer Capacitors Containing Ionic Liquid-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2014, 161, A368-A375.	1.3	63
240	Melting Behavior and Ionic Conductivity in Hydrophobic Ionic Liquids. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1776-1782.	1.1	62
241	Thermally Induced Reactions between Lithiated Nano-Silicon Electrode and Electrolyte for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012, 159, A657-A663.	1.3	62
242	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
243	Highly Stable Quasi-Solid-State Lithium Metal Batteries: Reinforced Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ /Li Interface by a Protection Interlayer. <i>Advanced Energy Materials</i> , 2021, 11, 2101339.	10.2	62
244	An electrochromic window based on polymethyl thiophene and nickel oxide electrodes. <i>Electrochimica Acta</i> , 1991, 36, 837-840.	2.6	61
245	NMR investigations on the lithiation and delithiation of nanosilicon-based anodes for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 349-356.	1.2	61
246	Rational design of new electrolyte materials for electrochemical double layer capacitors. <i>Journal of Power Sources</i> , 2016, 326, 541-548.	4.0	61
247	Aqueous Processing of Na _{0.44} MnO ₂ Cathode Material for the Development of Greener Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34891-34899.	4.0	60
248	Characterization of Nonstoichiometric Nickel Oxide Thin-Film Electrodes. <i>Journal of the Electrochemical Society</i> , 1994, 141, 889-895.	1.3	59
249	Spin-polarized electron transfer in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{ferromagnet} \langle \text{mml:mtext} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:math} \rangle$ Physical Review B, 2014, 90, .	1.3	59
250	A rechargeable sodium-ion battery using a nanostructured Sb ⁺ C anode and P2-type layered Na _{0.6} Ni _{0.22} Fe _{0.11} Mn _{0.66} O ₂ cathode. <i>RSC Advances</i> , 2015, 5, 48928-48934.	1.7	59
251	XAS and electrochemical characterization of lithium intercalated V ₂ O ₅ xerogels. <i>Solid State Ionics</i> , 1996, 90, 5-14.	1.3	58
252	Composites of V ₂ O ₅ Aerogel and Nickel Fiber as High Rate Intercalation Electrodes. <i>Journal of the Electrochemical Society</i> , 1999, 146, 1346-1350.	1.3	58

#	ARTICLE	IF	CITATIONS
253	Ionic liquids in electrochromic devices. <i>Electrochimica Acta</i> , 2007, 52, 4792-4797.	2.6	58
254	Inhibition of Self-Aggregation in Ionic Liquid Electrolytes for High-Energy Electrochemical Devices. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19431-19436.	1.5	58
255	SEI investigations on copper electrodes after lithium plating with Raman spectroscopy and mass spectrometry. <i>Journal of Power Sources</i> , 2013, 233, 110-114.	4.0	58
256	Separators for Li-Ion and Li-Metal Battery Including Ionic Liquid Based Electrolytes Based on the TFSI ⁻ and FSI ⁻ Anions. <i>International Journal of Molecular Sciences</i> , 2014, 15, 14868-14890.	1.8	58
257	Influence of relaxation time on the lifetime of commercial lithium-ion cells. <i>Journal of Power Sources</i> , 2013, 239, 45-53.	4.0	57
258	Temperature dependence of electrochemical properties of cross-linked poly(ethylene oxide)-lithium bis(trifluoromethanesulfonyl)imide-N-butyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide solid polymer electrolytes for lithium batteries. <i>Electrochimica Acta</i> , 2013, 87, 779-787.	2.6	57
259	Cobalt orthosilicate as a new electrode material for secondary lithium-ion batteries. <i>Dalton Transactions</i> , 2014, 43, 15013-15021.	1.6	57
260	Density functional theory screening of gas-treatment strategies for stabilization of high energy-density lithium metal anodes. <i>Journal of Power Sources</i> , 2015, 296, 150-161.	4.0	57
261	Concentrated Ionic-Liquid-Based Electrolytes for High-Voltage Lithium Batteries with Improved Performance at Room Temperature. <i>ChemSusChem</i> , 2019, 12, 4185-4193.	3.6	57
262	Ultra-thick battery electrodes for high gravimetric and volumetric energy density Li-ion batteries. <i>Journal of Power Sources</i> , 2019, 437, 226923.	4.0	57
263	Characterization of PAN-Based Gel Electrolytes. <i>Electrochemical Stability and Lithium Cyclability. Chemistry of Materials</i> , 1994, 6, 538-542.	3.2	56
264	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
265	Ionic conductivity in crystalline-amorphous polymer electrolytes - P(EO) ₆ :LiX phases. <i>Electrochemistry Communications</i> , 2003, 5, 575-578.	2.3	55
266	Enhanced low-temperature lithium storage performance of multilayer graphene made through an improved ionic liquid-assisted synthesis. <i>Journal of Power Sources</i> , 2015, 281, 318-325.	4.0	55
267	Effects of nitrogen doping on the structure and performance of carbon coated Na ₃ V ₂ (PO ₄) ₃ cathodes for sodium-ion batteries. <i>Carbon</i> , 2017, 124, 334-341.	5.4	55
268	X-ray Absorption Spectroscopy Investigation of Lithium-Rich, Cobalt-Poor Layered-Oxide Cathode Material with High Capacity. <i>ChemElectroChem</i> , 2015, 2, 85-97.	1.7	54
269	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>Journal of Power Sources</i> , 2017, 372, 180-187.	4.0	54
270	Optimized hard carbon derived from starch for rechargeable seawater batteries. <i>Carbon</i> , 2018, 129, 564-571.	5.4	54

#	ARTICLE	IF	CITATIONS
271	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
272	Characterization of Sol ⁺ Gel-Synthesized LiFePO ₄ by Multiple Scattering XAFS. <i>Inorganic Chemistry</i> , 2006, 45, 2750-2757.	1.9	53
273	Methacrylate based gel polymer electrolyte for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 225, 157-162.	4.0	53
274	Nickel oxalate dihydrate nanorods attached to reduced graphene oxide sheets as a high-capacity anode for rechargeable lithium batteries. <i>NPG Asia Materials</i> , 2016, 8, e270-e270.	3.8	53
275	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
276	The conductivity of pyrrolidinium and sulfonylimide-based ionic liquids: A combined experimental and computational study. <i>Journal of Power Sources</i> , 2010, 195, 2074-2076.	4.0	52
277	Phase Behavior and Thermal Properties of Ternary Ionic Liquid ⁺ Lithium Salt (IL ⁺ LiX) Electrolytes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6201-6204.	1.5	52
278	Exploring the Ni redox activity in polyanionic compounds as conceivable high potential cathodes for Na rechargeable batteries. <i>NPG Asia Materials</i> , 2017, 9, e370-e370.	3.8	52
279	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
280	Electrochemical intercalation of anions in graphite for high-voltage aqueous zinc battery. <i>Journal of Power Sources</i> , 2020, 449, 227594.	4.0	52
281	Structural characterization of the lithium silicides Li ₁₅ Si ₄ , Li ₁₃ Si ₄ , and Li ₇ Si ₃ using solid state NMR. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6496.	1.3	51
282	Exploring the Low Voltage Behavior of V ₂ O ₅ Aerogel as Intercalation Host for Sodium Ion Battery. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2723-A2728.	1.3	51
283	1D nanobar-like LiNi _{0.4} Co _{0.2} Mn _{0.4} O ₂ as a stable cathode material for lithium-ion batteries with superior long-term capacity retention and high rate capability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15669-15675.	5.2	51
284	Interphase Evolution of a Lithium-Ion/Oxygen Battery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22638-22643.	4.0	50
285	Decoupling effective Li ⁺ ion conductivity from electrolyte viscosity for improved room-temperature cell performance. <i>Journal of Power Sources</i> , 2017, 342, 335-341.	4.0	50
286	Lithium iron oxide as alternative anode for li-ion batteries. <i>Solid State Sciences</i> , 2000, 2, 365-370.	0.8	49
287	Evidence for Reversible Formation of Metallic Cu in Cu _{0.1} V ₂ O ₅ Xerogel Cathodes during Intercalation Cycling of Li ⁺ Ions as Detected by X-Ray Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2001, 148, A768.	1.3	49
288	Perfluoroalkanesulfonylimides and their lithium salts: synthesis and characterisation of intermediates and target compounds. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 243-252.	0.9	49

#	ARTICLE	IF	CITATIONS
289	Electropolymerization of poly(3-methylthiophene) in pyrrolidinium-based ionic liquids for hybrid supercapacitors. <i>Electrochimica Acta</i> , 2008, 53, 7967-7971.	2.6	49
290	Electrochemical Lithiation of Silicon Clathrate-II. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1318-A1322.	1.3	49
291	Non-aqueous semi-solid flow battery based on Na-ion chemistry. P2-type Na _x Ni _{0.22} Co _{0.11} Mn _{0.66} O ₂ NaTi ₂ PO ₄ . <i>Chemical Communications</i> , 2015, 51, 7298-7301.	4.0	49
292	A Long-Life Lithium Ion Battery with Enhanced Electrode/Electrolyte Interface by Using an Ionic Liquid Solution. <i>Chemistry - A European Journal</i> , 2016, 22, 6808-6814.	1.7	49
293	Beneficial effect of propane sultone and tris(trimethylsilyl) borate as electrolyte additives on the cycling stability of the lithium rich nickel manganese cobalt (NMC) oxide. <i>Journal of Power Sources</i> , 2016, 325, 525-533.	4.0	49
294	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
295	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
296	Polyurethane Binder for Aqueous Processing of Li-Ion Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2692-A2698.	1.3	48
297	Evaluation of guar gum-based biopolymers as binders for lithium-ion batteries electrodes. <i>Electrochimica Acta</i> , 2018, 265, 89-97.	2.6	48
298	One-dimensional nanomaterials for energy storage. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 113002.	1.3	48
299	Alloying Reaction Confinement Enables High-Capacity and Stable Anodes for Lithium-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 9511-9519.	7.3	48
300	Prototype rechargeable magnesium batteries using ionic liquid electrolytes. <i>Journal of Power Sources</i> , 2019, 423, 52-59.	4.0	48
301	V2O5 aerogel-like lithium intercalation host. <i>Solid State Ionics</i> , 1999, 116, 279-291.	1.3	47
302	The use of protic ionic liquids with cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10472-10478.	5.2	47
303	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
304	Spin-Coated V2O5 Xerogel Thin Films. 1. Microstructure and Morphology. <i>Chemistry of Materials</i> , 1995, 7, 780-785.	3.2	46
305	Investigation on lithium-polymer electrolyte batteries. <i>Journal of Power Sources</i> , 2001, 97-98, 790-794.	4.0	46
306	Poly(ethylene oxide)-LiN(SO ₂ CF ₃) ₂ Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2002, 149, A891.	1.3	46

#	ARTICLE	IF	CITATIONS
307	Ionic Liquid-Based Electrolytes for High Energy, Safer Lithium Batteries. ACS Symposium Series, 2012, , 67-128.	0.5	46
308	Electrochemical Intercalation of Bis(Trifluoromethanesulfonyl) Imide Anion into Various Graphites for Dual-Ion Cells. ECS Transactions, 2013, 50, 59-68.	0.3	46
309	Development of gas chromatographic methods for the analyses of organic carbonate-based electrolytes. Journal of Power Sources, 2014, 245, 836-840.	4.0	46
310	Manganese silicate hollow spheres enclosed in reduced graphene oxide as anode for lithium-ion batteries. Electrochimica Acta, 2017, 258, 535-543.	2.6	46
311	Connection between Lithium Coordination and Lithium Diffusion in [Pyr₁₂O₁][FTFSI] Ionic Liquid Electrolytes. ChemSusChem, 2018, 11, 1981-1989.	3.6	46
312	Halide-free water-in-salt electrolytes for stable aqueous sodium-ion batteries. Nano Energy, 2020, 77, 105176.	8.2	46
313	Metal-Organic Framework Derived Fe₇S₈ Nanoparticles Embedded in Heteroatom-Doped Carbon with Lithium and Sodium Storage Capability. Small Methods, 2020, 4, 2000637.	4.6	46
314	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
315	Conducting Polymers: New Electrochromic Materials for Advanced Optical Devices. Molecular Crystals and Liquid Crystals, 1993, 229, 97-109.	0.3	45
316	Investigations of natural pyrite in solvent-free polymer electrolyte, lithium metal batteries. Electrochimica Acta, 2004, 49, 3419-3427.	2.6	45
317	Li-ion anodes in air-stable and hydrophobic ionic liquid-based electrolyte for safer and greener batteries. International Journal of Energy Research, 2010, 34, 97-106.	2.2	45
318	SEI Dynamics in Metal Oxide Conversion Electrodes of Li-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 26379-26388.	1.5	45
319	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.	4.0	45
320	Electrochromic NiOxHy, hydrated films: cyclic voltammetry and ac impedance spectroscopy in aqueous electrolyte. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 277, 277-290.	0.3	44
321	Comprehensive Insights into the Thermal Stability, Biodegradability, and Combustion Chemistry of Pyrrolidinium-Based Ionic Liquids. ChemSusChem, 2017, 10, 3146-3159.	3.6	44
322	PEO-LiN(SO₂CF₂CF₃)₂ Polymer Electrolytes. Journal of the Electrochemical Society, 2004, 151, A238.	1.3	43
323	Effect of fillers on the electrochemical and interfacial properties of PEO-LiN(SO₂CF₂CF₃)₂ polymer electrolytes. Electrochimica Acta, 2004, 49, 1605-1612.	2.6	43
324	Ternary polymer electrolytes incorporating pyrrolidinium-imide ionic liquids. RSC Advances, 2015, 5, 13598-13606.	1.7	43

#	ARTICLE	IF	CITATIONS
325	Graphene derived carbon confined sulfur cathodes for lithium-sulfur batteries: Electrochemical impedance studies. <i>Electrochimica Acta</i> , 2016, 214, 129-138.	2.6	43
326	Highlighting the Reversible Manganese Electroactivity in Na ⁺ -Rich Manganese Hexacyanoferrate Material for Li ⁺ - and Na ⁺ -ion Storage. <i>Small Methods</i> , 2020, 4, 1900529.	4.6	43
327	Characterization of PEO-Based Composite Cathodes. I. Morphological, Thermal, Mechanical, and Electrical Properties. <i>Journal of the Electrochemical Society</i> , 2000, 147, 451.	1.3	42
328	Eco-friendly Energy Storage System: Seawater and Ionic Liquid Electrolyte. <i>ChemSusChem</i> , 2016, 9, 42-49.	3.6	42
329	Reducing Capacity and Voltage Decay of Co ²⁺ -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
330	Lithium Phosphonate Functionalized Polymer Coating for High-Energy Li[Ni _{0.8} Co _{0.1} Mn _{0.1} O ₂] with Superior Performance at Ambient and Elevated Temperatures. <i>Advanced Functional Materials</i> , 2021, 31, 2105343.	7.8	42
331	Raman and XPS characterization of vanadium oxide thin films deposited by reactive RF sputtering. <i>Solar Energy Materials and Solar Cells</i> , 1999, 56, 249-258.	3.0	41
332	The use of binary mixtures of 1-butyl-1-methylpyrrolidinium bis((trifluoromethyl)sulfonyl)imide and aliphatic nitrile solvents as electrolyte for supercapacitors. <i>Electrochimica Acta</i> , 2016, 220, 146-155.	2.6	41
333	Characterization of Different Conductive Salts in ACN-Based Electrolytes for Electrochemical Double-Layer Capacitors. <i>ChemElectroChem</i> , 2017, 4, 353-361.	1.7	41
334	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
335	Large-scale stationary energy storage: Seawater batteries with high rate and reversible performance. <i>Energy Storage Materials</i> , 2019, 16, 56-64.	9.5	41
336	Good practice guide for papers on supercapacitors and related hybrid capacitors for the Journal of Power Sources. <i>Journal of Power Sources</i> , 2020, 450, 227636.	4.0	41
337	Assessment on the Use of High Capacity α -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
338	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
339	Polypyrrole-dodecylsulfate: 2 Å ⁻¹ – 104cycles with an organic electrochromic material in a Basic Medium. <i>Advanced Materials</i> , 1990, 2, 480-482.	11.1	40
340	The influence of activated carbon on the performance of lithium iron phosphate based electrodes. <i>Electrochimica Acta</i> , 2012, 76, 130-136.	2.6	40
341	Study of Water-Based Lithium Titanate Electrode Processing: The Role of pH and Binder Molecular Structure. <i>Polymers</i> , 2016, 8, 276.	2.0	40
342	Work Function Evolution in Li Anode Processing. <i>Advanced Energy Materials</i> , 2020, 10, 2000520.	10.2	40

#	ARTICLE	IF	CITATIONS
343	Concentrated Electrolytes Enabling Stable Aqueous Ammonium-ion Batteries. <i>Advanced Materials</i> , 2022, 34, .	11.1	40
344	Nanocomposites of V ₂ O ₅ Aerogel and RuO ₂ as Cathode Materials for Lithium Intercalation. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, A221.	2.2	39
345	4-V flexible all-solid-state lithium polymer batteries. <i>Nano Energy</i> , 2019, 64, 103986.	8.2	39
346	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
347	Assessment and progress of polyanionic cathodes in aqueous sodium batteries. <i>Energy and Environmental Science</i> , 2021, 14, 5788-5800.	15.6	39
348	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2100962.	10.2	39
349	FC vehicle hybridisation: an affordable solution for an energy-efficient FC powered drive train. <i>Journal of Power Sources</i> , 2004, 125, 280-291.	4.0	38
350	Comparison of Solvent-Cast and Hot-Pressed P(EO) ₂₀ LiN(SO ₂ CF ₂ CF ₃) ₂ Polymer Electrolytes Containing Nanosized SiO ₂ . <i>Journal of the Electrochemical Society</i> , 2005, 152, A283.	1.3	38
351	Polymeric ionic liquid nanoparticles as binder for composite Li-ion electrodes. <i>Journal of Power Sources</i> , 2013, 240, 745-752.	4.0	38
352	An Investigation on the Use of a Methacrylate-Based Gel Polymer Electrolyte in High Power Devices. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1753-A1758.	1.3	38
353	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
354	A New, High Energy Sn ⁴⁺ C/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
355	Insights into the Effect of Iron and Cobalt Doping on the Structure of Nanosized ZnO. <i>Inorganic Chemistry</i> , 2015, 54, 9393-9400.	1.9	38
356	Artificial Solid Electrolyte Interphases for Lithium Metal Electrodes by Wet Processing: The Role of Metal Salt Concentration and Solvent Choice. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32851-32862.	4.0	38
357	Electrochromism of thin-film nickel oxide electrodes. <i>Solid State Ionics</i> , 1992, 53-56, 520-524.	1.3	37
358	Plasticized carbon electrodes of interest for lithium rocking chair batteries. <i>Journal of Power Sources</i> , 1993, 45, 333-341.	4.0	37
359	Performance of copper-doped V ₂ O ₅ xerogel in coin cell assembly. <i>Journal of Power Sources</i> , 1999, 83, 9-14.	4.0	37
360	Poly(ethylene oxide) LiN(SO ₂ CF ₂ CF ₃) ₂ Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2003, 150, A525.	1.3	37

#	ARTICLE	IF	CITATIONS
361	Improved electrochemical performance of LiMO ₂ (M=Mn, Ni, Co) as Li ₂ MnO ₃ cathode materials in ionic liquid-based electrolyte. <i>Journal of Power Sources</i> , 2013, 239, 490-495.	4.0	37
362	Synthesis and characterization of carbon coated sponge-like tin oxide (SnO _x) films and their application as electrode materials in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 612-619.	5.2	37
363	Physical Chemical Characterization of Binary Mixtures of 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide and Aliphatic Nitrile Solvents as Potential Electrolytes for Electrochemical Energy Storage Applications. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 376-390.	1.0	37
364	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
365	Highly Reversible Sodiation of Tin in Glyme Electrolytes: The Critical Role of the Solid Electrolyte Interphase and Its Formation Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3697-3708.	4.0	37
366	Natural Polymers as Green Binders for High-Loading Supercapacitor Electrodes. <i>ChemSusChem</i> , 2020, 13, 763-770.	3.6	37
367	Crystal engineering of TMPO _x -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
368	Green and low-cost acetate-based electrolytes for the highly reversible zinc anode. <i>Journal of Power Sources</i> , 2021, 485, 229329.	4.0	37
369	Nonfluorinated Ionic Liquid Electrolytes for Lithium Metal Batteries: Ionic Conduction, Electrochemistry, and Interphase Formation. <i>Advanced Energy Materials</i> , 2021, 11, 2003521.	10.2	37
370	A Comparison of the Electrochromic Behavior and the Mechanical Properties of WO ₃ and NiO x Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , 1991, 138, 3182-3186.	1.3	36
371	Characterization of PEO-lithium triflate polymer electrolytes: Conductivity, DSC and Raman Investigations. <i>Ionics</i> , 2002, 8, 36-43.	1.2	36
372	A lithium battery electrolyte based on gelled polyethylene oxide. <i>Solid State Ionics</i> , 2002, 146, 65-72.	1.3	36
373	Thermal phase behaviour of N-alkyl-N-methylpyrrolidinium and piperidinium bis(trifluoromethanesulfonyl)imide salts. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 10377-10390.	0.7	36
374	An Impedimetric Glucose Biosensor Based on Overoxidized Polypyrrole Thin Film. <i>Electroanalysis</i> , 2011, 23, 1134-1141.	1.5	36
375	Anodic stability of aluminum current collectors in an ionic liquid based on the (fluorosulfonyl)(trifluoromethanesulfonyl)imide anion and its implication on high voltage supercapacitors. <i>Electrochemistry Communications</i> , 2014, 38, 117-119.	2.3	36
376	Ionic liquid mixtures with tunable physicochemical properties. <i>Electrochimica Acta</i> , 2015, 151, 599-608.	2.6	36
377	Performance and kinetics of LiFePO ₄ -carbon bi-material electrodes for hybrid devices: A comparative study between activated carbon and multi-walled carbon nanotubes. <i>Journal of Power Sources</i> , 2015, 273, 1016-1022.	4.0	36
378	Boosting the power performance of multilayer graphene as lithium-ion battery anode via unconventional doping with in-situ formed Fe nanoparticles. <i>Scientific Reports</i> , 2016, 6, 23585.	1.6	36

#	ARTICLE	IF	CITATIONS
379	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
380	Influence of the doping ratio and the carbon coating content on the electrochemical performance of Co-doped SnO ₂ for lithium-ion anodes. Electrochimica Acta, 2018, 277, 100-109.	2.6	36
381	Influence of Salt Concentration on the Properties of Sodium-Based Electrolytes. Small Methods, 2019, 3, 1800208.	4.6	36
382	Enhancing the Electrochemical Performance of LiNi _{0.4} Co _{0.2} Mn _{0.4} O ₂ by V ₂ O ₅ /LiV ₃ O ₈ Coating. ACS Applied Materials & Interfaces, 2019, 11, 26994-27003.	4.0	36
383	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
384	A new class of polymer electrolytes based on chain-extended polyepoxides and LiClO ₄ . Electrochimica Acta, 1992, 37, 1559-1564.	2.6	35
385	Polymerizable Ionic Liquid with State of the Art Transport Properties. Journal of Physical Chemistry B, 2013, 117, 10596-10602.	1.2	35
386	Activated Carbon, Carbon Blacks and Graphene Based Nanoplatelets as Active Materials for Electrochemical Double Layer Capacitors: A Comparative Study. Journal of the Electrochemical Society, 2015, 162, A44-A51.	1.3	35
387	The Influence of Cation Structure on the Chemical-Physical Properties of Protic Ionic Liquids. Journal of Physical Chemistry C, 2016, 120, 8525-8533.	1.5	35
388	Low-Polarization Lithium-Oxygen Battery Using [DEME][TFSI] Ionic Liquid Electrolyte. ChemSusChem, 2018, 11, 229-236.	3.6	35
389	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
390	PEO-LiN(SO ₂ CF ₂ CF ₃) ₂ Polymer Electrolytes. Journal of the Electrochemical Society, 2002, 149, A1282.	1.3	34
391	Use of non-conventional electrolyte salt and additives in high-voltage graphite/LiNi _{0.4} Mn _{1.6} O ₄ batteries. Journal of Power Sources, 2013, 238, 17-20.	4.0	34
392	SEI Growth and Depth Profiling on ZFO Electrodes by Soft X-Ray Absorption Spectroscopy. Advanced Energy Materials, 2015, 5, 1500642.	10.2	34
393	Elucidating the Impact of Cobalt Doping on the Lithium Storage Mechanism in Conversion/Alloying-Type Zinc Oxide Anodes. ChemElectroChem, 2016, 3, 1311-1319.	1.7	34
394	Graphite//LiNi _{0.5} Mn _{1.5} O ₄ Cells Based on Environmentally Friendly Made-in-Water Electrodes. ChemSusChem, 2017, 10, 379-386.	3.6	34
395	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
396	Good practice guide for papers on batteries for the Journal of Power Sources. Journal of Power Sources, 2020, 452, 227824.	4.0	34

#	ARTICLE	IF	CITATIONS
397	Enhanced Li ⁺ Transport in Ionic Liquid-Based Electrolytes Aided by Fluorinated Ethers for Highly Efficient Lithium Metal Batteries with Improved Rate Capability. <i>Small Methods</i> , 2021, 5, e2100168.	4.6	34
398	Solid-State Thermo-electrochromic Display. <i>Journal of the Electrochemical Society</i> , 1987, 134, 753-755.	1.3	33
399	Li-Mn-O Aerogels. <i>Electrochemical and Solid-State Letters</i> , 1999, 2, 483.	2.2	33
400	Dynamic heterogeneity in polymer electrolytes. Comparison between QENS data and MD simulations. <i>Physica B: Condensed Matter</i> , 2001, 301, 163-167.	1.3	33
401	Microporous carbonaceous materials prepared from biowaste for supercapacitor application. <i>Electrochimica Acta</i> , 2016, 206, 452-457.	2.6	33
402	Determining Realistic Electrochemical Stability Windows of Electrolytes for Electrical Double-Layer Capacitors. <i>Batteries and Supercaps</i> , 2020, 3, 698-707.	2.4	33
403	Spin coated V ₂ O ₅ XRG as optically passive electrode in laminated electrochromic devices. <i>Solar Energy Materials and Solar Cells</i> , 1995, 39, 167-177.	3.0	32
404	Identification of an Unconventional Zinc Coordination Site in Anhydrous Zn _x V ₂ O ₅ Aerogels from X-ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , 1999, 11, 2257-2264.	3.2	32
405	Effect of nanosized SiO ₂ on the transport properties of solventless P(EO) ₂₀ LIBETI polymer electrolytes: a solid-state NMR study. <i>Solid State Ionics</i> , 2004, 166, 407-415.	1.3	32
406	(Invited) Long-Term Cyclability of Lithium Metal Electrodes in Ionic Liquid-Based Electrolytes at Room Temperature. <i>ECS Transactions</i> , 2010, 25, 127-138.	0.3	32
407	Aging of Li ₂ FeSiO ₄ cathode material in fluorine containing organic electrolytes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2012, 85, 66-71.	2.6	32
408	1-Fluoropropane-2-one as SEI-forming additive for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2012, 16, 41-43.	2.3	32
409	Phase stability of Li-ion conductive, ternary solid polymer electrolytes. <i>Electrochimica Acta</i> , 2013, 113, 181-185.	2.6	32
410	Scaling up "Nano" Li ₄ Ti ₅ O ₁₂ for High-Power Lithium-Ion Anodes Using Large Scale Flame Spray Pyrolysis. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2331-A2338.	1.3	32
411	Combining ionic liquid-based electrolytes and nanostructured anatase TiO ₂ anodes for intrinsically safer sodium-ion batteries. <i>Electrochimica Acta</i> , 2016, 203, 109-116.	2.6	32
412	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. <i>ChemElectroChem</i> , 2017, 4, 1256-1263.	1.7	32
413	Addressing the energy sustainability of biowaste-derived hard carbon materials for battery electrodes. <i>Green Chemistry</i> , 2018, 20, 1527-1537.	4.6	32
414	Unlocking Simultaneously the Temperature and Electrochemical Windows of Aqueous Phthalocyanine Electrolytes. <i>ACS Applied Energy Materials</i> , 2019, 2, 3773-3779.	2.5	32

#	ARTICLE	IF	CITATIONS
415	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
416	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
417	Electrochemical testing of industrially produced PEO-based polymer electrolytes. Journal of Power Sources, 2001, 101, 42-46.	4.0	31
418	A novel ternary polymer electrolyte for LMP batteries based on thermal cross-linked poly(urethane) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2153-2161.	2.6	31
419	Investigation of lithium carbide contamination in battery grade lithium metal. Journal of Power Sources, 2012, 217, 98-101.	4.0	31
420	Water-soluble, triflate-based, pyrrolidinium ionic liquids. Electrochimica Acta, 2013, 99, 108-116.	2.6	31
421	Polyacrylonitrile Block Copolymers for the Preparation of a Thin Carbon Coating Around TiO ₂ Nanorods for Advanced Lithium-Ion Batteries. Macromolecular Rapid Communications, 2013, 34, 1693-1700.	2.0	31
422	Effect of coatings on the green electrode processing and cycling behaviour of LiCoPO ₄ . Journal of Materials Chemistry A, 2016, 4, 17121-17128.	5.2	31
423	Electrochemical performance of a superporous activated carbon in ionic liquid-based electrolytes. Journal of Power Sources, 2016, 336, 419-426.	4.0	31
424	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.	9.5	31
425	Difluorobenzene-Based Locally Concentrated Ionic Liquid Electrolyte Enabling Stable Cycling of Lithium Metal Batteries with Nickel-Rich Cathode. Advanced Energy Materials, 2022, 12, .	10.2	31
426	High Temperature Stable Separator for Lithium Batteries Based on SiO ₂ and Hydroxypropyl Guar Gum. Membranes, 2015, 5, 632-645.	1.4	30
427	Precursor Polymers for the Carbon Coating of Au@ZnO Multipods for Application as Active Material in Lithium-Ion Batteries. Macromolecular Rapid Communications, 2015, 36, 1075-1082.	2.0	30
428	Effect of carbonates fluorination on the properties of LiTFSI-based electrolytes for Li-ion batteries. Electrochimica Acta, 2015, 161, 159-170.	2.6	30
429	Fluorinated Carbamates as Suitable Solvents for LiTFSI-Based Lithium-Ion Electrolytes: Physicochemical Properties and Electrochemical Characterization. Journal of Physical Chemistry C, 2015, 119, 22404-22414.	1.5	30
430	Introducing Highly Redox-Active Atomic Centers into Insertion-Type Electrodes for Lithium-Ion Batteries. Advanced Energy Materials, 2020, 10, 2000783.	10.2	30
431	Reversible Copper Sulfide Conversion in Nonflammable Trimethyl Phosphate Electrolytes for Safe Sodium-Ion Batteries. Small Structures, 2021, 2, 2100035.	6.9	30
432	Alloying of electrodeposited silicon with lithium—a principal study of applicability as anode material for lithium ion batteries. Journal of Solid State Electrochemistry, 2010, 14, 2203-2207.	1.2	29

#	ARTICLE	IF	CITATIONS
433	(Sub)surface-Promoted Disproportionation and Absolute Band Alignment in High-Power LiMn ₂ O ₄ Cathodes. Journal of Physical Chemistry C, 2015, 119, 21358-21368.	1.5	29
434	Influence of oligo(ethylene oxide) substituents on pyrrolidinium-based ionic liquid properties, Li ⁺ solvation and transport. Physical Chemistry Chemical Physics, 2016, 18, 21539-21547.	1.3	29
435	Lithium and Lithium-Ion Batteries: Challenges and Prospects. Electrochemical Society Interface, 2016, 25, 85-87.	0.3	29
436	Ultrafast Ionic Liquid-Assisted Microwave Synthesis of SnO Microflowers and Their Superior Sodium-Ion Storage Performance. ACS Applied Materials & Interfaces, 2017, 9, 26797-26804.	4.0	29
437	Role of Manganese in Lithium- and Manganese-Rich Layered Oxides Cathodes. Journal of Physical Chemistry Letters, 2019, 10, 3359-3368.	2.1	29
438	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
439	Electrochemical characterization of a class of low temperature conducting polymer electrolytes. Electrochimica Acta, 1989, 34, 635-640.	2.6	28
440	Mechanisms of Magnesium Ion Transport in Pyrrolidinium Bis(trifluoromethanesulfonyl)imide-Based Ionic Liquid Electrolytes. Journal of Physical Chemistry C, 2014, 118, 28361-28368.	1.5	28
441	Beneficial effect of boron in layered sodium-ion cathode materials—The example of Na _{2/3} B _{0.11} Mn _{0.89} O ₂ . Journal of Power Sources, 2017, 364, 33-40.	4.0	28
442	A Comparison of Formation Methods for Graphite//LiFePO ₄ Cells. Batteries and Supercaps, 2019, 2, 240-247.	2.4	28
443	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. Angewandte Chemie, 2020, 132, 542-546.	1.6	28
444	Spectroscopic investigations of Li-intercalated V ₂ O ₅ polycrystalline films. Solid State Ionics, 1994, 70-71, 412-416.	1.3	27
445	Carbene Adduct as Overcharge Protecting Agent in Lithium Ion Batteries. Journal of the Electrochemical Society, 2012, 159, A1587-A1590.	1.3	27
446	An ether-functionalised cyclic sulfonium based ionic liquid as an electrolyte for electrochemical double layer capacitors. Journal of Power Sources, 2016, 326, 549-559.	4.0	27
447	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
448	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
449	The unseen evidence of Reduced Ionicity: The elephant in (the) room temperature ionic liquids. Journal of Molecular Liquids, 2021, 324, 115069.	2.3	27
450	Tin-Containing Graphite for Sodium-Ion Batteries and Hybrid Capacitors. Batteries and Supercaps, 2021, 4, 173-182.	2.4	27

#	ARTICLE	IF	CITATIONS
451	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
452	Thin metal oxide films on transparent substrates for Li-insertion devices. <i>Journal of Applied Electrochemistry</i> , 1993, 23, 1187-1195.	1.5	26
453	Laminated Electrochromic Windows Based on Nickel Oxide, Tungsten Oxide, and Gel Electrolytes. <i>Journal of the Electrochemical Society</i> , 1994, 141, 1025-1028.	1.3	26
454	Li-doped N-methoxyethyl-N-methylpyrrolidinium fluorosulfonyl-(trifluoromethanesulfonyl)imide as electrolyte for reliable lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 269, 645-650.	4.0	26
455	Enabling high areal capacitance in electrochemical double layer capacitors by means of the environmentally friendly starch binder. <i>Journal of Power Sources</i> , 2015, 300, 216-222.	4.0	26
456	Aging of Cations of Ionic Liquids Monitored by Ion Chromatography hyphenated to an Electrospray Ionization Mass Spectrometer. <i>Electrochimica Acta</i> , 2015, 176, 1143-1152.	2.6	26
457	Research Update: Hard carbon with closed pores from pectin-free apple pomace waste for Na-ion batteries. <i>APL Materials</i> , 2018, 6, 047501.	2.2	26
458	Crosslinked Water-Soluble Biopolymers as a Binder for High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Graphite Lithium-Ion Full Cells. <i>ChemSusChem</i> , 2020, 13, 2650-2660.	3.6	26
459	Methyl tetrafluoro-2-(methoxy) propionate as co-solvent for propylene carbonate-based electrolytes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 205, 408-413.	4.0	25
460	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
461	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
462	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
463	Unveiling and Amplifying the Benefits of Carbon-Coated Aluminum Current Collectors for Sustainable LiNi _{0.5} Mn _{1.5} O ₄ Cathodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 218-230.	2.5	25
464	Highly Concentrated KTFSl-Glyme Electrolytes for K/Bilayered V ₂ O ₅ Batteries, Batteries and Supercaps, 2020, 3, 261-267.	2.4	25
465	Enhanced performance of lithium polymer batteries using a V ₂ O ₅ -PEG composite cathode. <i>Electrochemistry Communications</i> , 2000, 2, 44-47.	2.3	24
466	0.6Ah Li/V ₂ O ₅ battery prototypes based on solvent-free PEO-LiN(SO ₂ CF ₂ CF ₃) ₂ polymer electrolytes. <i>Journal of Power Sources</i> , 2005, 143, 236-242.	4.0	24
467	Conformations and Vibrational Assignments of the (Fluorosulfonyl)(trifluoromethanesulfonyl)imide Anion in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24206-24212.	1.5	24
468	Probing the characteristics of casein as green binder for non-aqueous electrochemical double layer capacitors' electrodes. <i>Journal of Power Sources</i> , 2016, 326, 672-679.	4.0	24

#	ARTICLE	IF	CITATIONS
469	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
470	Sodium Biphenyl as Anolyte for Sodium-Seawater Batteries. Advanced Functional Materials, 2020, 30, 2001249.	7.8	24
471	New Poly(ethyleneOxide)-Cu(CF ₃ SO ₃) ₂ Polymer Electrolyte. Journal of Polymer Science Part B: Polymer Physics, 1988, 135, 1961-1965.	1.3	23
472	Absorption of polarized X-rays by V ₂ O ₅ -based cathodes for lithium batteries: an application. Electrochimica Acta, 2002, 47, 3163-3169.	2.6	23
473	Specific heat capacity of lithium polymer battery components. Thermochimica Acta, 2003, 402, 219-224.	1.2	23
474	Annealing protocols for pyrrolidinium bis(trifluoromethylsulfonyl)imide type ionic liquids. Electrochimica Acta, 2011, 57, 220-227.	2.6	23
475	Development and Characterization of High-Performance Sodium-Ion Cells based on Layered Oxide and Hard Carbon. ChemElectroChem, 2016, 3, 1124-1132.	1.7	23
476	Understanding problems of lithiated anodes in lithium oxygen full-cells. Journal of Materials Chemistry A, 2016, 4, 10467-10471.	5.2	23
477	Radical Decomposition of Ether-Based Electrolytes for Li-S Batteries. Journal of the Electrochemical Society, 2017, 164, A1812-A1819.	1.3	23
478	From Nanoscale to Microscale: Crossover in the Diffusion Dynamics within Two Pyrrolidinium-Based Ionic Liquids. Journal of Physical Chemistry Letters, 2017, 8, 5196-5202.	2.1	23
479	High energy and high voltage integrated photo-electrochemical double layer capacitor. Sustainable Energy and Fuels, 2018, 2, 968-977.	2.5	23
480	Na ₃ Si ₂ Y _{0.16} Zr _{1.84} 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
481	Ionic Liquid-Based Electrolyte Membranes for Medium-High Temperature Lithium Polymer Batteries. Membranes, 2018, 8, 41.	1.4	23
482	Asymmetric ammonium-based ionic liquids as electrolyte components for safer, high-energy, electrochemical storage devices. Energy Storage Materials, 2019, 18, 1-9.	9.5	23
483	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.	4.0	23
484	The Potential Role of Reactive Metals for a Clean Energy Transition. Advanced Energy Materials, 2020, 10, 2001002.	10.2	23
485	Assessing the Reactivity of Hard Carbon Anodes: Linking Material Properties with Electrochemical Response Upon Sodium and Lithium Storage. Batteries and Supercaps, 2021, 4, 960-977.	2.4	23
486	Working Principle of an Ionic Liquid Interlayer During Pressureless Lithium Stripping on Li _{0.625} Al _{0.25} La ₃ Zr ₂ O ₁₂ (LLZO) Garnet-Type Solid Electrolyte. Batteries and Supercaps, 2021, 4, 1145-1155.	2.4	23

#	ARTICLE	IF	CITATIONS
487	Variation in surface energy and reduction drive of a metal oxide lithium-ion anode with stoichiometry: a DFT study of lithium titanate spinel surfaces. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17180-17192.	5.2	23
488	Ionic Liquids as Electrolyte in Lithium Batteries: In Situ FTIRs Studies on the Use of Electrolyte Additives. <i>ECS Transactions</i> , 2008, 11, 109-114.	0.3	22
489	Thermal Aging of Anions in Ionic Liquids containing Lithium Salts by IC/ESI-MS. <i>Electrochimica Acta</i> , 2014, 130, 426-430.	2.6	22
490	Towards Li(Ni _{0.33} Mn _{0.33} Co _{0.33})O ₂ /graphite batteries with ionic liquid-based electrolytes. I. Electrodes' behavior in lithium half-cells. <i>Journal of Power Sources</i> , 2016, 331, 426-434.	4.0	22
491	Cyano Ester as Solvent for High Voltage Electrochemical Double Layer Capacitors. <i>Electrochimica Acta</i> , 2017, 224, 278-284.	2.6	22
492	Synthesis, Structure, and Sodium Mobility of Sodium Vanadium Nitridophosphate: A Zero-Strain and Safe High Voltage Cathode Material for Sodium-Ion Batteries. <i>Energies</i> , 2017, 10, 889.	1.6	22
493	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
494	Probing the 3-step Lithium Storage Mechanism in CH ₃ NH ₃ PbBr ₃ Perovskite Electrode by <i>in situ</i> XRD Analysis. <i>ChemElectroChem</i> , 2019, 6, 456-460.	1.7	22
495	A novel phosphonium ionic liquid electrolyte enabling high-voltage and high-energy positive electrode materials in lithium-metal batteries. <i>Energy Storage Materials</i> , 2021, 42, 826-835.	9.5	22
496	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
497	Zinc-Ion Hybrid Supercapacitors Employing Acetate-Based Water-in-Salt Electrolytes. <i>Small</i> , 2022, 18, .	5.2	22
498	Highly conductive solid polymer electrolyte for smart windows. <i>Polymer</i> , 1994, 35, 3592-3597.	1.8	21
499	Electrosynthesis of poly(o-phenylenediamine) in a room temperature ionic liquid. <i>Electrochemistry Communications</i> , 2007, 9, 2037-2040.	2.3	21
500	(Invited) LiFSI-PYR1AFSI Binary Electrolyte Mixtures for Lithium Batteries. <i>ECS Transactions</i> , 2009, 25, 49-60.	0.3	21
501	SEI-forming mechanism of 1-Fluoropropane-2-one in lithium-ion batteries. <i>Electrochimica Acta</i> , 2012, 81, 161-165.	2.6	21
502	Multiple points of view of heteronuclear NOE: Long range vs short range contacts in pyrrolidinium based ionic liquids in the presence of Li salts. <i>Journal of Molecular Liquids</i> , 2015, 210, 215-222.	2.3	21
503	The Effect of 1-Pentylamine as Solid Electrolyte Interphase Precursor on Lithium Metal Anodes. <i>Electrochimica Acta</i> , 2017, 240, 408-414.	2.6	21
504	An Alternative Charge-Storage Mechanism for High-Performance Sodium-Ion and Potassium-Ion Anodes. <i>ACS Energy Letters</i> , 2021, 6, 915-924.	8.8	21

#	ARTICLE	IF	CITATIONS
505	Embedding Heterostructured MnS/MnO Nanoparticles in N -Doped Carbonaceous Porous Framework as High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2021, 8, 918-927.	1.7	21
506	Ionic Liquid-based Electrolytes for Li Metal/Air Batteries: A Review of Materials and the New 'LABOHR' Flow Cell Concept. <i>Journal of Electrochemical Science and Technology</i> , 2014, 5, 37-44.	0.9	21
507	Raman spectroscopic investigations of Li-intercalated V_2O_5 xerogel. <i>Journal of Non-Crystalline Solids</i> , 1996, 208, 89-98.	1.5	20
508	Improved Performance of VO_x -Coated Li-Rich NMC Electrodes. <i>ChemElectroChem</i> , 2015, 2, 1768-1773.	1.7	20
509	Local Structure and Stability of SEI in Graphite and ZFO Electrodes Probed by As K-Edge Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4287-4295.	1.5	20
510	Portable High Voltage Integrated Harvesting-Storage Device Employing Dye-Sensitized Solar Module and All-Solid-State Electrochemical Double Layer Capacitor. <i>Frontiers in Chemistry</i> , 2018, 6, 443.	1.8	20
511	In Situ Investigation of Layered Oxides with Mixed Structures for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900239.	4.6	20
512	Glyme-Based Electrolyte for Na/Bilayered- V_2O_5 Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 2786-2793.	2.5	20
513	Understanding the Role of Nanoparticles in PEO-Based Hybrid Polymer Electrolytes for Solid-State Lithium-Ion Polymer Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27907-27915.	1.5	20
514	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
515	Electrolyte Measures to Prevent Polysulfide Shuttle in Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	20
516	Radio-Frequency Reactively Sputtered VO_x Thin Films Deposited at Different Oxygen Flows. <i>Journal of the Electrochemical Society</i> , 1998, 145, 706-711.	1.3	19
517	Electrochemical and synchrotron XAS studies of lithium intercalation into vanadium pentoxide aerogels and nanocomposites. <i>Journal of Power Sources</i> , 2001, 97-98, 469-472.	4.0	19
518	Magnetic resonance studies of chemically intercalated $\text{Li}_x\text{V}_2\text{O}_5$ ($x=1.16$ and 1.48). <i>Solid State Ionics</i> , 2002, 146, 43-54.	1.3	19
519	Enhanced Electrochemical Performance of Graphite Anodes for Lithium-Ion Batteries by Dry Coating with Hydrophobic Fumed Silica. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1849-A1855.	1.3	19
520	Improved lithium-metal/vanadium pentoxide polymer battery incorporating crosslinked ternary polymer electrolyte with N-butyl-N-methylpyrrolidinium bis(perfluoromethanesulfonyl)imide. <i>Journal of Power Sources</i> , 2014, 271, 334-341.	4.0	19
521	A 4 Farad high energy electrochemical double layer capacitor prototype operating at 3.2 V (IES) Tj ETQq1 1 0.784314 rgBT /Overlock	4.0	19
522	Influence of electrochemical cycling on the rheo-impedance of anolytes for Li-based Semi Solid Flow Batteries. <i>Electrochimica Acta</i> , 2017, 251, 388-395.	2.6	19

#	ARTICLE	IF	CITATIONS
523	Iron-Doped ZnO for Lithium-Ion Anodes: Impact of the Dopant Ratio and Carbon Coating Content. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6123-A6130.	1.3	19
524	Evaluation of Carbon-Coated Graphite as a Negative Electrode Material for Li-Ion Batteries. <i>Journal of Carbon Research</i> , 2017, 3, 22.	1.4	19
525	Study of the Na Storage Mechanism in Silicon Oxycarbide—Evidence for Reversible Silicon Redox Activity. <i>Small Methods</i> , 2019, 3, 1800177.	4.6	19
526	Enabling Reversible (De)Lithiation of Aluminum by using Bis(fluorosulfonyl)imide-Based Electrolytes. <i>ChemSusChem</i> , 2019, 12, 208-212.	3.6	19
527	Solvent-Dictated Sodium Sulfur Redox Reactions: Investigation of Carbonate and Ether Electrolytes. <i>Energies</i> , 2020, 13, 836.	1.6	19
528	Lithium-ion batteries for hearing aid applications. <i>Journal of Power Sources</i> , 2000, 90, 144-152.	4.0	18
529	Novel polymeric systems for lithium ion batteries gel electrolytes. <i>Electrochimica Acta</i> , 2005, 50, 4396-4404.	2.6	18
530	Asymmetry effect of novel per(fluoroalkylsulfonyl)imide anions in pyrrolidinium ionic liquids. <i>RSC Advances</i> , 2013, 3, 17755.	1.7	18
531	Nitrile functionalized silyl ether with dissolved LiTFSI as new electrolyte solvent for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 180, 795-800.	2.6	18
532	The impact of mixtures of protic ionic liquids on the operative temperature range of use of battery systems. <i>Electrochemistry Communications</i> , 2017, 78, 47-50.	2.3	18
533	Composition Modulation of Ionic Liquid Hybrid Electrolyte for 5 V Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42049-42056.	4.0	18
534	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
535	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
536	Deriving Structure-Performance Relations of Chemically Modified Chitosan Binders for Sustainable High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Cathodes. <i>Batteries and Supercaps</i> , 2020, 3, 155-164.	2.4	18
537	Influence of Carbonate-Based Additives on the Electrochemical Performance of Si NW Anodes Cycled in an Ionic Liquid Electrolyte. <i>Nano Letters</i> , 2020, 20, 7011-7019.	4.5	18
538	Tragacanth Gum as Green Binder for Sustainable Water-Processable Electrochemical Capacitor. <i>ChemSusChem</i> , 2021, 14, 356-362.	3.6	18
539	Transport studies of NaPF ₆ carbonate solvents-based sodium ion electrolytes. <i>Electrochimica Acta</i> , 2021, 377, 138062.	2.6	18
540	Improved Rate Capability of Layered Li-Rich Cathode for Lithium Ion Battery by Electrochemical Treatment. <i>ECS Electrochemistry Letters</i> , 2013, 2, A78-A80.	1.9	17

#	ARTICLE	IF	CITATIONS
541	Graphene/V ₂ O ₅ Cryogel Composite As a High-Energy Cathode Material For Lithium-Ion Batteries. ChemElectroChem, 2017, 4, 613-619.	1.7	17
542	Increased Cycling Performance of Li-Ion Batteries by Phosphoric Acid Modified LiNi _{0.5} Mn _{1.5} O ₄ Cathodes in the Presence of LiBOB. International Journal of Electrochemistry, 2019, 2019, 1-7.	2.4	17
543	Amorphous Lithium Sulfide as Lithium-Sulfur Battery Cathode with Low Activation Barrier. Energy Technology, 2019, 7, 1801013.	1.8	17
544	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
545	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
546	Acidic Ionic Liquids Enabling Intermediate Temperature Operation Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 8370-8382.	4.0	17
547	A mismatch electrical conductivity skeleton enables dendrite-free and high stability lithium metal anode. Nano Energy, 2021, 89, 106421.	8.2	17
548	Investigation of the Electrochemical Properties of Polymer-LiX-Ionic Liquid Ternary Systems. Australian Journal of Chemistry, 2007, 60, 47.	0.5	17
549	Guidelines for Air-Stable Lithium/Sodium Layered Oxide Cathodes. , 2022, 4, 1074-1086.		17
550	Long cycle life Li-Mn-O defective spinel electrodes. Journal of Power Sources, 1998, 76, 91-97.	4.0	16
551	XAS investigation on polyvalent cation intercalation in V ₂ O ₅ aerogels. Journal of Synchrotron Radiation, 1999, 6, 743-745.	1.0	16
552	Lithium-Ion Cell Nail Penetration Safety Experiments under Adiabatic Conditions. ECS Transactions, 2014, 61, 87-103.	0.3	16
553	Facile hybridization of Ni@Fe ₂ O ₃ superparticles with functionalized reduced graphene oxide and its application as anode material in lithium-ion batteries. Journal of Colloid and Interface Science, 2016, 478, 155-163.	5.0	16
554	Novel Ternary Polymer Electrolytes Based on Poly(lactic acid) from Sustainable Sources. ChemElectroChem, 2017, 4, 463-467.	1.7	16
555	Water decontamination by polyoxometalate-functionalized 3D-printed hierarchical porous devices. Chemical Communications, 2018, 54, 3018-3021.	2.2	16
556	Electrochemical and structural investigation of transition metal doped V ₂ O ₅ sono-aerogel cathodes for lithium metal batteries. Solid State Ionics, 2018, 319, 46-52.	1.3	16
557	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
558	Partially Oxidized Cellulose grafted with Polyethylene Glycol mono-Methyl Ether (m-PEG) as Electrolyte Material for Lithium Polymer Battery. Carbohydrate Polymers, 2020, 240, 116339.	5.1	16

#	ARTICLE	IF	CITATIONS
559	The Emergence of Aqueous Ammonium-ion Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	16
560	Characterization of poly(ethylene oxide) copper salt polymer electrolytes. <i>Applied Physics A: Solids and Surfaces</i> , 1989, 49, 425-429.	1.4	15
561	Properties and applications of lithium ion-conducting polymers. <i>Solid State Ionics</i> , 1990, 40-41, 375-379.	1.3	15
562	Ionic Liquid Based Electrolytes for High Energy Electrochemical Storage Devices. <i>ECS Transactions</i> , 2006, 1, 67-71.	0.3	15
563	Electrochemical and Thermal Investigations and Al Current Collector Dissolution Studies of Three Di-Lithium Salts in Comparison to LiPF ₆ Containing Electrolytes. <i>Journal of the Electrochemical Society</i> , 2013, 160, A535-A541.	1.3	15
564	Stabilizing nanostructured lithium insertion materials via organic hybridization: A step forward towards high-power batteries. <i>Journal of Power Sources</i> , 2014, 248, 852-860.	4.0	15
565	A Lithium-ion Battery with Enhanced Safety Prepared using an Environmentally Friendly Process. <i>ChemSusChem</i> , 2016, 9, 1290-1298.	3.6	15
566	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. <i>ChemSusChem</i> , 2020, 13, 608-615.	3.6	15
567	Anion exchange membrane electrolyte preserving inverse Ia ₃ d ₂₄ bicontinuous cubic phase: Effect of microdomain morphology on selective ion transport. <i>Journal of Membrane Science</i> , 2020, 605, 118113.	4.1	15
568	Ordered nano-structured mesoporous CMK-8 and other carbonaceous positive electrodes for rechargeable aluminum batteries. <i>Chemical Engineering Journal</i> , 2021, 417, 129131.	6.6	15
569	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
570	Lithium-ion batteries for hearing aid applications: I. Design and performance. <i>Journal of Power Sources</i> , 2000, 89, 29-39.	4.0	14
571	Novel polymeric systems for lithium-ion batteries gel electrolytes. I. Cross-linked polyfluorosilicone. <i>Electrochimica Acta</i> , 2004, 50, 149-158.	2.6	14
572	A multinuclear NMR study of ion transport in P(EO) _n LiBETI complexes. <i>Solid State Ionics</i> , 2005, 176, 1113-1121.	1.3	14
573	The Role of Ionic Liquid in Oxygen Reduction Reaction for Lithium-air Batteries. <i>Electrochimica Acta</i> , 2017, 247, 610-616.	2.6	14
574	Structure rearrangements induced by lithium insertion in metal alloying oxide mixed spinel structure studied by x-ray absorption near-edge spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109172.	1.9	14
575	Evaluation of counter and reference electrodes for the investigation of Ca battery materials. <i>Journal of Power Sources Advances</i> , 2020, 2, 100008.	2.6	14
576	Scalable Synthesis of Microsized, Nanocrystalline Zn _{0.9} Fe _{0.1} O ₄ Secondary Particles and Their Use in Zn _{0.9} Fe _{0.1} O ₄ /LiNi _{0.5} Mn _{1.5} O ₄ Lithium-ion Full Cells. <i>ChemSusChem</i> , 2020, 13, 3504-3513.	3.6	14

#	ARTICLE	IF	CITATIONS
577	Wässrige Hochleistungsbatterien: Herausforderungen und Strategien. <i>Angewandte Chemie</i> , 2021, 133, 608-626.	1.6	14
578	Metal-Organic Framework Derived Copper Chalcogenides-Carbon Composites as High-Rate and Stable Storage Materials for Na Ions. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	14
579	Characteristics of a poly(ethylene oxide)-LiBF ₄ polymer electrolyte. <i>Journal of Applied Electrochemistry</i> , 1988, 18, 401-404.	1.5	13
580	The role of conductive carbon in PEO-based composite cathodes. <i>European Polymer Journal</i> , 2001, 37, 65-69.	2.6	13
581	Li/air Flow Battery Employing Ionic Liquid Electrolytes. <i>Energy Technology</i> , 2016, 4, 85-89.	1.8	13
582	Performance and Ageing Robustness of Graphite/NMC Pouch Prototypes Manufactured through Eco-Friendly Materials and Processes. <i>ChemSusChem</i> , 2017, 10, 3581-3587.	3.6	13
583	A multiple electrolyte concept for lithium-metal batteries. <i>Solid State Ionics</i> , 2018, 316, 66-74.	1.3	13
584	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
585	Redox-Mediated Red-Phosphorous Semi-Liquid Anode Enabling Metal-Free Rechargeable Na-Seawater Batteries with High Energy Density. <i>Advanced Energy Materials</i> , 2021, 11, 2102061.	10.2	13
586	Toward more environmentally friendly routes to high purity ionic liquids. <i>MRS Bulletin</i> , 2013, 38, 540-547.	1.7	12
587	New Electrode and Electrolyte Configurations for Lithium-Oxygen Battery. <i>Chemistry - A European Journal</i> , 2018, 24, 3178-3185.	1.7	12
588	Cathode-Electrolyte Interphase in a LiTFSI/Tetraglyme Electrolyte Promoting the Cyclability of V ₂ O ₅ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54782-54790.	4.0	12
589	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
590	Photo-Cross-Linked Single-Ion Conducting Polymer Electrolyte for Lithium-Metal Batteries. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100820.	2.0	12
591	Stress changes in electrochromic thin film electrodes. <i>Solar Energy Materials and Solar Cells</i> , 1999, 56, 213-221.	3.0	11
592	Co-continuous Polymer Blend Based Lithium-Ion Conducting Gel-Polymer Electrolytes. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, A124.	2.2	11
593	Structural and dynamical characterization of melt PEO-salt mixtures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 304, 308-313.	1.2	11
594	Solvent-free, PYR1ATFSI Ionic Liquids-based Ternary Polymer Electrolyte Systems. II. Battery Tests. <i>ECS Transactions</i> , 2008, 11, 119-129.	0.3	11

#	ARTICLE	IF	CITATIONS
595	Mixtures of Ionic Liquid in Combination with Graphite Electrodes: The Role of Electrolyte Additives and Li-salt. ECS Transactions, 2009, 16, 45-49.	0.3	11
596	Crystalline Complexes of Pyr ₁₂ O ₁ TFSI-Based Ionic Liquid Electrolytes. Journal of Physical Chemistry C, 2015, 119, 5878-5887.	1.5	11
597	Transforming anatase TiO ₂ nanorods into ultrafine nanoparticles for advanced electrochemical performance. Journal of Power Sources, 2015, 294, 406-413.	4.0	11
598	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
599	Block copolymers as (single-ion conducting) lithium battery electrolytes. Nanotechnology, 2022, 33, 062002.	1.3	11
600	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. ChemSusChem, 2022, 15, .	3.6	11
601	Ionic Conductivity of C ₆₀ -Based Solid Electrolyte. Fullerenes, Nanotubes, and Carbon Nanostructures, 1998, 6, 227-242.	0.6	10
602	Synthesis of a bicontinuous electrically conductive nanocomposite via in-situ formation of RuO ₂ nanoparticles. Solid State Ionics, 2001, 139, 211-218.	1.3	10
603	Segmental dynamics in polymer electrolytes. Applied Physics A: Materials Science and Processing, 2002, 74, s493-s495.	1.1	10
604	Lithium-ion batteries (LIBs) for medium- and large-scale energy storage: ., 2015, , 125-211.		10
605	“Double-Salt” Electrolytes for High Voltage Electrochemical Double-Layer Capacitors. Journal of Solution Chemistry, 2015, 44, 528-537.	0.6	10
606	Electrochemical Study of a CuO “Carbon Conversion Anode in Ionic Liquid Electrolyte for Application in Li-Ion Batteries. Energy Technology, 2016, 4, 700-705.	1.8	10
607	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. Journal of Solid State Electrochemistry, 2022, 26, 97-102.	1.2	10
608	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
609	Cravure “Printed Conversion/Alloying Anodes for Lithium-Ion Batteries. Energy Technology, 2021, 9, 2100315.	1.8	10
610	Magnetic resonance studies of chemically intercalated Li _x V ₂ O ₅ aerogels. Journal of Applied Physics, 2002, 92, 3839-3852.	1.1	9
611	(Invited) Na-CMC as Possible Binder for LiFePO ₄ /C Composite Electrodes: The Role of the Drying Procedure. ECS Transactions, 2010, 25, 265-270.	0.3	9
612	On the development of activated carbons with high affinity for high voltage propylene carbonate based electrolytes. Journal of Power Sources, 2014, 270, 379-385.	4.0	9

#	ARTICLE	IF	CITATIONS
613	V ₂ O ₅ electrodes with extended cycling ability and improved rate performance using polyacrylic acid as binder. Journal of Power Sources, 2015, 293, 1068-1072.	4.0	9
614	Electrolytes for rechargeable lithium batteries. , 2015, , 73-116.		9
615	Enhanced Cycling Ability of V ₂ O ₅ Aerogel using Room-Temperature Ionic Liquid-Based Electrolytes. ChemElectroChem, 2016, 3, 1048-1053.	1.7	9
616	On the interaction of carbon electrodes and non conventional electrolytes in high-voltage electrochemical capacitors. Journal of Solid State Electrochemistry, 2018, 22, 717-725.	1.2	9
617	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
618	Electrolytes based on N-Butyl-N-methylpyrrolidinium 4,5-dicyano-2-(trifluoromethyl) imidazole for High Voltage Electrochemical Double Layer Capacitors. ChemElectroChem, 2019, 6, 552-557.	1.7	9
619	Structural Investigation of Quaternary Layered Oxides upon Na-Ion Deinsertion. Inorganic Chemistry, 2020, 59, 7408-7414.	1.9	9
620	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
621	Quasi-Solid-State Lithium Metal Batteries Using the LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ -LiAlTi Composite Positive Electrode. ACS Applied Materials & Interfaces, 2021, 13, 53810-53817.		
622	Elucidating the Role of Microstructure in Thiophosphate Electrolytes – a Combined Experimental and Theoretical Study of Li ₃ PS ₄ . Advanced Science, 2022, 9, e2105234.	5.6	9
623	Layered P ₂ -Na _x Mn _{3/4} Ni _{1/4} O ₂ Cathode Materials For Sodium-Ion Batteries: Synthesis, Electrochemistry and Influence of Ambient Storage. Frontiers in Energy Research, 2022, 10, .	1.2	9
624	The Li _x Ti ₂ S ₂ (Li ⁺)CoO ₂ solid-state rocking chair battery. Journal of Power Sources, 1993, 44, 481-484.	4.0	8
625	New Thin-Layer Solid State Lithium Polymer Batteries. Journal of the Electrochemical Society, 1994, 141, L80-L81.	1.3	8
626	The two-phase battery concept: a new strategy for high performance lithium polymer batteries. Journal of Power Sources, 2001, 97-98, 786-789.	4.0	8
627	(Invited) Greener and Cheaper Batteries Containing Fluorine-Free Binder in Combination with Ionic Liquid Based Electrolytes. ECS Transactions, 2009, 25, 21-25.	0.3	8
628	Lithium ion batteries as key component for energy storage in automotive and stationary applications. , 2011, , .		8
629	Aging of ceramic coated graphitic negative and NCA positive electrodes in commercial lithium-ion battery cells – An ex-situ study of different states of health for identification and quantification of aging influencing parameters. Journal of Energy Storage, 2017, 13, 304-312.	3.9	8
630	Role Platinum Nanoparticles Play in the Kinetic Mechanism of Oxygen Reduction Reaction in Nonaqueous Solvents. Journal of Physical Chemistry C, 2018, 122, 15826-15834.	1.5	8

#	ARTICLE	IF	CITATIONS
631	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
632	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
633	Effect of Applying a Carbon Coating on the Crystal Structure and De-/Lithiation Mechanism of Mn-Doped ZnO Lithium-Ion Anodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030503.	1.3	8
634	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
635	Silver-Doped Vanadium Oxides as Host Materials for Lithium Intercalation. <i>Materials Research Society Symposia Proceedings</i> , 1997, 496, 353.	0.1	7
636	Gelified Co-continuous Polymer Blend System as Polymer Electrolyte for Li Batteries. <i>Journal of the Electrochemical Society</i> , 2004, 151, A578.	1.3	7
637	FT-Raman spectroscopy study on the effect of ceramic fillers in P(EO)LiBETI. <i>Solid State Ionics</i> , 2005, 176, 571-577.	1.3	7
638	Synthesis of LiMn ₂ O ₄ with Outstanding Lithium Insertion Kinetics and Long-Term Stability. <i>ChemElectroChem</i> , 2014, 1, 1537-1542.	1.7	7
639	Ionic liquid assisted solid-state synthesis of lithium iron oxide nanoparticles for rechargeable lithium ion batteries. <i>Solid State Ionics</i> , 2015, 280, 37-43.	1.3	7
640	Quaternary Polymer Electrolytes Containing an Ionic Liquid and a Ceramic Filler. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1188-1193.	2.0	7
641	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
642	ZnO-Based Conversion/Alloying Negative Electrodes for Lithium-Ion Batteries: Impact of Mixing Intimacy. <i>Energy Technology</i> , 2021, 9, 2001084.	1.8	7
643	Effect of the Secondary Rutile Phase in Single-Step Synthesized Carbon-Coated Anatase TiO ₂ Nanoparticles as Lithium-Ion Anode Material. <i>Energy Technology</i> , 2021, 9, 2001067.	1.8	7
644	Cycle parameter dependent degradation analysis in automotive lithium-ion cells. <i>Journal of Power Sources</i> , 2021, 506, 230227.	4.0	7
645	Growth mechanism and electrochemical properties of hierarchical hollow SnO ₂ microspheres with a chestnut-morphology. <i>CrystEngComm</i> , 2017, 19, 6454-6463.	1.3	7
646	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
647	Advances and issues in developing intercalation graphite cathodes for aqueous batteries. <i>Materials Today</i> , 2022, 53, 162-172.	8.3	7
648	Laminated electrochromic devices: An emerging technology. <i>Electrochimica Acta</i> , 1992, 37, 1703-1706.	2.6	6

#	ARTICLE	IF	CITATIONS
649	Medical batteries for external medical devices. <i>Journal of Power Sources</i> , 2001, 97-98, 750-754.	4.0	6
650	Ionic Liquid Binary Mixtures for Low Temperature Applications. <i>Advances in Science and Technology</i> , 2010, 72, 315-319.	0.2	6
651	Lithium-ion batteries (LIBs) for medium- and large-scale energy storage. , 2015, , 213-289.		6
652	Association and Diffusion of Li ⁺ in Carboxymethylcellulose Solutions for Environmentally Friendly Li-ion Batteries. <i>ChemSusChem</i> , 2016, 9, 1804-1813.	3.6	6
653	Physicochemical and electrochemical investigations of the ionic liquid N-butyl-N-methyl-pyrrolidinium 4,5-dicyano-2-(trifluoromethyl)imidazole. <i>Electrochimica Acta</i> , 2017, 232, 586-595.	2.6	6
654	Statistic-Driven Proton Transfer Affecting Nanoscopic Organization in an Ethylammonium Nitrate Ionic Liquid and 1,4-Diaminobutane Binary Mixture: A Steamy Pizza Model. <i>Symmetry</i> , 2019, 11, 1425.	1.1	6
655	Soft X-ray Transmission Microscopy on Lithium-Rich Layered-Oxide Cathode Materials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2791.	1.3	6
656	On the nanoscopic structural heterogeneity of liquid <i>n</i> -alkyl carboxylic acids. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20282-20287.	1.3	6
657	Titanium Activation in Prussian Blue Based Electrodes for Na-ion Batteries: A Synthesis and Electrochemical Study. <i>Batteries</i> , 2021, 7, 5.	2.1	6
658	Determination of LiCF ₃ SO ₃ and LiAlO_2 in composite PEO-based polymer electrolytes by flame atomic absorption spectrometry. <i>Talanta</i> , 2001, 55, 35-41.	2.9	5
659	Hybrid Supercapacitors with Ionic Liquid Electrolytes. <i>ECS Transactions</i> , 2006, 1, 55-59.	0.3	5
660	Electrochemical and Physicochemical Properties of PYR14-FSI Based Electrolytes with LiFSI. <i>ECS Transactions</i> , 2009, 16, 51-57.	0.3	5
661	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
662	Initial lithiation of carbon-coated zinc ferrite anodes studied by in-situ X-ray absorption spectroscopy. <i>Radiation Physics and Chemistry</i> , 2020, 175, 108468.	1.4	5
663	Local Interactions Governing the Performances of Lithium- and Manganese-Rich Cathodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1195-1201.	2.1	5
664	Impact of Crystal Density on the Electrochemical Behavior of Lithium-Ion Anode Materials: Exemplary Investigation of (Fe-Doped) GeO ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 8947-8958.	1.5	5
665	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
666	Synergistic Effect of Co and Mn Co-Doping on SnO ₂ Lithium-Ion Anodes. <i>Inorganics</i> , 2022, 10, 46.	1.2	5

#	ARTICLE	IF	CITATIONS
667	Influence of Polymer Backbone Fluorination on the Electrochemical Behavior of Single-Ion Conducting Multiblock Copolymer Electrolytes. ACS Macro Letters, 2022, 11, 982-990.	2.3	5
668	Overview of ENEA's Projects on lithium batteries. Journal of Power Sources, 2001, 97-98, 768-771.	4.0	4
669	Characteristics of Interpenetrated Polymer Network System made of Polyethylene Oxide-LiBF ₄ Complex and Polystyrene as the Electrolyte for Lithium Secondary Battery. Electrochemistry, 2003, 71, 1182-1186.	0.6	4
670	Phase Behavior and Conductivity of Et4NTFSI-LiTFSI Mixtures - A Model System for Ionic Liquid Lithium Battery Electrolytes. ECS Transactions, 2008, 11, 115-118.	0.3	4
671	SECONDARY BATTERIES " LITHIUM RECHARGEABLE SYSTEMS Electrolytes: Ionic Liquids. , 2009, , 85-91.		4
672	Sodium Induced Morphological Changes of Carbon Coated TiO2 Anatase Nanoparticles - High-Performance Materials for Na-Ion Batteries. MRS Advances, 2020, 5, 2221-2229.	0.5	4
673	Investigation of a Fluorine-Free Phosphonium-Based Ionic Liquid Electrolyte and Its Compatibility with Lithium Metal. ACS Applied Materials & Interfaces, 2022, 14, 20888-20895.	4.0	4
674	Cation intercalation in electrochromic NiO x films. , 1991, , .		3
675	Development and Characterization of High-Performance Sodium-Ion Cells based on Layered Oxide and Hard Carbon. ChemElectroChem, 2016, 3, 1030-1030.	1.7	3
676	Influence of the Current Density on the Interfacial Reactivity of Layered Oxide Cathodes for Sodium-Ion Batteries. Energy Technology, 2022, 10, .	1.8	3
677	Enhancing the Interfacial Stability of High-Energy Si/Graphite LiNi _{0.88} Co _{0.09} Mn _{0.03} O ₂ Batteries Employing a Dual-Anion Ionic Liquid-based Electrolyte. Batteries and Supercaps, 2022, 5, .	2.4	3
678	Processing and Properties of Amorphous Manganese Dioxide Formed by Sol-Gel Procedures. Materials Research Society Symposia Proceedings, 1998, 548, 119.	0.1	2
679	Trends in Cathode Materials for Rechargeable Batteries. , 2009, , 315-360.		2
680	Pulsed Electrosynthesis of Polypyrrole in N-Butyl-N-Methyl- Pyrrolidinium Bis(Trifluoromethanesulfonyl)Imide Ionic Liquid for Electrochemical Sensors. ECS Transactions, 2010, 25, 63-71.	0.3	2
681	Ionic Liquid Electrolytes for Safer Lithium Batteries: I. Investigation Around Optimal Formulation. ECS Transactions, 2016, 73, 67-73.	0.3	2
682	Local structure modification in lithium rich layered Li-Mn-O cathode material. Journal of Physics: Conference Series, 2016, 712, 012130.	0.3	2
683	Revisiting the Electrochemical Lithiation Mechanism of Aluminum and the Role of Li-rich Phases (Li _{1+x}) _{Tj} ETQq _{1,1} 0.7843 _{1,4} rgBT _{3,6} ₂	1.1	2
684	Critical Evaluation of the Use of 3D Carbon Networks Enhancing the Long-Term Stability of Lithium Metal Anodes. Frontiers in Materials, 2019, 6, .	1.2	2

#	ARTICLE	IF	CITATIONS
685	Liquid-Assisted Mechanochemical Synthesis of Li-Doped Sulfide Glass Electrolyte. <i>Energy Technology</i> , 2021, 9, 2100385.	1.8	2
686	Silicon anode systems for lithium-ion batteries. , 2022, , 3-46.		2
687	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
688	Recycled Graphite for Sustainable Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 598-598.	0.0	2
689	Electrochromic Properties of Nickel Oxide Electrodes. <i>Materials Research Society Symposia Proceedings</i> , 1990, 210, 57.	0.1	1
690	New Concepts in Primary and Rechargeable Solid State Lithium Polymer Batteries. <i>Materials Research Society Symposia Proceedings</i> , 1994, 369, 495.	0.1	1
691	Overview of Energy/Hydrogen Storage: State-of-the-Art of the Technologies and Prospects for Nanomaterials.. <i>ChemInform</i> , 2004, 35, no.	0.1	1
692	Novel polymeric systems for lithium-ion batteries gel electrolytes. <i>Electrochimica Acta</i> , 2004, 50, 149-158.	2.6	1
693	GREENLION Project: Advanced Manufacturing Processes for Low Cost Greener Li-Ion Batteries. <i>Lecture Notes in Mobility</i> , 2015, , 45-60.	0.2	1
694	Metal Batteries: Bilayered Nanostructured $V_2O_5 \cdot nH_2O$ for Metal Batteries (<i>Adv. Energy Mater.</i> 23/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	10.2	1
695	Eco-friendly Energy Storage System: Seawater and Ionic Liquid Electrolyte. <i>ChemSusChem</i> , 2016, 9, 2-2.	3.6	1
696	Dielectric spectroscopy of Pyr14TFSI and Pyr12O1TFSI ionic liquids. <i>Electrochimica Acta</i> , 2018, 274, 400-405.	2.6	1
697	Lithium Polymer Electrolytes and Batteries. <i>Series on Chemistry, Energy and the Environment</i> , 2018, , 319-364.	0.3	1
698	Effect of Aging-Induced Dioxolane Polymerization on the Electrochemistry of Carbon-Coated Lithium Sulfide. <i>Frontiers in Chemistry</i> , 2019, 7, 893.	1.8	1
699	Sodium Cyclopentadienide as a New Type of Electrolyte for Sodium Batteries. <i>ChemElectroChem</i> , 2021, 8, 365-369.	1.7	1
700	Disclosing the hierarchical structure of ionic liquid mixtures by multiscale computational methods. , 2021, , 1-67.		1
701	Towards the Realization of Aqueous Electrode Processing for Sustainable High-Energy Lithium-Ion Cathodes. <i>ECS Meeting Abstracts</i> , 2018, MA2018-02, 223-223.	0.0	1
702	Combined Role of Biaxial Strain and Nonstoichiometry for the Electronic, Magnetic, and Redox Properties of Lithiated Metal-Oxide Films: The $LiMn_2O_4$ Case. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54610-54619.	4.0	1

#	ARTICLE	IF	CITATIONS
703	(Invited) Greener Supercapacitors: Aqueous Binders and Moisture Tolerant Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 609-609.	0.0	1
704	<title>Optical and mechanical properties of tungsten bronzes: a comparative study of M_xWO_3 with different ions</title>. , 1997, , .		0
705	Processing and Performance of V2O5 Xerogel, Aerogel, and Aerogellike Materials as Lithium Intercalation Hosts. Materials Research Society Symposia Proceedings, 1998, 548, 113.	0.1	0
706	The Reduction of the Irreversible Capacity of Metal Oxide-Based Negative Electrodes for Li-Ion Batteries. Molecular Crystals and Liquid Crystals, 2000, 340, 437-448.	0.3	0
707	Super-pressed and super-cooled (?) P(EO)20LiBETI. Solid State Ionics, 2006, 177, 2687-2690.	1.3	0
708	Hybrid ionic liquid and polymer electrolytes for nanocrystalline dye-sensitized TiO ₂ solar cells. Proceedings of SPIE, 2007, , .	0.8	0
709	Advanced Electrolytic Solutions for Lithium-Ion Batteries Based on Mixtures of Ionic Liquids and Organic Carbonates. ECS Meeting Abstracts, 2010, , .	0.0	0
710	Anodic Dissolution Suppression of the Aluminum Current Collector in High Voltage Stable Electrolytes Containing Lithium Imide Salts. ECS Meeting Abstracts, 2013, , .	0.0	0
711	Frontispiece: New Electrode and Electrolyte Configurations for Lithium-Oxygen Battery. Chemistry - A European Journal, 2018, 24, .	1.7	0
712	Structural Effects of Anomalous Current Densities on Manganese Hexacyanoferrate for Li-Ion Batteries. Applied Sciences (Switzerland), 2020, 10, 7573.	1.3	0
713	Characterization of Ion Association and Solvation in NaPF ₆ Carbonate Electrolytes. ECS Meeting Abstracts, 2021, MA2021-01, 462-462.	0.0	0
714	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
715	(Invited) Environmentally-Friendly Binders for High Power Electrochemical Storage. ECS Meeting Abstracts, 2017, , .	0.0	0
716	Insight into Structure and Transport of the Lithium, Sodium, Magnesium and Zinc Bis(trifluoromethansulfonyl)imide Salts in Ionic Liquids. ECS Meeting Abstracts, 2017, , .	0.0	0
717	Hybrid Solid Electrolyte for All-Solid-State Batteries. ECS Meeting Abstracts, 2017, , .	0.0	0
718	Comprehensive Investigation on the Thermal Stability, Biodegradability and Fire-Induced Hazards of Pyrrolidinium-Based Ionic Liquids. ECS Meeting Abstracts, 2017, , .	0.0	0
719	Influence of Electrolyte Additives and Formation Step Protocol on the Cycling Performance of Half and Full Li-Ion Cells. ECS Meeting Abstracts, 2017, , .	0.0	0
720	(Keynote) Ionic Liquid-Based Electrolytes for Alkali Metal Batteries. ECS Meeting Abstracts, 2017, , .	0.0	0

#	ARTICLE	IF	CITATIONS
721	(Invited) Decoupling Effective Li ⁺ Ion Conductivity from Electrolyte Viscosity for Improved Room-Temperature Cell Performance. ECS Meeting Abstracts, 2017, , .	0.0	0
722	(Invited) Ion Clusters and Li Transport in [Pyr12O1][FTFSI] Ionic Liquid-Based Electrolytes. ECS Meeting Abstracts, 2018, , .	0.0	0
723	(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. ECS Meeting Abstracts, 2018, , .	0.0	0
724	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. ECS Meeting Abstracts, 2018, , .	0.0	0
725	NMR Characterization of the Na ⁺ Ion Transport in Mixed Ionic Liquids Electrolytes. ECS Meeting Abstracts, 2018, , .	0.0	0
726	(Keynote) All-Solid-State Lithium Battery Based on Sulfidic Electrolytes. ECS Meeting Abstracts, 2019, , .	0.0	0
727	Tripling the Energy Density of Insertion-Type Electrode Materials for Rechargeable Alkali-Ion Batteries By Introducing Carefully Selected Dopants. ECS Meeting Abstracts, 2019, , .	0.0	0
728	(Invited) Towards the Realization of Sustainable High-Performance Lithium-Ion Batteries: Aqueous Processing of Cobalt-Free High-Energy Cathodes. ECS Meeting Abstracts, 2019, , .	0.0	0
729	The Effect of Crystalline Structure and Iron Doping on the Electrochemical Behavior of Germanium Oxide Anodes in Lithium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 378-378.	0.0	0
730	Elucidating the Interfacial Reactions for Conversion-Alloying Materials Towards the Realization of High-Performance Lithium-Ion Full-Cells. ECS Meeting Abstracts, 2020, MA2020-01, 449-449.	0.0	0
731	High Mass Loading Copper Sulfide Based Composite Cathodes for All-Solid-State Lithium Sulfur Batteries Enables High Volumetric Capacity. ECS Meeting Abstracts, 2020, MA2020-01, 558-558.	0.0	0
732	Ultra-Stable Performance of Ni-Rich Layered Oxide Cathodes for Lithium-Ion Batteries Using Ionic Liquid Electrolyte. ECS Meeting Abstracts, 2020, MA2020-01, 219-219.	0.0	0
733	Acetate-Based Water-in-Salt Electrolyte for Aqueous Sodium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 568-568.	0.0	0
734	(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
735	Mechanistic Insights into the De-/Lithiation of Iron-Doped Zinc Oxide: From Fundamental Understanding to Practical Considerations. ECS Meeting Abstracts, 2020, MA2020-02, 245-245.	0.0	0
736	(Invited) Mechanistic Study of Sodium Insertion into Bio-Waste Derived Hard Carbon Anode for Sodium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 5-5.	0.0	0
737	Germanium Oxide Negative Electrodes - Tuning Synthesis Conditions Towards High-Energy and High-Power Lithium-Ion Cells. ECS Meeting Abstracts, 2020, MA2020-02, 249-249.	0.0	0
738	High-Performance Lithium-Ion Negative Electrodes Based on Silicon Nanowires/Graphite Composites. ECS Meeting Abstracts, 2020, MA2020-02, 248-248.	0.0	0

#	ARTICLE	IF	CITATIONS
739	(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
740	(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
741	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
742	Tuning Polybenzimidazole Membrane by Immobilizing a Novel Ionic Liquid with Superior Oxygen Reduction Reaction Kinetics. Chemistry of Materials, 2022, 34, 4298-4310.	3.2	0
743	Aluminum Steam Oxidation in the Framework of Long-Term Energy Storage: Experimental Analysis of the Reaction Parameters Effect on Metal Conversion Rate. Energy Technology, 2022, 10, .	1.8	0
744	Evaluation of Counter and Reference Electrodes for the Investigation of Ca Battery Materials. ECS Meeting Abstracts, 2022, MA2022-01, 63-63.	0.0	0
745	Reinforcing the Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ Interfacial Stability By an Ultrathin Multifunctional Polysiloxane-Based Single-Ion Conducting Polymer. ECS Meeting Abstracts, 2022, MA2022-01, 206-206.	0.0	0
746	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
747	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