

# Stefano Passerini

## List of Publications by Year in descending order

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747  
papers

52,191  
citations

807

118  
h-index

3094

187  
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 <sub>6</sub> 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 <sub>0.3</sub> MnO <sub>2</sub> 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 <sub>2</sub> O <sub>4</sub> Nanoparticles for Advanced Lithium-Ion Anodes. <i>Advanced Energy Materials</i> , 2013, 3, 513-523.	10.2	312
20	Anatase TiO <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> O <sub>4</sub> /LiFePO <sub>4</sub> @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 <sub>2</sub> 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 &amp; 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

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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 <sub>2</sub> as Sodium-Ion Anode. <i>Advanced Energy Materials</i> , 2016, 6, 1501489.	10.2	205
43	High Performance Na <sub>0.5</sub> [Ni <sub>0.23</sub> Fe <sub>0.13</sub> Mn <sub>0.63</sub> ]O <sub>2</sub> 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 <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> . <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

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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 <sub>3</sub> SO <sub>2</sub> ] <sub>2</sub> 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 <sub>0.2</sub> Mn <sub>0.56</sub> Ni <sub>0.16</sub> Co <sub>0.08</sub> ]O <sub>2</sub> 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 <sub>4</sub> 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 <sub>2</sub> O <sub>5</sub> Aerogel Intercalation Electrodes. Journal of the Electrochemical Society, 1996, 143, 2099-2104.	1.3	177
64	Solid-state Li/LiFePO <sub>4</sub> 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 <sub>13</sub> FSI and PY <sub>14</sub> 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 <sub>2</sub> O <sub>5</sub> Aerogels. Chemistry of Materials, 1998, 10, 682-684.	3.2	164

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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 &amp; Interfaces</i> , 2015, 7, 5206-5212.	4.0	162
75	Water sensitivity of layered P2/P3-Na <sub>x</sub> Ni <sub>0.22</sub> Co <sub>0.11</sub> Mn <sub>0.66</sub> O <sub>2</sub> 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 &amp; Interfaces</i> , 2016, 8, 16087-16100.	4.0	159
77	Electrochemical performance of a solvent-free hybrid ceramic-polymer electrolyte based on Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> 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 <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> 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

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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 <sub>14</sub> 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 <sup>+</sup> 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 <sub>2</sub> 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 <sup>+</sup> /Zn <sup>2+</sup> Intercalation Chemistry in High-Performance Aqueous Zn/V <sub>2</sub> O <sub>5</sub> Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2979-2986.	8.8	126

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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) <sub>2</sub> /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 <sup>-</sup> 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 <sup>2+</sup> 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 <sub>14</sub> -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 <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> 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

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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 $\text{V}_2\text{O}_5$ 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 $\text{TiO}_2$ (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 $\text{MnS}$ Nanoparticles Embedded in $\text{N}$ -Doped Carbonaceous Mesoporous Frameworks. <i>Advanced Energy Materials</i> , 2019, 9, 1902077.	10.2	108
140	Aerogels and Xerogels of $\text{V}_2\text{O}_5$ 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
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687	Quantification of charge compensation in lithium- and manganese-rich Li-ion cathode materials by x-ray spectroscopies. Materials Today Physics, 2022, 24, 100687.	2.9	2
688	Recycled Graphite for Sustainable Lithium-Ion Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 598-598.	0.0	2
689	Electrochromic Properties of Nickel Oxide Electrodes. Materials Research Society Symposia Proceedings, 1990, 210, 57.	0.1	1
690	New Concepts in Primary and Rechargeable Solid State Lithium Polymer Batteries. Materials Research Society Symposia Proceedings, 1994, 369, 495.	0.1	1
691	Overview of Energy/Hydrogen Storage: State-of-the-Art of the Technologies and Prospects for Nanomaterials.. ChemInform, 2004, 35, no.	0.1	1
692	Novel polymeric systems for lithium-ion batteries gel electrolytes. Electrochimica Acta, 2004, 50, 149-158.	2.6	1
693	GREENLION Project: Advanced Manufacturing Processes for Low Cost Greener Li-Ion Batteries. Lecture Notes in Mobility, 2015, , 45-60.	0.2	1
694	Metal Batteries: Bilayered Nanostructured $V_2O_5 \cdot nH_2O$ for Metal Batteries (Adv. Energy Mater. 23/2016). Advanced Energy Materials, 2016, 6, .	10.2	1
695	Eco-friendly Energy Storage System: Seawater and Ionic Liquid Electrolyte. ChemSusChem, 2016, 9, 2-2.	3.6	1
696	Dielectric spectroscopy of Pyr14TFSI and Pyr12O1TFSI ionic liquids. Electrochimica Acta, 2018, 274, 400-405.	2.6	1
697	Lithium Polymer Electrolytes and Batteries. Series on Chemistry, Energy and the Environment, 2018, , 319-364.	0.3	1
698	Effect of Aging-Induced Dioxolane Polymerization on the Electrochemistry of Carbon-Coated Lithium Sulfide. Frontiers in Chemistry, 2019, 7, 893.	1.8	1
699	Sodium Cyclopentadienide as a New Type of Electrolyte for Sodium Batteries. ChemElectroChem, 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. ECS Meeting Abstracts, 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. ACS Applied Materials & Interfaces, 2021, 13, 54610-54619.	4.0	1

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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 <sub>2</sub> 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 <sub>6</sub> 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

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721	(Invited) Decoupling Effective Li <sup>+</sup> 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 <sub>4</sub> -Coating for Improved Long-Term Performance of Li(Ni <sub>0.4</sub> Co <sub>0.2</sub> Mn <sub>0.4</sub> )O <sub>2</sub> in Ionic Liquid-Based Electrolytes. ECS Meeting Abstracts, 2018, , .	0.0	0
724	Toward Greener Lithium-Ion Batteries: Aqueous Binder-Based LiNi <sub>0.4</sub> Co <sub>0.2</sub> Mn <sub>0.4</sub> O <sub>2</sub> Cathode Material with Superior Electrochemical Performance. ECS Meeting Abstracts, 2018, , .	0.0	0
725	NMR Characterization of the Na <sup>+</sup> 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

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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 <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> 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 <sub>1.3</sub> Al <sub>0.3</sub> Ti <sub>1.7</sub> (PO <sub>4</sub> ) <sub>3</sub> 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 <sub>811</sub> Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 326-326.	0.0	0