

# Xiangming He

## List of Publications by Citations

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266  
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ext. papers

14,547  
ext. citations

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#	Paper	IF	Citations
266	Thermal runaway mechanism of lithium ion battery for electric vehicles: A review. <i>Energy Storage Materials</i> , <b>2018</b> , 10, 246-267	19.4	998
265	Thermal runaway features of large format prismatic lithium ion battery using extended volume accelerating rate calorimetry. <i>Journal of Power Sources</i> , <b>2014</b> , 255, 294-301	8.9	378
264	Crystal orientation tuning of LiFePO <sub>4</sub> nanoplates for high rate lithium battery cathode materials. <i>Nano Letters</i> , <b>2012</b> , 12, 5632-6	11.5	273
263	Nano-structured phosphorus composite as high-capacity anode materials for lithium batteries. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 9034-7	16.4	257
262	Electro-thermal modeling and experimental validation for lithium ion battery. <i>Journal of Power Sources</i> , <b>2012</b> , 199, 227-238	8.9	251
261	Thermal Runaway of Lithium-Ion Batteries without Internal Short Circuit. <i>Joule</i> , <b>2018</b> , 2, 2047-2064	27.8	234
260	Characterization of penetration induced thermal runaway propagation process within a large format lithium ion battery module. <i>Journal of Power Sources</i> , <b>2015</b> , 275, 261-273	8.9	228
259	Mitigating Thermal Runaway of Lithium-Ion Batteries. <i>Joule</i> , <b>2020</b> , 4, 743-770	27.8	216
258	Preparation of PVDF/PIFP microporous membrane for Li-ion batteries by phase inversion. <i>Journal of Membrane Science</i> , <b>2006</b> , 272, 11-14	9.6	204
257	Thermal runaway propagation model for designing a safer battery pack with 25 Ah LiNi Co Mn O <sub>2</sub> large format lithium ion battery. <i>Applied Energy</i> , <b>2015</b> , 154, 74-91	10.7	177
256	An electrochemical-thermal coupled overcharge-to-thermal-runaway model for lithium ion battery. <i>Journal of Power Sources</i> , <b>2017</b> , 364, 328-340	8.9	166
255	Investigating the thermal runaway mechanisms of lithium-ion batteries based on thermal analysis database. <i>Applied Energy</i> , <b>2019</b> , 246, 53-64	10.7	162
254	A 3D thermal runaway propagation model for a large format lithium ion battery module. <i>Energy</i> , <b>2016</b> , 115, 194-208	7.9	160
253	A review of lithium-ion battery safety concerns: The issues, strategies, and testing standards. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 59, 83-99	12	147
252	Expansion and shrinkage of the sulfur composite electrode in rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>2009</b> , 190, 154-156	8.9	140
251	Model-based thermal runaway prediction of lithium-ion batteries from kinetics analysis of cell components. <i>Applied Energy</i> , <b>2018</b> , 228, 633-644	10.7	128
250	Charge/discharge characteristics of sulfurized polyacrylonitrile composite with different sulfur content in carbonate based electrolyte for lithium batteries. <i>Electrochimica Acta</i> , <b>2012</b> , 72, 114-119	6.7	128

249	Using probability density function to evaluate the state of health of lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 232, 209-218	8.9	125
248	Electrodeposition of Sn-Cu alloy anodes for lithium batteries. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 4140-4145	6.7	121
247	A dynamic capacity degradation model and its applications considering varying load for a large format Li-ion battery. <i>Applied Energy</i> , <b>2016</b> , 165, 48-59	10.7	119
246	Internal short circuit detection for battery pack using equivalent parameter and consistency method. <i>Journal of Power Sources</i> , <b>2015</b> , 294, 272-283	8.9	111
245	Recent advances in layered LiNi <sub>x</sub> Co <sub>y</sub> Mn <sub>1-x-y</sub> O <sub>2</sub> cathode materials for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2009</b> , 13, 1157-1164	2.6	109
244	Online State-of-Health Estimation for Li-Ion Battery Using Partial Charging Segment Based on Support Vector Machine. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 8583-8592	6.8	107
243	A comparative investigation of aging effects on thermal runaway behavior of lithium-ion batteries. <i>ETransportation</i> , <b>2019</b> , 2, 100034	12.7	104
242	Design of Red Phosphorus Nanostructured Electrode for Fast-Charging Lithium-Ion Batteries with High Energy Density. <i>Joule</i> , <b>2019</b> , 3, 1080-1093	27.8	102
241	Countersolvent Electrolytes for Lithium-Metal Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903568	21.8	102
240	Characterization of large format lithium ion battery exposed to extremely high temperature. <i>Journal of Power Sources</i> , <b>2014</b> , 272, 457-467	8.9	102
239	Synthesis and characterization of LiNi <sub>0.6</sub> Mn <sub>0.4-x</sub> Co <sub>x</sub> O <sub>2</sub> as cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2009</b> , 189, 28-33	8.9	102
238	In situ prepared nano-crystalline TiO <sub>2</sub> /poly(methyl methacrylate) hybrid enhanced composite polymer electrolyte for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5955	13	101
237	In situ composite of nano SiO <sub>2</sub> /VDF-HFP porous polymer electrolytes for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2005</b> , 51, 1069-1075	6.7	101
236	Revisiting the Corrosion of the Aluminum Current Collector in Lithium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1072-1077	6.4	98
235	Reviewing the current status and development of polymer electrolytes for solid-state lithium batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 33, 188-215	19.4	93
234	Detecting the internal short circuit in large-format lithium-ion battery using model-based fault-diagnosis algorithm. <i>Journal of Energy Storage</i> , <b>2018</b> , 18, 26-39	7.8	88
233	Preparation and characterization of high-density spherical Li <sub>0.97</sub> Cr <sub>0.01</sub> FePO <sub>4</sub> /C cathode material for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2006</b> , 158, 543-549	8.9	86
232	Probing the heat sources during thermal runaway process by thermal analysis of different battery chemistries. <i>Journal of Power Sources</i> , <b>2018</b> , 378, 527-536	8.9	85

231	Investigating the relationship between internal short circuit and thermal runaway of lithium-ion batteries under thermal abuse condition. <i>Energy Storage Materials</i> , <b>2021</b> , 34, 563-573	19.4	82
230	Overcharge behaviors and failure mechanism of lithium-ion batteries under different test conditions. <i>Applied Energy</i> , <b>2019</b> , 250, 323-332	10.7	81
229	Electrochemical properties of MnO <sub>2</sub> nanorods as anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2014</b> , 142, 152-156	6.7	80
228	Analysis of the synthesis process of sulphur/poly(acrylonitrile)-based cathode materials for lithium batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 22077		74
227	Determination of Lithium-Ion Transference Numbers in LiPF <sub>6</sub> /EC Solutions Based on Electrochemical Polarization and NMR Measurements. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, A292	3.9	74
226	Charge/discharge characteristics of sulfur composite cathode materials in rechargeable lithium batteries. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 7372-7376	6.7	74
225	An Exploration of New Energy Storage System: High Energy Density, High Safety, and Fast Charging Lithium Ion Battery. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805978	15.6	69
224	Preparation of co-doped spherical spinel LiMn <sub>2</sub> O <sub>4</sub> cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2005</b> , 150, 216-222	8.9	68
223	Australian aboriginal plant foods: a consideration of their nutritional composition and health implications. <i>Nutrition Research Reviews</i> , <b>1998</b> , 11, 5-23	7	68
222	Composite of graphite/phosphorus as anode for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 289, 100-104	8.9	67
221	Shape control of CoO and LiCoO <sub>2</sub> nanocrystals. <i>Nano Research</i> , <b>2010</b> , 3, 1-7	10	67
220	AlF <sub>3</sub> coating of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> for high-performance Li-ion batteries. <i>Ionics</i> , <b>2011</b> , 17, 671-675	2.7	66
219	Dispersibility of nano-TiO <sub>2</sub> on performance of composite polymer electrolytes for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2013</b> , 111, 674-679	6.7	65
218	Electrochemical performance of SrF <sub>2</sub> -coated LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2009</b> , 190, 149-153	8.9	63
217	LiCoO <sub>2</sub> nanoplates with exposed (001) planes and high rate capability for lithium-ion batteries. <i>Nano Research</i> , <b>2012</b> , 5, 395-401	10	61
216	New Organic Complex for Lithium Layered Oxide Modification: Ultrathin Coating, High-Voltage, and Safety Performances. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 656-665	20.1	59
215	Hard carbon/lithium composite anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 4312-4316	6.7	59
214	Thermal runaway of Lithium-ion batteries employing LiN(SOF)-based concentrated electrolytes. <i>Nature Communications</i> , <b>2020</b> , 11, 5100	17.4	58

213	Electrochemical characteristics of sulfur composite cathode materials in rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>2004</b> , 138, 271-273	8.9	57
212	Graphite as anode materials: Fundamental mechanism, recent progress and advances. <i>Energy Storage Materials</i> , <b>2021</b> , 36, 147-170	19.4	57
211	Hydrothermal synthesis of orthorhombic LiMnO <sub>2</sub> nano-particles and LiMnO <sub>2</sub> nanorods and comparison of their electrochemical performances. <i>Nano Research</i> , <b>2009</b> , 2, 923-930	10	55
210	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1839-1848	20.1	53
209	An Empirical Model for the Design of Batteries with High Energy Density. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 807-816	20.1	52
208	Preparation of mesoporous Ni <sub>2</sub> P nanobelts with high performance for electrocatalytic hydrogen evolution and supercapacitor. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 3697-3704	6.7	51
207	Time Sequence Map for Interpreting the Thermal Runaway Mechanism of Lithium-Ion Batteries With LiNi <sub>x</sub> Co <sub>y</sub> Mn <sub>z</sub> O <sub>2</sub> Cathode. <i>Frontiers in Energy Research</i> , <b>2018</b> , 6,	3.8	51
206	Internal Short Circuit Trigger Method for Lithium-Ion Battery Based on Shape Memory Alloy. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A3038-A3044	3.9	48
205	Facile synthesis of monodisperse Co <sub>3</sub> O <sub>4</sub> mesoporous microdisks as an anode material for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 151, 109-117	6.7	47
204	Preparation of LiCoO <sub>2</sub> cathode materials from spent lithium-ion batteries. <i>Ionics</i> , <b>2009</b> , 15, 111-113	2.7	47
203	Kinetic investigation of sulfurized polyacrylonitrile cathode material by electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 5252-5256	6.7	46
202	Preparation of P(AN/MMA) microporous membrane for Li-ion batteries by phase inversion. <i>Journal of Membrane Science</i> , <b>2006</b> , 280, 6-9	9.6	46
201	Well-ordered spherical LiNi <sub>x</sub> Co <sub>(1-x)</sub> Mn <sub>x</sub> O <sub>2</sub> cathode materials synthesized from cobalt concentration-gradient precursors. <i>Journal of Power Sources</i> , <b>2012</b> , 202, 284-290	8.9	45
200	Hydrothermal synthesis of FeS <sub>2</sub> for lithium batteries. <i>Ionics</i> , <b>2007</b> , 13, 375-377	2.7	45
199	Recent Progress on the Key Materials and Components for Proton Exchange Membrane Fuel Cells in Vehicle Applications. <i>Energies</i> , <b>2016</b> , 9, 603	3.1	44
198	A Coupled Electrochemical-Thermal Failure Model for Predicting the Thermal Runaway Behavior of Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3748-A3765	3.9	44
197	Thermal runaway mechanism of lithium-ion battery with LiNi <sub>0.8</sub> Mn <sub>0.1</sub> Co <sub>0.1</sub> O <sub>2</sub> cathode materials. <i>Nano Energy</i> , <b>2021</b> , 85, 105878	17.1	43
196	Polyimide Binder: A Facile Way to Improve Safety of Lithium Ion Batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 187, 113-118	6.7	42

195	Hierarchical Carbon Nanotube/Carbon Black Scaffolds as Short- and Long-Range Electron Pathways with Superior Li-Ion Storage Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 200-206	8.3	42
194	Effect of Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> composite ceramic layers on performance of polypropylene separator for lithium-ion batteries. <i>Ceramics International</i> , <b>2014</b> , 40, 14105-14110	5.1	42
193	Graphene-coated plastic film as current collector for lithium/sulfur batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 239, 623-627	8.9	42
192	Mechanisms for the evolution of cell variations within a Li <sub>Nix</sub> Co <sub>y</sub> Mn <sub>z</sub> O <sub>2</sub> /graphite lithium-ion battery pack caused by temperature non-uniformity. <i>Journal of Cleaner Production</i> , <b>2018</b> , 205, 447-462	10.3	42
191	Preparation of spherical spinel LiMn <sub>2</sub> O <sub>4</sub> cathode material for Li-ion batteries. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 95, 105-108	4.4	41
190	Preparation of poly(acrylonitrileButyl acrylate) gel electrolyte for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 688-693	6.7	41
189	Solid state synthesis of LiFePO <sub>4</sub> studied by in situ high energy X-ray diffraction. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 5604		40
188	Addition of NH <sub>4</sub> HCO <sub>3</sub> as pore-former in membrane electrode assembly for PEMFC. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 380-384	6.7	40
187	Preparation of Sn <sub>2</sub> Sb alloy encapsulated carbon microsphere anode materials for Li-ion batteries by carbothermal reduction of the oxides. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 1221-1225	6.7	40
186	Key Characteristics for Thermal Runaway of Li-ion Batteries. <i>Energy Procedia</i> , <b>2019</b> , 158, 4684-4689	2.3	37
185	Purification and carbon-film-coating of natural graphite as anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 6006-6011	6.7	37
184	Nanocomposite polymer membrane derived from nano TiO <sub>2</sub> -PMMA and glass fiber nonwoven: high thermal endurance and cycle stability in lithium ion battery applications. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 17697-17703	13	36
183	Surface modification of polyolefin separators for lithium ion batteries to reduce thermal shrinkage without thickness increase. <i>Journal of Energy Chemistry</i> , <b>2015</b> , 24, 138-144	12	36
182	Toward a high-voltage fast-charging pouch cell with TiO <sub>2</sub> cathode coating and enhanced battery safety. <i>Nano Energy</i> , <b>2020</b> , 71, 104643	17.1	36
181	Interfacial compatibility of gel polymer electrolyte and electrode on performance of Li-ion battery. <i>Electrochimica Acta</i> , <b>2013</b> , 114, 527-532	6.7	36
180	TiO <sub>2</sub> coating of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode materials for Li-ion batteries. <i>Ionics</i> , <b>2006</b> , 12, 215-218	2.7	36
179	Structure and electrochemical properties of composite polymer electrolyte based on poly vinylidene fluoridehexafluoropropylene/titania poly(methyl methacrylate) for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 246, 499-504	8.9	35
178	Nano particle LiFePO <sub>4</sub> prepared by solvothermal process. <i>Journal of Power Sources</i> , <b>2013</b> , 244, 94-100	8.9	35

177	A reliable approach of differentiating discrete sampled-data for battery diagnosis. <i>ETransportation</i> , <b>2020</b> , 3, 100051	12.7	34
176	Fusing Phenomenon of Lithium-Ion Battery Internal Short Circuit. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A2738-A2745	3.9	34
175	Advanced structures in electrodeposited tin base anodes for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 7820-7826	6.7	34
174	PEO based polymer-ceramic hybrid solid electrolytes: a review. <i>Nano Convergence</i> , <b>2021</b> , 8, 2	9.2	34
173	Synthesis and characterization of Li(Li <sub>0.23</sub> Mn <sub>0.47</sub> Fe <sub>0.2</sub> Ni <sub>0.1</sub> )O <sub>2</sub> cathode material for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 244, 652-657	8.9	33
172	Solvothermal synthesis of nano LiMn <sub>0.9</sub> Fe <sub>0.1</sub> PO <sub>4</sub> : Reaction mechanism and electrochemical properties. <i>Journal of Power Sources</i> , <b>2014</b> , 253, 143-149	8.9	32
171	The effect of local current density on electrode design for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2012</b> , 207, 127-133	8.9	32
170	Si, Si/Cu core in carbon shell composite as anode material in lithium-ion batteries. <i>Solid State Ionics</i> , <b>2007</b> , 178, 115-118	3.3	32
169	Conformal Hollow Carbon Sphere Coated on Sn <sub>4</sub> P <sub>3</sub> Microspheres as High-Rate and Cycle-Stable Anode Materials with Superior Sodium Storage Capability. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1756-1764	6.1	31
168	Effect of Pore Size Distribution of Carbon Matrix on the Performance of Phosphorus@Carbon Material as Anode for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 4217-4223	8.3	31
167	Nanometer copper <sub>2</sub> Sn alloy anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 2447-2452	6.7	31
166	Comparative study on substitute triggering approaches for internal short circuit in lithium-ion batteries. <i>Applied Energy</i> , <b>2020</b> , 259, 114143	10.7	31
165	Electrochemical activation, voltage decay and hysteresis of Li-rich layered cathode probed by various cobalt content. <i>Electrochimica Acta</i> , <b>2018</b> , 265, 115-120	6.7	30
164	Chemical reduction of nano-scale Cu <sub>2</sub> Sb powders as anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 1538-1541	6.7	30
163	Preparation of spherical spinel LiMn <sub>2</sub> O <sub>4</sub> cathode material for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2005</b> , 9, 438-444	2.6	30
162	Red phosphorus filled biomass carbon as high-capacity and long-life anode for sodium-ion batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 430, 60-66	8.9	29
161	Preparation and performance of silica/polypropylene composite separator for lithium-ion batteries. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 6961-6966	4.3	29
160	Organic polymer material with a multi-electron process redox reaction: towards ultra-high reversible lithium storage capacity. <i>RSC Advances</i> , <b>2013</b> , 3, 3227	3.7	29

159	Nano-Structured Phosphorus Composite as High-Capacity Anode Materials for Lithium Batteries. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 9168-9171	3.6	29
158	Synthesis and Characterization of Sn-Doped LiMn <sub>2</sub> O <sub>4</sub> Cathode Materials for Rechargeable Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, A760	3.9	29
157	Preparation of SnO <sub>2</sub> Microsphere Composite Anode for Lithium-Ion Batteries via Carbothermal Reduction. <i>Electrochemical and Solid-State Letters</i> , <b>2006</b> , 9, A320		29
156	Stannum doping of layered LiNi <sub>3/8</sub> Co <sub>2/8</sub> Mn <sub>3/8</sub> O <sub>2</sub> cathode materials with high rate capability for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2006</b> , 158, 524-528	8.9	29
155	Three-Dimensional Covalent Organic Framework with Topology. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 92-96	16.4	29
154	Synthesis of nano Sb-encapsulated pyrolytic polyacrylonitrile composite for anode material in lithium secondary batteries. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 3651-3653	6.7	28
153	Effect of slurry preparation and dispersion on electrochemical performances of LiFePO <sub>4</sub> composite electrode. <i>Ionics</i> , <b>2011</b> , 17, 473-477	2.7	27
152	Electrochemical performance of SrF <sub>2</sub> -coated LiMn <sub>2</sub> O <sub>4</sub> cathode material for Li-ion batteries. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2007</b> , 17, 1324-1327	3.3	27
151	Morphology evolution and impurity analysis of LiFePO <sub>4</sub> nanoparticles via a solvothermal synthesis process. <i>RSC Advances</i> , <b>2014</b> , 4, 56074-56083	3.7	25
150	Electrochemical characteristics of sulfur composite cathode for reversible lithium storage. <i>Ionics</i> , <b>2009</b> , 15, 477-481	2.7	25
149	Development of cathode-electrolyte-interphase for safer lithium batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 37, 77-86	19.4	25
148	Thermal analysis of sulfurization of polyacrylonitrile with elemental sulfur. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2008</b> , 94, 151-155	4.1	24
147	Improvement in High-voltage Performance of Lithium-ion Batteries Using Bismaleimide as an Electrolyte Additive. <i>Electrochimica Acta</i> , <b>2014</b> , 121, 264-269	6.7	23
146	Synthesis of spherical nano tin encapsulated pyrolytic polyacrylonitrile composite anode material for Li-ion batteries. <i>Solid State Ionics</i> , <b>2007</b> , 178, 833-836	3.3	23
145	Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> coating of spherical Ni(OH) <sub>2</sub> cathode materials for NiMH batteries at elevated temperature. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 4533-4536	6.7	22
144	Controlled crystallization and granulation of nano-scale Ni(OH) <sub>2</sub> cathode materials for high power Ni-MH batteries. <i>Journal of Power Sources</i> , <b>2005</b> , 152, 285-290	8.9	22
143	Recycling of Lignin and Si Waste for Advanced Si/C Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 57055-57063	9.5	21
142	Morphology regulation of nano LiMn <sub>0.9</sub> Fe <sub>0.1</sub> PO <sub>4</sub> by solvothermal synthesis for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2013</b> , 112, 144-148	6.7	21



141	Modification of natural graphite for lithium ion batteries. <i>Solid State Sciences</i> , <b>2008</b> , 10, 612-617	3.4	21
140	Preparation of P(AN-MMA) gel electrolyte for Li-ion batteries. <i>Ionics</i> , <b>2008</b> , 14, 27-31	2.7	21
139	Fluorine doping of spherical spinel LiMnO. <i>Solid State Ionics</i> , <b>2005</b> , 176, 2571-2576	3.3	21
138	Effect of silica nanoparticles/poly(vinylidene fluoride-hexafluoropropylene) coated layers on the performance of polypropylene separator for lithium-ion batteries. <i>Journal of Energy Chemistry</i> , <b>2014</b> , 23, 582-586	12	20
137	Preparation of a microporous polymer electrolyte based on poly(vinyl chloride)/poly(acrylonitrile-butyl acrylate) blend for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 3199-3206	6.7	20
136	Reclaim/recycle of Pt/C catalysts for PEMFC. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 450-453	10.6	20
135	Mesoporous MnCo <sub>2</sub> O <sub>4</sub> microflower constructed by sheets for lithium ion batteries. <i>Materials Letters</i> , <b>2016</b> , 177, 85-88	3.3	20
134	Electrochemical performance of LiMnPO <sub>4</sub> by Fe and Zn co-doping for lithium-ion batteries. <i>Ionics</i> , <b>2015</b> , 21, 667-671	2.7	19
133	ZrO <sub>2</sub> coating of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode materials for Li-ion batteries. <i>Ionics</i> , <b>2009</b> , 15, 493-496	2.7	19
132	A SiBnSb/pyrolytic PAN composite anode for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 7048-7053	6.5	19
131	Charge/discharge characteristics of sulfur composite electrode at different temperature and current density in rechargeable lithium batteries. <i>Ionics</i> , <b>2008</b> , 14, 335-337	2.7	19
130	Hard carbon/Li <sub>2.6</sub> Co <sub>0.4</sub> N composite anode materials for Li-ion batteries. <i>Solid State Ionics</i> , <b>2006</b> , 177, 1331-1334	3.3	19
129	Unlocking the self-supported thermal runaway of high-energy lithium-ion batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 39, 395-402	19.4	19
128	Preparation of V-LiFePO <sub>4</sub> cathode material for Li-ion batteries. <i>Ionics</i> , <b>2012</b> , 18, 59-64	2.7	18
127	A new process of preparing composite microstructure anode for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2008</b> , 184, 532-537	8.9	18
126	Preparation of Cu <sub>6</sub> Sn <sub>5</sub> -Encapsulated Carbon Microsphere Anode Materials for Li-ion Batteries by Carbothermal Reduction of Oxides. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A1859-1863	3.9	18
125	Ytterbium coating of spherical Ni(OH) <sub>2</sub> cathode materials for NiMH batteries at elevated temperature. <i>Journal of Power Sources</i> , <b>2006</b> , 158, 1480-1483	8.9	18
124	Incremental Capacity Analysis on Commercial Lithium-Ion Batteries Using Support Vector Regression: A Parametric Study. <i>Energies</i> , <b>2018</b> , 11, 2323	3.1	18

123	Accelerated lithium-ion conduction in covalent organic frameworks. <i>Chemical Communications</i> , <b>2020</b> , 56, 10465-10468	5.8	17
122	The opportunity of metal organic frameworks and covalent organic frameworks in lithium (ion) batteries and fuel cells. <i>Energy Storage Materials</i> , <b>2020</b> , 33, 360-381	19.4	17
121	In situ observation of thermal-driven degradation and safety concerns of lithiated graphite anode. <i>Nature Communications</i> , <b>2021</b> , 12, 4235	17.4	17
120	Preparation of micro-porous membrane electrodes and their application in preparing anodes of rechargeable lithium batteries. <i>Journal of Membrane Science</i> , <b>2008</b> , 310, 1-6	9.6	16
119	Co <sub>3</sub> Nb Hydroxide Coating of Spherical Ni(OH) <sub>2</sub> Cathode Materials for NiMH Batteries at Elevated Temperatures. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A566	3.9	16
118	Internal short circuit detection method for battery pack based on circuit topology. <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 1502-1511	3.5	16
117	A novel material Li <sub>2</sub> NiFe <sub>2</sub> O <sub>4</sub> : Preparation and performance as anode of lithium ion battery. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 177, 31-39	4.4	15
116	Challenges of Fast Charging for Electric Vehicles and the Role of Red Phosphorous as Anode Material: Review. <i>Energies</i> , <b>2019</b> , 12, 3897	3.1	15
115	Influence of anion species on the morphology of solvothermal synthesized LiMn <sub>0.9</sub> Fe <sub>0.1</sub> PO <sub>4</sub> . <i>Electrochimica Acta</i> , <b>2014</b> , 134, 13-17	6.7	15
114	Preparation of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /LiFePO <sub>4</sub> composite cathode material for lithium ion batteries. <i>Ionics</i> , <b>2013</b> , 19, 1247-1253	2.7	15
113	Synthesis of nanosized Si composite anode material for Li-ion batteries. <i>Ionics</i> , <b>2007</b> , 13, 51-54	2.7	15
112	Sulfur composite cathode materials: comparative characterization of polyacrylonitrile precursor. <i>Ionics</i> , <b>2007</b> , 13, 273-276	2.7	15
111	Synthesis of star macromolecules for solid polymer electrolytes. <i>Ionics</i> , <b>2008</b> , 14, 463-467	2.7	15
110	Urea-assisted solvothermal synthesis of monodisperse multiporous hierarchical micro/nanostructured ZnCo <sub>2</sub> O <sub>4</sub> microspheres and their lithium storage properties. <i>Ionics</i> , <b>2015</b> , 21, 2743-2754 <sup>14</sup>	2.7	14
109	A Facile Consistency Screening Approach to Select Cells with Better Performance Consistency for Commercial 18650 Lithium Ion Cells. <i>International Journal of Electrochemical Science</i> , <b>2017</b> , 10239-10258 <sup>2,2</sup>	2.2	14
108	Strategy for synthesizing spherical LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode material for lithium ion batteries. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 152, 177-182	4.4	14
107	High-Voltage and High-Safety Practical Lithium Batteries with Ethylene Carbonate-Free Electrolyte. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102299	21.8	14
106	Nano-Crystalline LiMnNiO <sub>2</sub> Prepared via Amorphous Complex Precursor and Its Electrochemical Performances as Cathode Material for Lithium-Ion Batteries. <i>Materials</i> , <b>2016</b> , 9,	3.5	14

105	A graphical model for evaluating the status of series-connected lithium-ion battery pack. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 749-766	4.5	14
104	Nitrogen-Doped Carbon for Red Phosphorous Based Anode Materials for Lithium Ion Batteries. <i>Materials</i> , <b>2018</b> , 11,	3.5	13
103	Composite electrospun membranes containing a monodispersed nano-sized TiO <sub>2</sub> @Li <sup>+</sup> single ionic conductor for Li-ion batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 8258-8262	3.7	13
102	A one-pot approach towards FeF <sub>2</sub> @carbon core-shell composite and its application in lithium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 606, 226-230	5.7	13
101	Synthesis of spherical LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode materials for Li-ion batteries. <i>Ionics</i> , <b>2006</b> , 12, 77-80	7	13
100	Rational design of functional binder systems for high-energy lithium-based rechargeable batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 35, 353-377	19.4	13
99	Protecting Al foils for high-voltage lithium-ion chemistries. <i>Materials Today Energy</i> , <b>2018</b> , 7, 18-26	7	13
98	Criterion for Identifying Anodes for Practically Accessible High-Energy-Density Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 3719-3724	20.1	13
97	Thermal-responsive, super-strong, ultrathin firewalls for quenching thermal runaway in high-energy battery modules. <i>Energy Storage Materials</i> , <b>2021</b> , 40, 329-336	19.4	13
96	Significant role of Burned Graphene in determining the morphology of LiNiO <sub>2</sub> prepared under the air conditions. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 240-248	6.7	12
95	Distinctive slit-shaped porous carbon encapsulating phosphorus as a promising anode material for lithium batteries. <i>Ionics</i> , <b>2016</b> , 22, 167-172	2.7	12
94	Macromolecule plasticized interpenetrating structure solid state polymer electrolyte for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2012</b> , 68, 214-219	6.7	12
93	A novel composite anode for LIB prepared via template-like-directed electrodepositing Cu <sub>3</sub> Sn alloy process. <i>Ionics</i> , <b>2008</b> , 14, 113-120	2.7	12
92	Internal short circuit evaluation and corresponding failure mode analysis for lithium-ion batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 61, 269-280	12	12
91	Large-scale synthesis of lithium- and manganese-rich materials with uniform thin-film Al <sub>2</sub> O <sub>3</sub> coating for stable cathode cycling. <i>Science China Materials</i> , <b>2020</b> , 63, 1683-1692	7.1	11
90	Reaction Mechanisms on Solvothermal Synthesis of Nano LiFePO <sub>4</sub> Crystals and Defect Analysis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 10648-10657	3.9	11
89	Battery Internal Short Circuit Detection. <i>ECS Transactions</i> , <b>2017</b> , 77, 217-223	1	11
88	In-situ Coating of Cathode by Electrolyte Additive for High-voltage Performance of Lithium-ion Batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 158, 202-208	6.7	11

87	From separator to membrane: Separators can function more in lithium ion batteries. <i>Electrochemistry Communications</i> , <b>2021</b> , 124, 106948	5.1	11
86	In situ formation of ionically conductive nanointerphase on Si particles for stable battery anode. <i>Science China Chemistry</i> , <b>2021</b> , 64, 1417-1425	7.9	11
85	Boron-doped Ketjenblack based high performances cathode for rechargeable Li <sub>2</sub> batteries. <i>Journal of Energy Chemistry</i> , <b>2016</b> , 25, 131-135	12	11
84	Morphology controllable synthesis of CoMn <sub>2</sub> O <sub>4</sub> structures by adjusting the urea concentration: From microflowers to microspheres. <i>Materials Letters</i> , <b>2016</b> , 168, 166-170	3.3	10
83	Charge rate influence on the electrochemical performance of LiFePO <sub>4</sub> electrode with redox shuttle additive in electrolyte. <i>Ionics</i> , <b>2012</b> , 18, 501-505	2.7	10
82	Three-Dimensional Covalent Organic Frameworks with hea Topology. <i>Chemistry of Materials</i> ,	9.6	10
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80	Confining ultrafine Li <sub>3</sub> P nanoclusters in porous carbon for high-performance lithium-ion battery anode. <i>Nano Research</i> , <b>2020</b> , 13, 1122-1126	10	10
79	In-built ultraconformal interphases enable high-safety practical lithium batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 43, 248-257	19.4	10
78	Corrosion resistance mechanism of chromate conversion coated aluminium current collector in lithium-ion batteries. <i>Corrosion Science</i> , <b>2019</b> , 158, 108100	6.8	9
77	A carbon $\square$ LiFePO <sub>4</sub> nanocomposite as high-performance cathode material for lithium-ion batteries. <i>Ionics</i> , <b>2011</b> , 17, 581-586	2.7	9
76	The electrochemical characteristics of sulfur composite cathode. <i>Ionics</i> , <b>2010</b> , 16, 689-695	2.7	9
75	Suppressing electrolyte-lithium metal reactivity via Li-desolvation in uniform nano-porous separator.. <i>Nature Communications</i> , <b>2022</b> , 13, 172	17.4	9
74	Thickness variation of lithium metal anode with cycling. <i>Journal of Power Sources</i> , <b>2020</b> , 476, 228749	8.9	9
73	Pseudoconcentrated Electrolyte with High Ionic Conductivity and Stability Enables High-Voltage Lithium-Ion Battery Chemistry. <i>ACS Applied Energy Materials</i> , <b>2018</b> ,	6.1	9
72	PVDF-HFP/LiF Composite Interfacial Film to Enhance the Stability of Li-Metal Anodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 7191-7199	6.1	8
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70	Preparation and characterization of Li <sub>1.2</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> Mn <sub>0.54</sub> O <sub>2</sub> cathode materials for lithium-ion battery. <i>Ionics</i> , <b>2014</b> , 20, 301-307	2.7	8

69	Effect of SiO <sub>2</sub> content on performance of polypropylene separator for lithium-ion batteries. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	8
68	Economic and High Performance Phosphorus-Carbon Composite for Lithium and Sodium Storage. <i>ACS Omega</i> , <b>2017</b> , 2, 4440-4446	3.9	8
67	DEVELOPMENT OF COMPACT MINIATURE ANNULAR CENTRIFUGAL CONTACTOR FOR HOT CELL PLACEMENT. <i>Chemical Engineering Communications</i> , <b>2008</b> , 195, 1227-1239	2.2	8
66	Track polypropylene membrane based on irradiation with fragments from fission of uranium. <i>Radiation Measurements</i> , <b>2006</b> , 41, 112-113	1.5	8
65	Ionic limiting molar conductivity calculation of Li-ion battery electrolyte based on mode coupling theory. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 23141-4	3.4	8
64	Oxygen evolution improvement of Ni(OH) <sub>2</sub> by Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> coating at elevated temperature. <i>Journal of Electroanalytical Chemistry</i> , <b>2006</b> , 597, 127-129	4.1	8
63	Simultaneously Blocking Chemical Crosstalk and Internal Short Circuit via Gel-Stretching Derived Nanoporous Non-Shrinkage Separator for Safe Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2021</b> , e2106335 <sup>24</sup>	2.4	8
62	Investigating the thermal runaway features of lithium-ion batteries using a thermal resistance network model. <i>Applied Energy</i> , <b>2021</b> , 295, 117038	10.7	8
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60	Application of Galvanostatic Intermittent Titration Technique to Investigate Phase Transformation of LiFePO <sub>4</sub> Nanoparticles. <i>Electrochimica Acta</i> , <b>2017</b> , 241, 132-140	6.7	7
59	A polymeric composite protective layer for stable Li metal anodes. <i>Nano Convergence</i> , <b>2020</b> , 7, 21	9.2	7
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56	Rapid Synthesis of LiFePO <sub>4</sub> by Coprecipitation. <i>Chemistry Letters</i> , <b>2013</b> , 42, 1191-1193	1.7	7
55	The impact of carbon shell on a Sn <sub>2</sub> composite anode for lithium-ion batteries. <i>Ionics</i> , <b>2010</b> , 16, 503-507	2.7	7
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52	Granulation of nano-scale Ni(OH) <sub>2</sub> cathode materials for high power Ni-MH batteries. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 1879-1883	10.6	6

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50	Cobalt-Free Cathode Materials: Families and their Prospects. <i>Advanced Energy Materials</i> , 2103894	21.8	6
49	Three-dimension hierarchical flower-like Ni <sub>1.5</sub> Co <sub>1.5</sub> O <sub>4</sub> nanostructures composed of two-dimension ultrathin nanosheets as an anode material for lithium ion batteries. <i>Materials Letters</i> , <b>2015</b> , 151, 49-52	3.3	5
48	Influences on power performances of metal oxide additives for LiFePO <sub>4</sub> electrodes. <i>Ionics</i> , <b>2014</b> , 20, 1517-1523	2.7	5
47	Biomass-derived Activated Carbon for Rechargeable Lithium-Sulfur Batteries. <i>BioResources</i> , <b>2014</b> , 10,	1.3	5
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45	Manufacture of anti-bogus label by track-etching technique. <i>Radiation Measurements</i> , <b>2006</b> , 41, 120-122	1.5	5
44	The Synthesis of LiMnFePO <sub>4</sub> /C Cathode Material through Solvothermal Jointed with Solid-State Reaction. <i>Materials</i> , <b>2016</b> , 9,	3.5	5
43	Red phosphorus composite anodes for Li-ion batteries. <i>Ionics</i> , <b>2018</b> , 24, 303-308	2.7	5
42	Trends in a study on thermal runaway mechanism of lithium-ion battery with LiNi <sub>x</sub> Mn <sub>y</sub> Co <sub>1-x-y</sub> O <sub>2</sub> cathode materials <b>2022</b> , 1, 20210011		5
41	Effect of cooling on the structure and electrochemical properties of 0.3Li <sub>2</sub> MnO <sub>3</sub> □ 0.7LiNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> cathode material. <i>Ionics</i> , <b>2015</b> , 21, 1819-1825	2.7	4
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39	Molar conductivity calculation of Li-ion battery electrolyte based on mode coupling theory. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 231105	3.9	4
38	Research Process on Novel Electrolyte of Lithium-ion Battery Based on Lithium Salts. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , <b>2018</b> , 33, 699	1	4
37	Honeycomb-shaped carbon particles prepared from bicycle waste tires for anodes in lithium ion batteries. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 251, 123202	4.4	4
36	Enhanced Structural Stability and Electrochemical Performance of LiNiCoMnO Cathode Materials by Ga Doping. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
35	Correlation between thermal stabilities of nickel-rich cathode materials and battery thermal runaway. <i>International Journal of Energy Research</i> ,	4.5	4
34	A practical approach to predict volume deformation of lithium-ion batteries from crystal structure changes of electrode materials. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 7732-7740	4.5	4

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32	An electrochemical and structural investigation of porous composite anode materials for LIB. <i>Ionic</i> , <b>2012</b> , 18, 11-18	2.7	3
31	Conductance calculation of LiPF <sub>6</sub> in organic solutions based on mean spherical approximation theory. <i>Chemical Physics</i> , <b>2006</b> , 324, 767-770	2.3	3
30	Synthesis of Size-controllable LiFePO <sub>4</sub> /C Cathode Material by Controlled Crystallization. <i>Journal of New Materials for Electrochemical Systems</i> , <b>2012</b> , 15, 75-78	2.8	3
29	Electrochemical Performance of Fe <sub>3</sub> O <sub>4</sub> .33H <sub>2</sub> O/MWCNTs Composite Cathode Synthesized by Solvothermal Process. <i>Journal of New Materials for Electrochemical Systems</i> , <b>2015</b> , 18, 103-109	2.8	3
28	Thermal runaway of lithium-ion batteries employing flame-retardant fluorinated electrolytes. <i>Energy and Environmental Materials</i> ,	13	3
27	One-Step Synthesis of Single-Wall Carbon Nanotube-ZnS Core-Shell Nanocables. <i>Materials</i> , <b>2016</b> , 9,	3.5	3
26	Pry into the thermal and mechanical properties of electrolyte-soaked separators. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 119, 269-276	5.3	3
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24	The significance of detecting imperceptible physical/chemical changes/reactions in lithium-ion batteries: a perspective. <i>Energy and Environmental Science</i> ,	35.4	3
23	Research on simplification of simulating the heat conduction in the lithium-ion battery core <b>2013</b> ,		2
22	Preparation and Performance of Novel Acrylonitrile (AN)-based Copolymer Gel Electrolytes for Lithium Ion Batteries. <i>ECS Transactions</i> , <b>2009</b> , 16, 115-122	1	2
21	Capacity fading of LiCr <sub>0.1</sub> Mn <sub>1.9</sub> O <sub>4</sub> /MPCF cells at elevated temperature. <i>Ionic</i> , <b>2006</b> , 12, 153-157	2.7	2
20	Investigation on Thermal Runaway of Li-Ion Cells Based on LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> . <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2021</b> , 18,	2	2
19	Suppression of lithium dendrite by aramid nanofibrous aerogel separator. <i>Journal of Power Sources</i> , <b>2021</b> , 515, 230608	8.9	2
18	Anodic Stabilities of Various Metals as the Current Collector in High Concentration Electrolytes for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 030509	3.9	2
17	Preparation and Electrochemical Properties of LiNiCoMnO Cathode Material for Lithium-Ion Batteries. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
16	Molecular dynamics simulations of lanthanum oxide surfaces. <i>Ionic</i> , <b>2014</b> , 20, 1111-1116	2.7	1

15	Molecular dynamics simulations of La <sub>2</sub> O <sub>3</sub> thin films on SiO <sub>2</sub> . <i>Journal of Energy Chemistry</i> , <b>2014</b> , 23, 282-286	286	1
14	Preparation of PI Microporous Membrane for Lithium Ion Batteries. <i>Advanced Materials Research</i> , <b>2013</b> , 834-836, 104-107	0.5	1
13	Effect of pressure on the structural properties of Li[Li <sub>0.1</sub> Ni <sub>0.35</sub> Mn <sub>0.55</sub> ]O <sub>2</sub> . <i>AIP Advances</i> , <b>2015</b> , 5, 0471065	65	1
12	Effect of PVP Coating on LiMnBO Cathodes for Li-Ion Batteries. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
11	Benzophenone as indicator detecting lithium metal inside solid state electrolyte. <i>Journal of Power Sources</i> , <b>2021</b> , 492, 229661	8.9	1
10	Nonflammable pseudoconcentrated electrolytes for batteries. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 30, 100783	7.2	1
9	An ionic liquid-present immersion method for preparing cotton fiber-shaped Cu <sub>2</sub> O nanoparticles at room temperature. <i>Journal of Applied Electrochemistry</i> ,1	2.6	1
8	Cobalt-Free Cathode Materials: Families and their Prospects (Adv. Energy Mater. 16/2022). <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2270067	21.8	1
7	Double-salt electrolyte for Li-ion batteries operated at elevated temperatures. <i>Energy Storage Materials</i> , <b>2022</b> , 49, 493-501	19.4	1
6	Thermal runaway modeling of LiNi <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> /graphite batteries under different states of charge. <i>Journal of Energy Storage</i> , <b>2022</b> , 49, 104090	7.8	0
5	Electrochemical deposition of leaf stalk-shaped polyaniline doped with sodium dodecyl sulfate on aluminum and its use as a novel type of current collector in lithium ion batteries. <i>Synthetic Metals</i> , <b>2021</b> , 278, 116837	3.6	0
4	Preparation and Study on Si/Ag/C Composite as Anode Material for Lithium Ion Batteries. <i>Advanced Materials Research</i> , <b>2013</b> , 834-836, 281-284	0.5	
3	A dotted nanowire arrayed by 5nm sized palladium and nickel composite nanoparticles showing significant electrocatalytic activity towards ethanol oxidation reaction (EOR). <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 47, 276-276	6.7	
2	Preparation of CuBr nanoparticles on the surface of the commercial copper foil via a soaking method at room temperature: Its unexpected facilitation to the discharge capacity of the commercial graphite electrode. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 877, 114626	4.1	
1	High-rate performance of LiNi <sub>0.5</sub> Mn <sub>1.45</sub> Al <sub>0.05</sub> O <sub>4</sub> cathode material for lithium-ion batteries. <i>Ionics</i> ,1	2.7	