

Xiangming He

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

266
papers

11,240
citations

55
h-index

95
g-index

285
ext. papers

14,547
ext. citations

7.7
avg, IF

6.76
L-index

#	Paper	IF	Citations
266	Suppressing electrolyte-lithium metal reactivity via Li-desolvation in uniform nano-porous separator.. <i>Nature Communications</i> , 2022 , 13, 172	17.4	9
265	Thermal runaway modeling of LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ /graphite batteries under different states of charge. <i>Journal of Energy Storage</i> , 2022 , 49, 104090	7.8	0
264	Targeted masking enables stable cycling of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ at 4.6V. <i>Nano Energy</i> , 2022 , 96, 107123	7.1	8
263	Trends in a study on thermal runaway mechanism of lithium-ion battery with LiNi _x Mn _y Co _{1-x-y} O ₂ cathode materials 2022 , 1, 20210011		5
262	Cobalt-Free Cathode Materials: Families and their Prospects (Adv. Energy Mater. 16/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270067	21.8	1
261	Double-salt electrolyte for Li-ion batteries operated at elevated temperatures. <i>Energy Storage Materials</i> , 2022 , 49, 493-501	19.4	1
260	Investigation on Thermal Runaway of Li-Ion Cells Based on LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ . <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021 , 18,	2	2
259	A dotted nanowire arrayed by 50nm sized palladium and nickel composite nanoparticles showing significant electrocatalytic activity towards ethanol oxidation reaction (EOR). <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 276-276	6.7	
258	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> , 2021 , e2106335	24	8
257	Suppression of lithium dendrite by aramid nanofibrous aerogel separator. <i>Journal of Power Sources</i> , 2021 , 515, 230608	8.9	2
256	High-Voltage and High-Safety Practical Lithium Batteries with Ethylene Carbonate-Free Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2102299	21.8	14
255	Anodic Stabilities of Various Metals as the Current Collector in High Concentration Electrolytes for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 030509	3.9	2
254	From separator to membrane: Separators can function more in lithium ion batteries. <i>Electrochemistry Communications</i> , 2021 , 124, 106948	5.1	11
253	Benzophenone as indicator detecting lithium metal inside solid state electrolyte. <i>Journal of Power Sources</i> , 2021 , 492, 229661	8.9	1
252	Enhanced Structural Stability and Electrochemical Performance of LiNiCoMnO Cathode Materials by Ga Doping. <i>Materials</i> , 2021 , 14,	3.5	4
251	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. <i>ACS Energy Letters</i> , 2021 , 6, 1839-1848	20.1	53
250	Preparation and Electrochemical Properties of LiNiCoMnO Cathode Material for Lithium-Ion Batteries. <i>Materials</i> , 2021 , 14,	3.5	2

249	Graphite as anode materials: Fundamental mechanism, recent progress and advances. <i>Energy Storage Materials</i> , 2021 , 36, 147-170	19.4	57
248	In situ formation of ionically conductive nanointerphase on Si particles for stable battery anode. <i>Science China Chemistry</i> , 2021 , 64, 1417-1425	7.9	11
247	Development of cathode-electrolyte-interphase for safer lithium batteries. <i>Energy Storage Materials</i> , 2021 , 37, 77-86	19.4	25
246	Nonflammable pseudoconcentrated electrolytes for batteries. <i>Current Opinion in Electrochemistry</i> , 2021 , 30, 100783	7.2	1
245	In situ observation of thermal-driven degradation and safety concerns of lithiated graphite anode. <i>Nature Communications</i> , 2021 , 12, 4235	17.4	17
244	Rational design of functional binder systems for high-energy lithium-based rechargeable batteries. <i>Energy Storage Materials</i> , 2021 , 35, 353-377	19.4	13
243	A review of lithium-ion battery safety concerns: The issues, strategies, and testing standards. <i>Journal of Energy Chemistry</i> , 2021 , 59, 83-99	12	147
242	Three-Dimensional Covalent Organic Framework with Topology. <i>Journal of the American Chemical Society</i> , 2021 , 143, 92-96	16.4	29
241	Investigating the relationship between internal short circuit and thermal runaway of lithium-ion batteries under thermal abuse condition. <i>Energy Storage Materials</i> , 2021 , 34, 563-573	19.4	82
240	PEO based polymer-ceramic hybrid solid electrolytes: a review. <i>Nano Convergence</i> , 2021 , 8, 2	9.2	34
239	Pry into the thermal and mechanical properties of electrolyte-soaked separators. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 119, 269-276	5.3	3
238	Thermal runaway mechanism of lithium-ion battery with LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ cathode materials. <i>Nano Energy</i> , 2021 , 85, 105878	17.1	43
237	Unlocking the self-supported thermal runaway of high-energy lithium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 39, 395-402	19.4	19
236	Investigating the thermal runaway features of lithium-ion batteries using a thermal resistance network model. <i>Applied Energy</i> , 2021 , 295, 117038	10.7	8
235	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> , 2021 , 278, 116837	3.6	0
234	Thermal-responsive, super-strong, ultrathin firewalls for quenching thermal runaway in high-energy battery modules. <i>Energy Storage Materials</i> , 2021 , 40, 329-336	19.4	13
233	Internal short circuit evaluation and corresponding failure mode analysis for lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021 , 61, 269-280	12	12
232	In-built ultraconformal interphases enable high-safety practical lithium batteries. <i>Energy Storage Materials</i> , 2021 , 43, 248-257	19.4	10

231	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> , 2021 , 45, 7732-7740	4.5	4
230	Recycling of Lignin and Si Waste for Advanced Si/C Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57055-57063	9.5	21
229	A polymeric composite protective layer for stable Li metal anodes. <i>Nano Convergence</i> , 2020 , 7, 21	9.2	7
228	Large-scale synthesis of lithium- and manganese-rich materials with uniform thin-film Al ₂ O ₃ coating for stable cathode cycling. <i>Science China Materials</i> , 2020 , 63, 1683-1692	7.1	11
227	In situ preparation of CuCl cubic particles on the commercial copper foil: its significant facilitation to the electrochemical performance of the commercial graphite and its unexpected photochromic behavior. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155302	5.7	3
226	Mitigating Thermal Runaway of Lithium-Ion Batteries. <i>Joule</i> , 2020 , 4, 743-770	27.8	216
225	PVDF-HFP/LiF Composite Interfacial Film to Enhance the Stability of Li-Metal Anodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7191-7199	6.1	8
224	A reliable approach of differentiating discrete sampled-data for battery diagnosis. <i>ETransportation</i> , 2020 , 3, 100051	12.7	34
223	Toward a high-voltage fast-charging pouch cell with TiO ₂ cathode coating and enhanced battery safety. <i>Nano Energy</i> , 2020 , 71, 104643	17.1	36
222	An Empirical Model for the Design of Batteries with High Energy Density. <i>ACS Energy Letters</i> , 2020 , 5, 807-816	20.1	52
221	Countersolvent Electrolytes for Lithium-Metal Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903568	21.8	102
220	A Facile Approach to High Precision Detection of Cell-to-Cell Variation for Li-ion Batteries. <i>Scientific Reports</i> , 2020 , 10, 7182	4.9	7
219	Honeycomb-shaped carbon particles prepared from bicycle waste tires for anodes in lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2020 , 251, 123202	4.4	4
218	Accelerated lithium-ion conduction in covalent organic frameworks. <i>Chemical Communications</i> , 2020 , 56, 10465-10468	5.8	17
217	Comparative study on substitute triggering approaches for internal short circuit in lithium-ion batteries. <i>Applied Energy</i> , 2020 , 259, 114143	10.7	31
216	Thickness variation of lithium metal anode with cycling. <i>Journal of Power Sources</i> , 2020 , 476, 228749	8.9	9
215	Reviewing the current status and development of polymer electrolytes for solid-state lithium batteries. <i>Energy Storage Materials</i> , 2020 , 33, 188-215	19.4	93
214	The opportunity of metal organic frameworks and covalent organic frameworks in lithium (ion) batteries and fuel cells. <i>Energy Storage Materials</i> , 2020 , 33, 360-381	19.4	17

213	Thermal runaway of Lithium-ion batteries employing LiN(SOF)-based concentrated electrolytes. <i>Nature Communications</i> , 2020 , 11, 5100	17.4	58
212	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> , 2020 , 877, 114626	4.1	
211	Effect of PVP Coating on LiMnBO Cathodes for Li-Ion Batteries. <i>Materials</i> , 2020 , 13,	3.5	1
210	Confining ultrafine Li ₃ P nanoclusters in porous carbon for high-performance lithium-ion battery anode. <i>Nano Research</i> , 2020 , 13, 1122-1126	10	10
209	Key Characteristics for Thermal Runaway of Li-ion Batteries. <i>Energy Procedia</i> , 2019 , 158, 4684-4689	2.3	37
208	Red phosphorus filled biomass carbon as high-capacity and long-life anode for sodium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 430, 60-66	8.9	29
207	Overcharge behaviors and failure mechanism of lithium-ion batteries under different test conditions. <i>Applied Energy</i> , 2019 , 250, 323-332	10.7	81
206	Investigating the thermal runaway mechanisms of lithium-ion batteries based on thermal analysis database. <i>Applied Energy</i> , 2019 , 246, 53-64	10.7	162
205	Design of Red Phosphorus Nanostructured Electrode for Fast-Charging Lithium-Ion Batteries with High Energy Density. <i>Joule</i> , 2019 , 3, 1080-1093	27.8	102
204	Conformal Hollow Carbon Sphere Coated on Sn ₄ P ₃ Microspheres as High-Rate and Cycle-Stable Anode Materials with Superior Sodium Storage Capability. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1756-1764	6.1	31
203	New Organic Complex for Lithium Layered Oxide Modification: Ultrathin Coating, High-Voltage, and Safety Performances. <i>ACS Energy Letters</i> , 2019 , 4, 656-665	20.1	59
202	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> , 2019 , 68, 8583-8592	6.8	107
201	Corrosion resistance mechanism of chromate conversion coated aluminium current collector in lithium-ion batteries. <i>Corrosion Science</i> , 2019 , 158, 108100	6.8	9
200	Challenges of Fast Charging for Electric Vehicles and the Role of Red Phosphorous as Anode Material: Review. <i>Energies</i> , 2019 , 12, 3897	3.1	15
199	A comparative investigation of aging effects on thermal runaway behavior of lithium-ion batteries. <i>ETransportation</i> , 2019 , 2, 100034	12.7	104
198	Anion effects on the solvation structure and properties of imide lithium salt-based electrolytes.. <i>RSC Advances</i> , 2019 , 9, 41837-41846	3.7	10
197	An Exploration of New Energy Storage System: High Energy Density, High Safety, and Fast Charging Lithium Ion Battery. <i>Advanced Functional Materials</i> , 2019 , 29, 1805978	15.6	69
196	A graphical model for evaluating the status of series-connected lithium-ion battery pack. <i>International Journal of Energy Research</i> , 2019 , 43, 749-766	4.5	14

195	Electrochemical activation, voltage decay and hysteresis of Li-rich layered cathode probed by various cobalt content. <i>Electrochimica Acta</i> , 2018 , 265, 115-120	6.7	30
194	Preparation of mesoporous Ni ₂ P nanobelts with high performance for electrocatalytic hydrogen evolution and supercapacitor. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3697-3704	6.7	51
193	Leaf-like Fe ₂ O ₃ micron-particle: Preparation and its usage as anode materials for lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2018 , 207, 58-66	4.4	8
192	Probing the heat sources during thermal runaway process by thermal analysis of different battery chemistries. <i>Journal of Power Sources</i> , 2018 , 378, 527-536	8.9	85
191	Detecting the internal short circuit in large-format lithium-ion battery using model-based fault-diagnosis algorithm. <i>Journal of Energy Storage</i> , 2018 , 18, 26-39	7.8	88
190	Thermal runaway mechanism of lithium ion battery for electric vehicles: A review. <i>Energy Storage Materials</i> , 2018 , 10, 246-267	19.4	998
189	Nitrogen-Doped Carbon for Red Phosphorous Based Anode Materials for Lithium Ion Batteries. <i>Materials</i> , 2018 , 11,	3.5	13
188	Model-based thermal runaway prediction of lithium-ion batteries from kinetics analysis of cell components. <i>Applied Energy</i> , 2018 , 228, 633-644	10.7	128
187	Thermal Runaway of Lithium-Ion Batteries without Internal Short Circuit. <i>Joule</i> , 2018 , 2, 2047-2064	27.8	234
186	Research Process on Novel Electrolyte of Lithium-ion Battery Based on Lithium Salts. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2018 , 33, 699	1	4
185	Using PdO and PbO as the starting materials to prepare a multi-walled carbon nanotubes supported composite catalyst (Pd _x Pb _y /MWCNTs) for ethanol oxidation reaction (EOR). <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 1523-1528	6.7	6
184	Protecting Al foils for high-voltage lithium-ion chemistries. <i>Materials Today Energy</i> , 2018 , 7, 18-26	7	13
183	Red phosphorus composite anodes for Li-ion batteries. <i>Ionics</i> , 2018 , 24, 303-308	2.7	5
182	Safety Insight of Li(Ni _{0.5} Co _{0.2} Mn _{0.3})O ₂ Based Lithium Ion Batteries with Gel Electrolyte. <i>International Journal of Electrochemical Science</i> , 2018 , 9385-9398	2.2	3
181	Time Sequence Map for Interpreting the Thermal Runaway Mechanism of Lithium-Ion Batteries With LiNi _x CoyMnzO ₂ Cathode. <i>Frontiers in Energy Research</i> , 2018 , 6,	3.8	51
180	A Coupled Electrochemical-Thermal Failure Model for Predicting the Thermal Runaway Behavior of Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3748-A3765	3.9	44
179	Internal short circuit detection method for battery pack based on circuit topology. <i>Science China Technological Sciences</i> , 2018 , 61, 1502-1511	3.5	16
178	Pseudoconcentrated Electrolyte with High Ionic Conductivity and Stability Enables High-Voltage Lithium-Ion Battery Chemistry. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	9

177	Incremental Capacity Analysis on Commercial Lithium-Ion Batteries Using Support Vector Regression: A Parametric Study. <i>Energies</i> , 2018 , 11, 2323	3.1	18
176	Mechanisms for the evolution of cell variations within a LiNi _x Co _y Mn _z O ₂ /graphite lithium-ion battery pack caused by temperature non-uniformity. <i>Journal of Cleaner Production</i> , 2018 , 205, 447-462	10.3	42
175	Revisiting the Corrosion of the Aluminum Current Collector in Lithium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1072-1077	6.4	98
174	Application of Galvanostatic Intermittent Titration Technique to Investigate Phase Transformation of LiFePO ₄ Nanoparticles. <i>Electrochimica Acta</i> , 2017 , 241, 132-140	6.7	7
173	Internal Short Circuit Trigger Method for Lithium-Ion Battery Based on Shape Memory Alloy. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A3038-A3044	3.9	48
172	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> , 2017 , 10239-10258 ^{2.2}	2.2	14
171	An electrochemical-thermal coupled overcharge-to-thermal-runaway model for lithium ion battery. <i>Journal of Power Sources</i> , 2017 , 364, 328-340	8.9	166
170	Fusing Phenomenon of Lithium-Ion Battery Internal Short Circuit. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2738-A2745	3.9	34
169	Reaction Mechanisms on Solvothermal Synthesis of Nano LiFePO ₄ Crystals and Defect Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10648-10657	3.9	11
168	Battery Internal Short Circuit Detection. <i>ECS Transactions</i> , 2017 , 77, 217-223	1	11
167	Economic and High Performance Phosphorus-Carbon Composite for Lithium and Sodium Storage. <i>ACS Omega</i> , 2017 , 2, 4440-4446	3.9	8
166	A 3D thermal runaway propagation model for a large format lithium ion battery module. <i>Energy</i> , 2016 , 115, 194-208	7.9	160
165	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> , 2016 , 4, 4217-4223	8.3	31
164	A novel material Li ₂ NiFe ₂ O ₄ : Preparation and performance as anode of lithium ion battery. <i>Materials Chemistry and Physics</i> , 2016 , 177, 31-39	4.4	15
163	Morphology controllable synthesis of CoMn ₂ O ₄ structures by adjusting the urea concentration: From microflowers to microspheres. <i>Materials Letters</i> , 2016 , 168, 166-170	3.3	10
162	A dynamic capacity degradation model and its applications considering varying load for a large format Li-ion battery. <i>Applied Energy</i> , 2016 , 165, 48-59	10.7	119
161	Polyimide Binder: A Facile Way to Improve Safety of Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 187, 113-118	6.7	42
160	Characterization of porous micro-/nanostructured Co ₃ O ₄ microellipsoids. <i>Electrochimica Acta</i> , 2016 , 188, 40-47	6.7	7

159	Distinctive slit-shaped porous carbon encapsulating phosphorus as a promising anode material for lithium batteries. <i>Ionics</i> , 2016 , 22, 167-172	2.7	12
158	One-Step Synthesis of Single-Wall Carbon Nanotube-ZnS Core-Shell Nanocables. <i>Materials</i> , 2016 , 9,	3.5	3
157	Recent Progress on the Key Materials and Components for Proton Exchange Membrane Fuel Cells in Vehicle Applications. <i>Energies</i> , 2016 , 9, 603	3.1	44
156	Nano-Crystalline LiMnNiO ₂ Prepared via Amorphous Complex Precursor and Its Electrochemical Performances as Cathode Material for Lithium-Ion Batteries. <i>Materials</i> , 2016 , 9,	3.5	14
155	The Synthesis of LiMnFePO ₄ /C Cathode Material through Solvothermal Jointed with Solid-State Reaction. <i>Materials</i> , 2016 , 9,	3.5	5
154	Boron-doped Ketjenblack based high performances cathode for rechargeable Li ₂ O ₂ batteries. <i>Journal of Energy Chemistry</i> , 2016 , 25, 131-135	12	11
153	Mesoporous MnCo ₂ O ₄ microflower constructed by sheets for lithium ion batteries. <i>Materials Letters</i> , 2016 , 177, 85-88	3.3	20
152	Electrochemical performance of LiMnPO ₄ by Fe and Zn co-doping for lithium-ion batteries. <i>Ionics</i> , 2015 , 21, 667-671	2.7	19
151	Effect of cooling on the structure and electrochemical properties of 0.3Li ₂ MnO ₃ / 0.7LiNi _{0.5} Mn _{0.5} O ₂ cathode material. <i>Ionics</i> , 2015 , 21, 1819-1825	2.7	4
150	Composite of graphite/phosphorus as anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 289, 100-104	8.9	67
149	Significant role of Burned Graphene in determining the morphology of LiNiO ₂ prepared under the air conditions. <i>Electrochimica Acta</i> , 2015 , 176, 240-248	6.7	12
148	Urea-assisted solvothermal synthesis of monodisperse multiporous hierarchical micro/nanostructured ZnCo ₂ O ₄ microspheres and their lithium storage properties. <i>Ionics</i> , 2015 , 21, 2743-2754 ¹⁴	2.7	14
147	Nanocomposite polymer membrane derived from nano TiO ₂ -PMMA and glass fiber nonwoven: high thermal endurance and cycle stability in lithium ion battery applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17697-17703	13	36
146	Thermal runaway propagation model for designing a safer battery pack with 25 Ah LiNi Co Mn O ₂ large format lithium ion battery. <i>Applied Energy</i> , 2015 , 154, 74-91	10.7	177
145	Surface modification of polyolefin separators for lithium ion batteries to reduce thermal shrinkage without thickness increase. <i>Journal of Energy Chemistry</i> , 2015 , 24, 138-144	12	36
144	Three-dimension hierarchical flower-like Ni _{1.5} Co _{1.5} O ₄ nanostructures composed of two-dimension ultrathin nanosheets as an anode material for lithium ion batteries. <i>Materials Letters</i> , 2015 , 151, 49-52	3.3	5
143	Internal short circuit detection for battery pack using equivalent parameter and consistency method. <i>Journal of Power Sources</i> , 2015 , 294, 272-283	8.9	111
142	Facile synthesis of monodisperse Co ₃ O ₄ mesoporous microdisks as an anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2015 , 151, 109-117	6.7	47

141	Characterization of penetration induced thermal runaway propagation process within a large format lithium ion battery module. <i>Journal of Power Sources</i> , 2015 , 275, 261-273	8.9	228
140	Effect of pressure on the structural properties of Li[Li _{0.1} Ni _{0.35} Mn _{0.55}]O ₂ . <i>AIP Advances</i> , 2015 , 5, 0471065		1
139	Strategy for synthesizing spherical LiNi _{0.5} Mn _{1.5} O ₄ cathode material for lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2015 , 152, 177-182	4.4	14
138	In-situ Coating of Cathode by Electrolyte Additive for High-voltage Performance of Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015 , 158, 202-208	6.7	11
137	Composite electrospun membranes containing a monodispersed nano-sized TiO ₂ @Li ⁺ single ionic conductor for Li-ion batteries. <i>RSC Advances</i> , 2015 , 5, 8258-8262	3.7	13
136	Electrochemical Performance of Fe ₃ O ₄ /MWCNTs Composite Cathode Synthesized by Solvothermal Process. <i>Journal of New Materials for Electrochemical Systems</i> , 2015 , 18, 103-109	2.8	3
135	Preparation and characterization of Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ cathode materials for lithium-ion battery. <i>Ionics</i> , 2014 , 20, 301-307	2.7	8
134	Molecular dynamics simulations of lanthanum oxide surfaces. <i>Ionics</i> , 2014 , 20, 1111-1116	2.7	1
133	Influence of anion species on the morphology of solvothermal synthesized LiMn _{0.9} Fe _{0.1} PO ₄ . <i>Electrochimica Acta</i> , 2014 , 134, 13-17	6.7	15
132	Structure and electrochemical properties of composite polymer electrolyte based on poly vinylidene fluoride-hexafluoropropylene/titania-poly(methyl methacrylate) for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 246, 499-504	8.9	35
131	Effect of SiO ₂ content on performance of polypropylene separator for lithium-ion batteries. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	8
130	Electrochemical properties of MnO ₂ nanorods as anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2014 , 142, 152-156	6.7	80
129	Solvothermal synthesis of nano LiMn _{0.9} Fe _{0.1} PO ₄ : Reaction mechanism and electrochemical properties. <i>Journal of Power Sources</i> , 2014 , 253, 143-149	8.9	32
128	Preparation and performance of silica/polypropylene composite separator for lithium-ion batteries. <i>Journal of Materials Science</i> , 2014 , 49, 6961-6966	4.3	29
127	Influences on power performances of metal oxide additives for LiFePO ₄ electrodes. <i>Ionics</i> , 2014 , 20, 1517-1523	2.7	5
126	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> , 2014 , 2, 200-206	8.3	42
125	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> , 2014 , 23, 582-586	12	20
124	Characterization of large format lithium ion battery exposed to extremely high temperature. <i>Journal of Power Sources</i> , 2014 , 272, 457-467	8.9	102

123	Thermal runaway features of large format prismatic lithium ion battery using extended volume accelerating rate calorimetry. <i>Journal of Power Sources</i> , 2014 , 255, 294-301	8.9	378
122	Molecular dynamics simulations of La ₂ O ₃ thin films on SiO ₂ . <i>Journal of Energy Chemistry</i> , 2014 , 23, 282-286		1
121	Effect of Al ₂ O ₃ /SiO ₂ composite ceramic layers on performance of polypropylene separator for lithium-ion batteries. <i>Ceramics International</i> , 2014 , 40, 14105-14110	5.1	42
120	Biomass-derived Activated Carbon for Rechargeable Lithium-Sulfur Batteries. <i>BioResources</i> , 2014 , 10,	1.3	5
119	Morphology evolution and impurity analysis of LiFePO ₄ nanoparticles via a solvothermal synthesis process. <i>RSC Advances</i> , 2014 , 4, 56074-56083	3.7	25
118	Improvement in High-voltage Performance of Lithium-ion Batteries Using Bismaleimide as an Electrolyte Additive. <i>Electrochimica Acta</i> , 2014 , 121, 264-269	6.7	23
117	A one-pot approach towards FeF ₂ /carbon core-shell composite and its application in lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 606, 226-230	5.7	13
116	Preparation of Li ₃ V ₂ (PO ₄) ₃ /LiFePO ₄ composite cathode material for lithium ion batteries. <i>Ionics</i> , 2013 , 19, 1247-1253	2.7	15
115	In situ prepared nano-crystalline TiO ₂ /poly(methyl methacrylate) hybrid enhanced composite polymer electrolyte for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5955	13	101
114	Synthesis and characterization of Li(Li _{0.23} Mn _{0.47} Fe _{0.2} Ni _{0.1})O ₂ cathode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2013 , 244, 652-657	8.9	33
113	Interfacial compatibility of gel polymer electrolyte and electrode on performance of Li-ion battery. <i>Electrochimica Acta</i> , 2013 , 114, 527-532	6.7	36
112	Nano particle LiFePO ₄ prepared by solvothermal process. <i>Journal of Power Sources</i> , 2013 , 244, 94-100	8.9	35
111	Graphene-coated plastic film as current collector for lithium/sulfur batteries. <i>Journal of Power Sources</i> , 2013 , 239, 623-627	8.9	42
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