Xiangming He

List of Publications by Year
in descending order

277 papers	19,407 citations	13087 68 h-index	14197 128 g-index
286 all docs	286 docs citations	286 times ranked	11476 citing authors

#	Article	IF	Citations
1	Impact of Lithiumâ€Ion Coordination on Lithium Electrodeposition. Energy and Environmental Materials, 2023, 6, .	7.3	5
2	Thermal Runaway of Lithiumâ€Ion Batteries Employing Flameâ€Retardant Fluorinated Electrolytes. Energy and Environmental Materials, 2023, 6, .	7.3	19
3	Insight into the Electrochemical Behaviors of <scp>NCM811</scp>|<scp>SiOâ€Cr</scp> Pouch Battery through Thickness Variation. Energy and Environmental Materials, 2023, 6, .	7.3	4
4	High Ionâ€Selectivity of Garnet Solid Electrolyte Enabling Separation of Metallic Lithium. Energy and Environmental Materials, 2023, 6, .	7.3	1
5	<scp>Li₄Ti₅O₁₂</scp> spinel anode: Fundamentals and advances in rechargeable batteries. InformaÄ›nÃ-MateriÃ¡ly, 2022, 4, .	8.5	71
6	An ionic liquid-present immersion method for preparing cotton fiber-shaped Cu2O nanoparticles at room temperature. Journal of Applied Electrochemistry, 2022, 52, 55-65.	1.5	1
7	Simultaneously Blocking Chemical Crosstalk and Internal Short Circuit via Gelâ€Stretching Derived Nanoporous Nonâ€Shrinkage Separator for Safe Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2106335.	11.1	51
8	Suppressing electrolyte-lithium metal reactivity via Li+-desolvation in uniform nano-porous separator. Nature Communications, 2022, 13, 172.	5.8	83
9	In-depth investigation of the exothermic reactions between lithiated graphite and electrolyte in lithium-ion battery. Journal of Energy Chemistry, 2022, 69, 593-600.	7.1	34
10	Thermal runaway modeling of LiNi0.6Mn0.2Co0.2O2/graphite batteries under different states of charge. Journal of Energy Storage, 2022, 49, 104090.	3.9	19
11	Cobaltâ€Free Cathode Materials: Families and their Prospects. Advanced Energy Materials, 2022, 12, .	10.2	77
12	Insights for understanding multiscale degradation of LiFePO4 cathodes. EScience, 2022, 2, 125-137.	25.0	65
13	Rational design of imineâ€linked threeâ€dimensional mesoporous covalent organic frameworks with bor topology. SusMat, 2022, 2, 197-205.	7.8	12
14	Targeted masking enables stable cycling of LiNi0.6Co0.2Mn0.2O2 at 4.6V. Nano Energy, 2022, 96, 107123.	8.2	42
15	Trends in a study on thermal runaway mechanism of lithiumâ€ion battery with LiNi_xMn_yCo_{1â€xâ€y}O₂ cathode materials. , 2022, 1, .		32
16	New Insight on Graphite Anode Degradation Induced by Liâ€Plating. Energy and Environmental Materials, 2022, 5, 872-876.	7.3	12
17	The significance of detecting imperceptible physical/chemical changes/reactions in lithium-ion batteries: a perspective. Energy and Environmental Science, 2022, 15, 2329-2355.	15.6	20
18	Cobaltâ€Free Cathode Materials: Families and their Prospects (Adv. Energy Mater. 16/2022). Advanced Energy Materials, 2022, 12, .	10.2	2

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19	Double-salt electrolyte for Li-ion batteries operated at elevated temperatures. Energy Storage Materials, 2022, 49, 493-501.	9.5	15
20	Thermal-Switchable, Trifunctional Ceramicâ€"Hydrogel Nanocomposites Enable Full-Lifecycle Security in Practical Battery Systems. ACS Nano, 2022, 16, 10729-10741.	7.3	30
21	Regulation of Dendrite-Free Li Plating via Lithiophilic Sites on Lithium-Alloy Surface. ACS Applied Materials & Interfaces, 2022, 14, 33952-33959.	4.0	15
22	Rational design of functional binder systems for high-energy lithium-based rechargeable batteries. Energy Storage Materials, 2021, 35, 353-377.	9.5	56
23	A review of lithium-ion battery safety concerns: The issues, strategies, and testing standards. Journal of Energy Chemistry, 2021, 59, 83-99.	7.1	768
24	Three-Dimensional Covalent Organic Framework with ceq Topology. Journal of the American Chemical Society, 2021, 143, 92-96.	6.6	84
25	Investigating the relationship between internal short circuit and thermal runaway of lithium-ion batteries under thermal abuse condition. Energy Storage Materials, 2021, 34, 563-573.	9.5	264
26	PEO based polymer-ceramic hybrid solid electrolytes: a review. Nano Convergence, 2021, 8, 2.	6.3	136
27	Pry into the thermal and mechanical properties of electrolyte-soaked separators. Journal of the Taiwan Institute of Chemical Engineers, 2021, 119, 269-276.	2.7	8
28	Anodic Stabilities of Various Metals as the Current Collector in High Concentration Electrolytes for Lithium Batteries. Journal of the Electrochemical Society, 2021, 168, 030509.	1.3	8
29	From separator to membrane: Separators can function more in lithium ion batteries. Electrochemistry Communications, 2021, 124, 106948.	2.3	37
30	Benzophenone as indicator detecting lithium metal inside solid state electrolyte. Journal of Power Sources, 2021, 492, 229661.	4.0	6
31	Enhanced Structural Stability and Electrochemical Performance of LiNi0.6Co0.2Mn0.2O2 Cathode Materials by Ga Doping. Materials, 2021, 14, 1816.	1.3	16
32	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. ACS Energy Letters, 2021, 6, 1839-1848.	8.8	200
33	Preparation and Electrochemical Properties of LiNi2/3Co1/6Mn1/6O2 Cathode Material for Lithium-Ion Batteries. Materials, 2021, 14, 1766.	1.3	7
34	Graphite as anode materials: Fundamental mechanism, recent progress and advances. Energy Storage Materials, 2021, 36, 147-170.	9.5	344
35	In situ formation of ionically conductive nanointerphase on Si particles for stable battery anode. Science China Chemistry, 2021, 64, 1417-1425.	4.2	28
36	Development of cathode-electrolyte-interphase for safer lithium batteries. Energy Storage Materials, 2021, 37, 77-86.	9.5	78

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37	Nonflammable pseudoconcentrated electrolytes for batteries. Current Opinion in Electrochemistry, 2021, 30, 100783.	2.5	4
38	In situ observation of thermal-driven degradation and safety concerns of lithiated graphite anode. Nature Communications, 2021, 12, 4235.	5.8	74
39	Thermal runaway mechanism of lithium-ion battery with LiNi0.8Mn0.1Co0.1O2 cathode materials. Nano Energy, 2021, 85, 105878.	8.2	116
40	Unlocking the self-supported thermal runaway of high-energy lithium-ion batteries. Energy Storage Materials, 2021, 39, 395-402.	9.5	74
41	Investigating the thermal runaway features of lithium-ion batteries using a thermal resistance network model. Applied Energy, 2021, 295, 117038.	5.1	48
42	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. Synthetic Metals, 2021, 278, 116837.	2.1	4
43	Correlation between thermal stabilities of nickelâ€rich cathode materials and battery thermal runaway. International Journal of Energy Research, 2021, 45, 20867-20877.	2.2	24
44	Criterion for Identifying Anodes for Practically Accessible High-Energy-Density Lithium-Ion Batteries. ACS Energy Letters, 2021, 6, 3719-3724.	8.8	55
45	Thermal-responsive, super-strong, ultrathin firewalls for quenching thermal runaway in high-energy battery modules. Energy Storage Materials, 2021, 40, 329-336.	9.5	85
46	High-rate performance of LiNi0.5Mn1.45Al0.05O4 cathode material for lithium-ion batteries. Ionics, 2021, 27, 4639-4647.	1.2	0
47	Internal short circuit evaluation and corresponding failure mode analysis for lithium-ion batteries. Journal of Energy Chemistry, 2021, 61, 269-280.	7.1	48
48	In-built ultraconformal interphases enable high-safety practical lithium batteries. Energy Storage Materials, 2021, 43, 248-257.	9.5	49
49	A practical approach to predict volume deformation of lithiumâ€ion batteries from crystal structure changes of electrode materials. International Journal of Energy Research, 2021, 45, 7732-7740.	2.2	11
50	A dotted nanowire arrayed by 5Ânm sized palladium and nickel composite nanopaticles showing significant electrocatalytic activity towards ethanol oxidation reaction (EOR). International Journal of Hydrogen Energy, 2021, 47, 276-276.	3.8	1
51	Suppression of lithium dendrite by aramid nanofibrous aerogel separator. Journal of Power Sources, 2021, 515, 230608.	4.0	10
52	Highâ€Voltage and Highâ€Safety Practical Lithium Batteries with Ethylene Carbonateâ€Free Electrolyte. Advanced Energy Materials, 2021, 11, 2102299.	10.2	59
53	Investigation on Thermal Runaway of Li-Ion Cells Based on LiNi1/3Mn1/3Co1/3O2. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	4
54	Three-Dimensional Covalent Organic Frameworks with hea Topology. Chemistry of Materials, 2021, 33, 9618-9623.	3.2	45

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55	Comparative study on substitute triggering approaches for internal short circuit in lithium-ion batteries. Applied Energy, 2020, 259, 114143.	5.1	61
56	Thickness variation of lithium metal anode with cycling. Journal of Power Sources, 2020, 476, 228749.	4.0	26
57	Reviewing the current status and development of polymer electrolytes for solid-state lithium batteries. Energy Storage Materials, 2020, 33, 188-215.	9.5	205
58	The opportunity of metal organic frameworks and covalent organic frameworks in lithium (ion) batteries and fuel cells. Energy Storage Materials, 2020, 33, 360-381.	9.5	47
59	Thermal runaway of Lithium-ion batteries employing LiN(SO2F)2-based concentrated electrolytes. Nature Communications, 2020, 11, 5100.	5.8	133
60	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. Journal of Electroanalytical Chemistry, 2020, 877, 114626.	1.9	0
61	Effect of PVP Coating on LiMnBO3 Cathodes for Li-Ion Batteries. Materials, 2020, 13, 5528.	1.3	3
62	Recycling of Lignin and Si Waste for Advanced Si/C Battery Anodes. ACS Applied Materials & Interfaces, 2020, 12, 57055-57063.	4.0	49
63	A polymeric composite protective layer for stable Li metal anodes. Nano Convergence, 2020, 7, 21.	6.3	17
64	Large-scale synthesis of lithium- and manganese-rich materials with uniform thin-film Al2O3 coating for stable cathode cycling. Science China Materials, 2020, 63, 1683-1692.	3.5	23
65	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. Journal of Alloys and Compounds, 2020, 835, 155302.	2.8	7
66	Mitigating Thermal Runaway of Lithium-Ion Batteries. Joule, 2020, 4, 743-770.	11.7	676
67	PVDF-HFP/LiF Composite Interfacial Film to Enhance the Stability of Li-Metal Anodes. ACS Applied Energy Materials, 2020, 3, 7191-7199.	2.5	33
68	A reliable approach of differentiating discrete sampled-data for battery diagnosis. ETransportation, 2020, 3, 100051.	6.8	71
69	Toward a high-voltage fast-charging pouch cell with TiO2 cathode coating and enhanced battery safety. Nano Energy, 2020, 71, 104643.	8.2	72
70	An Empirical Model for the Design of Batteries with High Energy Density. ACS Energy Letters, 2020, 5, 807-816.	8.8	97
71	Countersolvent Electrolytes for Lithiumâ€Metal Batteries. Advanced Energy Materials, 2020, 10, 1903568.	10.2	200
72	A Facile Approach to High Precision Detection of Cell-to-Cell Variation for Li-ion Batteries. Scientific Reports, 2020, 10, 7182.	1.6	16

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73	Confining ultrafine Li3P nanoclusters in porous carbon for high-performance lithium-ion battery anode. Nano Research, 2020, 13, 1122-1126.	5.8	19
74	Honeycomb-shaped carbon particles prepared from bicycle waste tires for anodes in lithium ion batteries. Materials Chemistry and Physics, 2020, 251, 123202.	2.0	9
75	Accelerated lithium-ion conduction in covalent organic frameworks. Chemical Communications, 2020, 56, 10465-10468.	2.2	40
76	Photoresist for Extreme Ultraviolet Lithography. , 2020, , .		0
77	Online State-of-Health Estimation for Li-Ion Battery Using Partial Charging Segment Based on Support Vector Machine. IEEE Transactions on Vehicular Technology, 2019, 68, 8583-8592.	3.9	265
78	Corrosion resistance mechanism of chromate conversion coated aluminium current collector in lithium-ion batteries. Corrosion Science, 2019, 158, 108100.	3.0	37
79	Challenges of Fast Charging for Electric Vehicles and the Role of Red Phosphorous as Anode Material: Review. Energies, 2019, 12, 3897.	1.6	24
80	Key Characteristics for Thermal Runaway of Li-ion Batteries. Energy Procedia, 2019, 158, 4684-4689.	1.8	59
81	Red phosphorus filled biomass carbon as high-capacity and long-life anode for sodium-ion batteries. Journal of Power Sources, 2019, 430, 60-66.	4.0	47
82	Overcharge behaviors and failure mechanism of lithium-ion batteries under different test conditions. Applied Energy, 2019, 250, 323-332.	5.1	164
83	Investigating the thermal runaway mechanisms of lithium-ion batteries based on thermal analysis database. Applied Energy, 2019, 246, 53-64.	5.1	358
84	Design of Red Phosphorus Nanostructured Electrode for Fast-Charging Lithium-Ion Batteries with High Energy Density. Joule, 2019, 3, 1080-1093.	11.7	168
85	Conformal Hollow Carbon Sphere Coated on Sn₄P₃ Microspheres as High-Rate and Cycle-Stable Anode Materials with Superior Sodium Storage Capability. ACS Applied Energy Materials, 2019, 2, 1756-1764.	2.5	38
86	New Organic Complex for Lithium Layered Oxide Modification: Ultrathin Coating, High-Voltage, and Safety Performances. ACS Energy Letters, 2019, 4, 656-665.	8.8	97
87	A comparative investigation of aging effects on thermal runaway behavior of lithium-ion batteries. ETransportation, 2019, 2, 100034.	6.8	230
88	Anion effects on the solvation structure and properties of imide lithium salt-based electrolytes. RSC Advances, 2019, 9, 41837-41846.	1.7	31
89	An Exploration of New Energy Storage System: High Energy Density, High Safety, and Fast Charging Lithium Ion Battery. Advanced Functional Materials, 2019, 29, 1805978.	7.8	109
90	A graphical model for evaluating the status of series-connected lithium-ion battery pack. International Journal of Energy Research, 2019, 43, 749-766.	2.2	20

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91	Electrochemical activation, voltage decay and hysteresis of Li-rich layered cathode probed by various cobalt content. Electrochimica Acta, 2018, 265, 115-120.	2.6	41
92	Preparation of mesoporous Ni2P nanobelts with high performance for electrocatalytic hydrogen evolution and supercapacitor. International Journal of Hydrogen Energy, 2018, 43, 3697-3704.	3.8	73
93	Leaf-like Î±-Fe2O3 micron-particle: Preparation and its usage as anode materials for lithium ion batteries. Materials Chemistry and Physics, 2018, 207, 58-66.	2.0	11
94	Probing the heat sources during thermal runaway process by thermal analysis of different battery chemistries. Journal of Power Sources, 2018, 378, 527-536.	4.0	137
95	Detecting the internal short circuit in large-format lithium-ion battery using model-based fault-diagnosis algorithm. Journal of Energy Storage, 2018, 18, 26-39.	3.9	166
96	Thermal runaway mechanism of lithium ion battery for electric vehicles: A review. Energy Storage Materials, 2018, 10, 246-267.	9.5	1,939
97	Using PdO and PbO as the starting materials to prepare a multi-walled carbon nanotubes supported composite catalyst (PdxPby/MWCNTs) for ethanol oxidation reaction (EOR). International Journal of Hydrogen Energy, 2018, 43, 1523-1528.	3.8	10
98	Protecting Al foils for high-voltage lithium-ion chemistries. Materials Today Energy, 2018, 7, 18-26.	2.5	24
99	Red phosphorus composite anodes for Li-ion batteries. Ionics, 2018, 24, 303-308.	1.2	5
100	Safety Insight of Li(Ni0.5Co0.2Mn0.3)O2 Based Lithium Ion Batteries with Gel Electrolyte. International Journal of Electrochemical Science, 2018, , 9385-9398.	0.5	3
101	Time Sequence Map for Interpreting the Thermal Runaway Mechanism of Lithium-Ion Batteries With LiNixCoyMnzO2 Cathode. Frontiers in Energy Research, 2018, 6, .	1.2	89
102	A Coupled Electrochemical-Thermal Failure Model for Predicting the Thermal Runaway Behavior of Lithium-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A3748-A3765.	1.3	98
103	Internal short circuit detection method for battery pack based on circuit topology. Science China Technological Sciences, 2018, 61, 1502-1511.	2.0	28
104	Incremental Capacity Analysis on Commercial Lithium-Ion Batteries Using Support Vector Regression: A Parametric Study. Energies, 2018, 11, 2323.	1.6	33
105	Mechanisms for the evolution of cell variations within a LiNixCoyMnzO2/graphite lithium-ion battery pack caused by temperature non-uniformity. Journal of Cleaner Production, 2018, 205, 447-462.	4.6	80
106	Nitrogen-Doped Carbon for Red Phosphorous Based Anode Materials for Lithium Ion Batteries. Materials, 2018, 11, 134.	1.3	20
107	Model-based thermal runaway prediction of lithium-ion batteries from kinetics analysis of cell components. Applied Energy, 2018, 228, 633-644.	5.1	241
108	Thermal Runaway of Lithium-Ion Batteries without Internal Short Circuit. Joule, 2018, 2, 2047-2064.	11.7	442

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109	Research Process on Novel Electrolyte of Lithium-ion Battery Based on Lithium Salts. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2018, 33, 699.	0.6	6
110	Revisiting the Corrosion of the Aluminum Current Collector in Lithium-Ion Batteries. Journal of Physical Chemistry Letters, 2017, 8, 1072-1077.	2.1	156
111	Application of Galvanostatic Intermittent Titration Technique to Investigate Phase Transformation of LiFePO 4 Nanoparticles. Electrochimica Acta, 2017, 241, 132-140.	2.6	9
112	Internal Short Circuit Trigger Method for Lithium-Ion Battery Based on Shape Memory Alloy. Journal of the Electrochemical Society, 2017, 164, A3038-A3044.	1.3	64
113	An electrochemical-thermal coupled overcharge-to-thermal-runaway model for lithium ion battery. Journal of Power Sources, 2017, 364, 328-340.	4.0	294
114	Fusing Phenomenon of Lithium-Ion Battery Internal Short Circuit. Journal of the Electrochemical Society, 2017, 164, A2738-A2745.	1.3	46
115	Reaction Mechanisms on Solvothermal Synthesis of Nano LiFePO₄ Crystals and Defect Analysis. Industrial & Engineering Chemistry Research, 2017, 56, 10648-10657.	1.8	19
116	Battery Internal Short Circuit Detection. ECS Transactions, 2017, 77, 217-223.	0.3	18
117	Economic and High Performance Phosphorusâ€"Carbon Composite for Lithium and Sodium Storage. ACS Omega, 2017, 2, 4440-4446.	1.6	10
118	A Facile Consistency Screening Approach to Select Cells with Better Performance Consistency for Commercial 18650 Lithium Ion Cells. International Journal of Electrochemical Science, 2017, 12, 10239-10258.	0.5	23
119	One-Step Synthesis of Single-Wall Carbon Nanotube-ZnS Core-Shell Nanocables. Materials, 2016, 9, 718.	1.3	3
120	Recent Progress on the Key Materials and Components for Proton Exchange Membrane Fuel Cells in Vehicle Applications. Energies, 2016, 9, 603.	1.6	64
121	Nano-Crystalline Li1.2Mn0.6Ni0.2O2 Prepared via Amorphous Complex Precursor and Its Electrochemical Performances as Cathode Material for Lithium-Ion Batteries. Materials, 2016, 9, 661.	1.3	18
122	The Synthesis of LiMnxFe1âˆ'xPO4/C Cathode Material through Solvothermal Jointed with Solid-State Reaction. Materials, 2016, 9, 766.	1.3	9
123	Boron-doped Ketjenblack based high performances cathode for rechargeable Liâ€"O 2 batteries. Journal of Energy Chemistry, 2016, 25, 131-135.	7.1	12
124	Mesoporous MnCo2O4 microflower constructed by sheets for lithium ion batteries. Materials Letters, 2016, 177, 85-88.	1.3	24
125	A 3D thermal runaway propagation model for a large format lithium ion battery module. Energy, 2016, 115, 194-208.	4.5	279
126	Effect of Pore Size Distribution of Carbon Matrix on the Performance of Phosphorus@Carbon Material as Anode for Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2016, 4, 4217-4223.	3.2	34

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127	A novel material Li2NiFe2O4: Preparation and performance as anode of lithium ion battery. Materials Chemistry and Physics, 2016, 177, 31-39.	2.0	20
128	Morphology controllable synthesis of CoMn2O4 structures by adjusting the urea concentration: From microflowers to microspheres. Materials Letters, 2016, 168, 166-170.	1.3	12
129	A dynamic capacity degradation model and its applications considering varying load for a large format Li-ion battery. Applied Energy, 2016, 165, 48-59.	5.1	170
130	Polyimide Binder: A Facile Way to Improve Safety of Lithium Ion Batteries. Electrochimica Acta, 2016, 187, 113-118.	2.6	53
131	Characterization of porous micro-/nanostructured Co 3 O 4 microellipsoids. Electrochimica Acta, 2016, 188, 40-47.	2.6	11
132	Distinctive slit-shaped porous carbon encapsulating phosphorus as a promising anode material for lithium batteries. Ionics, 2016, 22, 167-172.	1.2	14
133	Effect of pressure on the structural properties of Li[Li0.1Ni0.35Mn0.55]O2. AIP Advances, 2015, 5, .	0.6	2
134	Strategy for synthesizing spherical LiNi 0.5 Mn 1.5 O 4 cathode material for lithium ion batteries. Materials Chemistry and Physics, 2015, 152, 177-182.	2.0	15
135	In-situ Coating of Cathode by Electrolyte Additive for High-voltage Performance of Lithium-ion Batteries. Electrochimica Acta, 2015, 158, 202-208.	2.6	14
136	Composite electrospun membranes containing a monodispersed nano-sized TiO₂@Li⁺ single ionic conductor for Li-ion batteries. RSC Advances, 2015, 5, 8258-8262.	1.7	13
137	Electrochemical performance of LiMnPO4 by Fe and Zn co-doping for lithium-ion batteries. Ionics, 2015, 21, 667-671.	1.2	28
138	Effect of cooling on the structure and electrochemical properties of 0.3Li2MnO3 Â· 0.7LiNi0.5Mn0.5O2 cathode material. Ionics, 2015, 21, 1819-1825.	1.2	6
139	Composite of graphite/phosphorus as anode for lithium-ion batteries. Journal of Power Sources, 2015, 289, 100-104.	4.0	85
140	Significant role of â€œburnedâ€•graphene in determining the morphology of LiNiO2 prepared under the air conditions. Electrochimica Acta, 2015, 176, 240-248.	2.6	25
141	Urea-assisted solvothermal synthesis of monodisperse multiporous hierarchical micro/nanostructured ZnCo2O4 microspheres and their lithium storage properties. Ionics, 2015, 21, 2743-2754.	1.2	18
142	Nanocomposite polymer membrane derived from nano TiO₂-PMMA and glass fiber nonwoven: high thermal endurance and cycle stability in lithium ion battery applications. Journal of Materials Chemistry A, 2015, 3, 17697-17703.	5.2	49
143	Thermal runaway propagation model for designing a safer battery pack with 25 Ah LiNi Co Mn O2 large format lithium ion battery. Applied Energy, 2015, 154, 74-91.	5.1	293
144	Surface modification of polyolefin separators for lithium ion batteries to reduce thermal shrinkage without thickness increase. Journal of Energy Chemistry, 2015, 24, 138-144.	7.1	46

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145	Three-dimension hierarchical flower-like Ni1.5Co1.5O4 nanostructures composed of two-dimension ultrathin nanosheets as an anode material for lithium ion batteries. Materials Letters, 2015, 151, 49-52.	1.3	5
146	Internal short circuit detection for battery pack using equivalent parameter and consistency method. Journal of Power Sources, 2015, 294, 272-283.	4.0	191
147	Facile synthesis of monodisperse Co3O4 mesoporous microdisks as an anode material for lithium ion batteries. Electrochimica Acta, 2015, 151, 109-117.	2.6	58
148	Characterization of penetration induced thermal runaway propagation process within a large format lithium ion battery module. Journal of Power Sources, 2015, 275, 261-273.	4.0	372
149	Electrochemical Performance of FeF3Â·0.33H2O/MWCNTs Composite Cathode Synthesized by Solvothermal Process. Journal of New Materials for Electrochemical Systems, 2015, 18, 103-109.	0.3	3
150	Biomass-derived Activated Carbon for Rechargeable Lithium-Sulfur Batteries. BioResources, 2014, 10, .	0.5	5
151	Li Storage Properties of (1-x-y)Li[Li1/3Mn2/3]O2-xLiFeO2-yLiNiO2 Solid Solution Cathode Materials. ECS Transactions, 2014, 62, 79-87.	0.3	1
152	Morphology evolution and impurity analysis of LiFePO₄ nanoparticles via a solvothermal synthesis process. RSC Advances, 2014, 4, 56074-56083.	1.7	33
153	Improvement in High-voltage Performance of Lithium-ion Batteries Using Bismaleimide as an Electrolyte Additive. Electrochimica Acta, 2014, 121, 264-269.	2.6	27
154	A one-pot approach towards FeF2â€“carbon coreâ€“shell composite and its application in lithium ion batteries. Journal of Alloys and Compounds, 2014, 606, 226-230.	2.8	27
155	Preparation and characterization of Li1.2Ni0.13Co0.13Mn0.54O2 cathode materials for lithium-ion battery. Ionics, 2014, 20, 301-307.	1.2	10
156	Molecular dynamics simulations of lanthanum oxide surfaces. Ionics, 2014, 20, 1111-1116.	1.2	3
157	Influence of anion species on the morphology of solvothermal synthesized LiMn0.9Fe0.1PO4. Electrochimica Acta, 2014, 134, 13-17.	2.6	17
158	Structure and electrochemical properties of composite polymer electrolyte based on poly vinylidene fluorideâ€“hexafluoropropylene/titaniaâ€“poly(methyl methacrylate) for lithium-ion batteries. Journal of Power Sources, 2014, 246, 499-504.	4.0	41
159	Effect of SiO₂ content on performance of polypropylene separator for lithiumâ€ion batteries. Journal of Applied Polymer Science, 2014, 131, .	1.3	8
160	Electrochemical properties of MnO 2 nanorods as anode materials for lithium ion batteries. Electrochimica Acta, 2014, 142, 152-156.	2.6	94
161	Solvothermal synthesis of nano LiMn0.9Fe0.1PO4: Reaction mechanism and electrochemical properties. Journal of Power Sources, 2014, 253, 143-149.	4.0	37
162	Preparation and performance of silica/polypropylene composite separator for lithium-ion batteries. Journal of Materials Science, 2014, 49, 6961-6966.	1.7	37

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163	Influences on power performances of metal oxide additives for LiFePO4 electrodes. Ionics, 2014, 20, 1517-1523.	1.2	5
164	Hierarchical Carbon Nanotube/Carbon Black Scaffolds as Short- and Long-Range Electron Pathways with Superior Li-Ion Storage Performance. ACS Sustainable Chemistry and Engineering, 2014, 2, 200-206.	3.2	58
165	Effect of silica nanoparticles/poly(vinylidene fluoride-hexafluoropropylene) coated layers on the performance of polypropylene separator for lithium-ion batteries. Journal of Energy Chemistry, 2014, 23, 582-586.	7.1	25
166	Characterization of large format lithium ion battery exposed to extremely high temperature. Journal of Power Sources, 2014, 272, 457-467.	4.0	142
167	Thermal runaway features of large format prismatic lithium ion battery using extended volume accelerating rate calorimetry. Journal of Power Sources, 2014, 255, 294-301.	4.0	591
168	Molecular dynamics simulations of La2O3 thin films on SiO2. Journal of Energy Chemistry, 2014, 23, 282-286.	7.1	2
169	Effect of Al2O3/SiO2 composite ceramic layers on performance of polypropylene separator for lithium-ion batteries. Ceramics International, 2014, 40, 14105-14110.	2.3	60
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