Khalil Amine

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2015229/publications.pdf

Version: 2024-02-01

435	56,344	613	1456
papers	citations	124 h-index	220 g-index

456	456	456	28443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomistic Insights of Irreversible Li⁺ Intercalation in MnO₂ Electrode. Angewandte Chemie, 2022, 134, e202113420.	1.6	3
2	Atomistic Insights of Irreversible Li⁺ Intercalation in MnO₂ Electrode. Angewandte Chemie - International Edition, 2022, 61, .	7.2	8
3	Multiscale Understanding of Surface Structural Effects on Highâ€Temperature Operational Resiliency of Layered Oxide Cathodes. Advanced Materials, 2022, 34, e2107326.	11.1	21
4	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
5	Efficient diffusion of superdense lithium via atomic channels for dendrite-free lithiumâ€“metal batteries. Energy and Environmental Science, 2022, 15, 196-205.	15.6	27
6	Solvation-protection-enabled high-voltage electrolyte for lithium metal batteries. Nano Energy, 2022, 92, 106720.	8.2	34
7	High Nickel and No Cobaltâ€”The Pursuit of Next-Generation Layered Oxide Cathodes. ACS Applied Materials & Interfaces, 2022, 14, 23056-23065.	4.0	30
8	Native lattice strain induced structural earthquake in sodium layered oxide cathodes. Nature Communications, 2022, 13, 436.	5.8	29
9	Evidence of Morphological Change in Sulfur Cathodes upon Irradiation by Synchrotron X-rays. ACS Energy Letters, 2022, 7, 577-582.	8.8	7
10	Suppressing electrolyte-lithium metal reactivity via Li+-desolvation in uniform nano-porous separator. Nature Communications, 2022, 13, 172.	5.8	83
11	Ultrafast Metal Electrodeposition Revealed by In Situ Optical Imaging and Theoretical Modeling towards Fastâ€Charging Zn Battery Chemistry. Angewandte Chemie, 2022, 134, .	1.6	13
12	Ultrafast Metal Electrodeposition Revealed by In Situ Optical Imaging and Theoretical Modeling towards Fastâ€Charging Zn Battery Chemistry. Angewandte Chemie - International Edition, 2022, 61, .	7.2	82
13	Transferring Liquid Metal to form a Hybrid Solid Electrolyte via a Wettabilityâ€Tuning Technology for Lithiumâ€Metal Anodes. Advanced Materials, 2022, 34, e2200181.	11.1	28
14	Regulation of Surface Defect Chemistry toward Stable Niâ€Rich Cathodes. Advanced Materials, 2022, 34, e2200744.	11.1	41
15	In Situ Formation of Polycyclic Aromatic Hydrocarbons as an Artificial Hybrid Layer for Lithium Metal Anodes. Nano Letters, 2022, 22, 263-270.	4.5	31
16	Understanding the Role of Lithium Iodide in Lithiumâ€“Oxygen Batteries. Advanced Materials, 2022, 34, e2106148.	11.1	26
17	Impacts of Dissolved Ni²⁺ on the Solid Electrolyte Interphase on a Graphite Anode. Angewandte Chemie, 2022, 134, .	1.6	4
18	Impacts of Dissolved Ni²⁺ on the Solid Electrolyte Interphase on a Graphite Anode. Angewandte Chemie - International Edition, 2022, 61, .	7.2	31

#	Article	IF	Citations
19	Pushing Lithiumâ€“Sulfur Batteries towards Practical Working Conditions through a Cathodeâ€“Electrolyte Synergy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	14
20	Enabling high energy lithium metal batteries via single-crystal Ni-rich cathode material co-doping strategy. Nature Communications, 2022, 13, 2319.	5.8	143
21	Pushing Lithiumâ€“Sulfur Batteries towards Practical Working Conditions through a Cathodeâ€“Electrolyte Synergy. Angewandte Chemie, 2022, 134, .	1.6	2
22	Unravelling the Nature of the Intrinsic Complex Structure of Binaryâ€Phase Naâ€Layered Oxides. Advanced Materials, 2022, 34, e2202137.	11.1	21
23	How do super concentrated electrolytes push the Li-ion batteries and supercapacitors beyond their thermodynamic and electrochemical limits?. Nano Energy, 2022, 98, 107336.	8.2	21
24	InnenrÃ¼cktitelbild: Impacts of Dissolved Ni²⁺ on the Solid Electrolyte Interphase on a Graphite Anode (Angew. Chem. 30/2022). Angewandte Chemie, 2022, 134, .	1.6	0
25	Entropy and crystal-facet modulation of P2-type layered cathodes for long-lasting sodium-based batteries. Nature Communications, 2022, 13, .	5.8	61
26	Atomically dispersed Pt and Fe sites and Ptâ€“Fe nanoparticles for durable proton exchange membrane fuel cells. Nature Catalysis, 2022, 5, 503-512.	16.1	155
27	Origin and regulation of oxygen redox instability in high-voltage battery cathodes. Nature Energy, 2022, 7, 808-817.	19.8	55
28	Origin of structural degradation in Li-rich layered oxide cathode. Nature, 2022, 606, 305-312.	13.7	206
29	Recent progress in fundamental understanding of selenium-doped sulfur cathodes during charging and discharging with various electrolytes. , 2022, , 235-260.		0
30	Mesoscale-architecture-based crack evolution dictating cycling stability of advanced lithium ion batteries. Nano Energy, 2021, 79, 105420.	8.2	36
31	A high-energy and long-cycling lithiumâ€“sulfur pouch cell via a macroporous catalytic cathode with double-end binding sites. Nature Nanotechnology, 2021, 16, 166-173.	15.6	392
32	Full Concentration Gradientâ€Tailored Liâ€Rich Layered Oxides for Highâ€Energy Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2001358.	11.1	65
33	Revealing the Atomic Structures of Exposed Lateral Surfaces for Polymorphic Manganese Dioxide Nanowires. Small Structures, 2021, 2, 2000091.	6.9	18
34	In Situ Construction of Uniform and Robust Cathodeâ€“Electrolyte Interphase for Liâ€Rich Layered Oxides. Advanced Functional Materials, 2021, 31, 2009192.	7.8	81
35	Sustainable existence of solid mercury (Hg) nanoparticles at room temperature and their applications. Chemical Science, 2021, 12, 3226-3238.	3.7	10
36	In Situ Localized Polysulfide Injector for the Activation of Bulk Lithium Sulfide. Journal of the American Chemical Society, 2021, 143, 2185-2189.	6.6	31

#	Article	IF	Citations
37	Atomic/molecular layer deposition for energy storage and conversion. Chemical Society Reviews, 2021, 50, 3889-3956.	18.7	109
38	Enabling stable and high-rate cycling of a Ni-rich layered oxide cathode for lithium-ion batteries by modification with an artificial Li⁺-conducting cathode-electrolyte interphase. Journal of Materials Chemistry A, 2021, 9, 11623-11631.	5.2	33
39	Strategies towards enabling lithium metal in batteries: interphases and electrodes. Energy and Environmental Science, 2021, 14, 5289-5314.	15.6	156
40	Understanding Co roles towards developing Co-free Ni-rich cathodes for rechargeable batteries. Nature Energy, 2021, 6, 277-286.	19.8	255
41	Correlating Catalyst Design and Discharged Product to Reduce Overpotential in Liâ€CO₂ Batteries. Small, 2021, 17, e2007760.	5.2	22
42	Vacancyâ€Enabled O3 Phase Stabilization for Manganeseâ€Rich Layered Sodium Cathodes. Angewandte Chemie - International Edition, 2021, 60, 8258-8267.	7.2	59
43	Vacancyâ€Enabled O3 Phase Stabilization for Manganeseâ€Rich Layered Sodium Cathodes. Angewandte Chemie, 2021, 133, 8339-8348.	1.6	14
44	Wholeâ€Voltageâ€Range Oxygen Redox in P2â€Layered Cathode Materials for Sodiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2008194.	11.1	108
45	Solid-State Synthesis of Highly Dispersed Nitrogen-Coordinated Single Iron Atom Electrocatalysts for Proton Exchange Membrane Fuel Cells. Nano Letters, 2021, 21, 3633-3639.	4.5	32
46	A universal method to fabricating porous carbon for Li-O2 battery. Nano Energy, 2021, 82, 105782.	8.2	42
47	Unveiling decaying mechanism through quantitative structure-activity relationship in electrolytes for lithium-ion batteries. Nano Energy, 2021, 83, 105843.	8.2	23
48	LiMn2O4 spinel and substituted cathodes. Nature Energy, 2021, 6, 566-566.	19.8	81
49	Understanding the Effect of Solid Electrocatalysts on Achieving Highly Energyâ€Efficient Lithiumâ€“Oxygen Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100045.	2.8	2
50	Nanotechnology for Sulfur Cathodes. ACS Nano, 2021, 15, 8087-8094.	7.3	29
51	Complementary Electrolyte Design for Li Metal Batteries in Electric Vehicle Applications. ACS Applied Materials & Interfaces, 2021, 13, 25879-25889.	4.0	10
52	Mesocrystallizing Nanograins for Enhanced Li + Storage. Advanced Energy Materials, 2021, 11, 2100503.	10.2	5
53	Enabling Highâ€Performance NASICONâ€Based Solidâ€State Lithium Metal Batteries Towards Practical Conditions. Advanced Functional Materials, 2021, 31, 2102765.	7.8	32
54	Development of cathode-electrolyte-interphase for safer lithium batteries. Energy Storage Materials, 2021, 37, 77-86.	9.5	78

#	Article	IF	Citations
55	Toward a mechanistic understanding of electrocatalytic nanocarbon. Nature Communications, 2021, 12, 3288.	5.8	35
56	Li4Ti5O12 spinel anodes. Nature Energy, 2021, 6, 683-683.	19.8	68
57	In situ observation of thermal-driven degradation and safety concerns of lithiated graphite anode. Nature Communications, 2021, 12, 4235.	5.8	74
58	Thermal runaway mechanism of lithium-ion battery with LiNi0.8Mn0.1Co0.1O2 cathode materials. Nano Energy, 2021, 85, 105878.	8.2	116
59	Unlocking the self-supported thermal runaway of high-energy lithium-ion batteries. Energy Storage Materials, 2021, 39, 395-402.	9.5	74
60	The passivity of lithium electrodes in liquid electrolytes for secondary batteries. Nature Reviews Materials, 2021, 6, 1036-1052.	23.3	201
61	Electronic properties of Ir3Li and ultra-nanocrystalline lithium superoxide formation. Nano Energy, 2021, 90, 106549.	8.2	3
62	Electrolytes Polymerizationâ€Induced Cathodeâ€Electrolyteâ€Interphase for High Voltage Lithiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2101956.	10.2	39
63	Layered Liâ€“Niâ€“Mnâ€“Co oxide cathodes. Nature Energy, 2021, 6, 933-933.	19.8	67
64	Wood Carbon Based Single-Atom Catalyst for Rechargeable Znâ€“Air Batteries. ACS Energy Letters, 2021, 6, 3624-3633.	8.8	103
65	Laserâ€Irradiated Holey Grapheneâ€Supported Singleâ€Atom Catalyst towards Hydrogen Evolution and Oxygen Reduction. Advanced Energy Materials, 2021, 11, 2101619.	10.2	43
66	A general strategy for batch development of high-performance and cost-effective sodium layered cathodes. Nano Energy, 2021, 89, 106371.	8.2	22
67	Tunning the linkage of structure units to enable stable spinel-based cathode in the wide potential window. Nano Energy, 2021, 89, 106457.	8.2	5
68	Superior long-term cycling of high-voltage lithium-ion batteries enabled by single-solvent electrolyte. Nano Energy, 2021, 89, 106299.	8.2	21
69	In-built ultraconformal interphases enable high-safety practical lithium batteries. Energy Storage Materials, 2021, 43, 248-257.	9.5	49
70	(S)TEM-EELS as an advanced characterization technique for lithium-ion batteries. Materials Chemistry Frontiers, 2021, 5, 5186-5193.	3.2	20
71	Principle in developing novel fluorinated sulfone electrolyte for high voltage lithium-ion batteries. Energy and Environmental Science, 2021, 14, 3029-3034.	15.6	44
72	Stress- and Interface-Compatible Red Phosphorus Anode for High-Energy and Durable Sodium-Ion Batteries. ACS Energy Letters, 2021, 6, 547-556.	8.8	33

#	Article	IF	Citations
73	Prelithiated Li-Enriched Gradient Interphase toward Practical High-Energy NMCâ€“Silicon Full Cell. ACS Energy Letters, 2021, 6, 320-328.	8.8	50
74	Uncommon Behavior of Li Doping Suppresses Oxygen Redox in P2â€Type Manganeseâ€Rich Sodium Cathodes. Advanced Materials, 2021, 33, e2107141.	11.1	34
75	Rational design of mechanically robust Ni-rich cathode materials via concentration gradient strategy. Nature Communications, 2021, 12, 6024.	5.8	80
76	Highâ€Voltage and Highâ€Safety Practical Lithium Batteries with Ethylene Carbonateâ€Free Electrolyte. Advanced Energy Materials, 2021, 11, 2102299.	10.2	59
77	The importance of anode protection towards lithium oxygen batteries. Journal of Materials Chemistry A, 2020, 8, 3563-3573.	5.2	65
78	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. ACS Energy Letters, 2020, 5, 224-231.	8.8	59
79	Boosting Superior Lithium Storage Performance of Alloyâ€Based Anode Materials via Ultraconformal Sb Coatingâ€“Derived Favorable Solidâ€Electrolyte Interphase. Advanced Energy Materials, 2020, 10, 1903186.	10.2	29
80	In Situ Construction of an Ultrarobust and Lithiophilic Li-Enriched Liâ€“N Nanoshield for High-Performance Ge-Based Anode Materials. ACS Energy Letters, 2020, 5, 3490-3497.	8.8	29
81	Cation Additive Enabled Rechargeable LiOHâ€Based Lithiumâ€“Oxygen Batteries. Angewandte Chemie - International Edition, 2020, 59, 22978-22982.	7.2	29
82	Local spring effect in titanium-based layered oxides. Energy and Environmental Science, 2020, 13, 4371-4380.	15.6	13
83	Developing high safety Li-metal anodes for future high-energy Li-metal batteries: strategies and perspectives. Chemical Society Reviews, 2020, 49, 5407-5445.	18.7	264
84	Charge Transport Properties of Lithium Superoxide in Liâ€“O₂Batteries. ACS Applied Energy Materials, 2020, 3, 12575-12583.	2.5	17
85	TEM Studies on the Role of Local Chemistry and Atomic Structure in Battery Materials. Microscopy and Microanalysis, 2020, 26, 148-149.	0.2	1
86	Durable hybrid electrocatalysts for proton exchange membrane fuel cells. Nano Energy, 2020, 77, 105192.	8.2	21
87	A review of composite solid-state electrolytes for lithium batteries: fundamentals, key materials and advanced structures. Chemical Society Reviews, 2020, 49, 8790-8839.	18.7	461
88	A disordered rock salt anode for fast-charging lithium-ion batteries. Nature, 2020, 585, 63-67.	13.7	326
89	Lithium Anodes: Understanding the Reactivity of a Thin Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Solidâ€State Electrolyte toward Metallic Lithium Anode (Adv. Energy Mater. 32/2020). Advanced Energy Materials, 2020, 10, 2070136.	10.2	2
90	TiO₂ Nanocrystalâ€Framed Li₂TiSiO₅ Platelets for Lowâ€Voltage Lithium Battery Anode. Advanced Functional Materials, 2020, 30, 2001909.	7.8	25

#	Article	IF	Citations
91	Challenges and Strategies to Advance Highâ€Energy Nickelâ€Rich Layered Lithium Transition Metal Oxide Cathodes for Harsh Operation. Advanced Functional Materials, 2020, 30, 2004748.	7.8	146
92	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. Nature Communications, 2020, 11, 6373.	5.8	65
93	Titelbild: Cation Additive Enabled Rechargeable LiOHâ€Based Lithiumâ€“Oxygen Batteries (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /C	1.6	0
94	Probing the Thermal-Driven Structural and Chemical Degradation of Ni-Rich Layered Cathodes by Co/Mn Exchange. Journal of the American Chemical Society, 2020, 142, 19745-19753.	6.6	122
95	Cation Additive Enabled Rechargeable LiOHâ€Based Lithiumâ€“Oxygen Batteries. Angewandte Chemie, 2020, 132, 23178-23182.	1.6	8
96	From Sodiumâ€“Oxygen to Sodiumâ€“Air Battery: Enabled by Sodium Peroxide Dihydrate. Nano Letters, 2020, 20, 4681-4686.	4.5	31
97	Regulating the Hidden Solvationâ€Ionâ€Exchange in Concentrated Electrolytes for Stable and Safe Lithium Metal Batteries. Advanced Energy Materials, 2020, 10, 2000901.	10.2	65
98	Harnessing the surface structure to enable high-performance cathode materials for lithium-ion batteries. Chemical Society Reviews, 2020, 49, 4667-4680.	18.7	88
99	Revealing the Structural Evolution and Phase Transformation of O3-Type NaNi_{1/3}Fe_{1/3}Mn_{1/3}O₂ Cathode Material on Sintering and Cycling Processes. ACS Applied Energy Materials, 2020, 3, 6107-6114.	2.5	19
100	Probing solid-state reaction through microstrain: A case study on synthesis of LiCoO2. Journal of Power Sources, 2020, 469, 228422.	4.0	17
101	Computational study of the adsorption of bimetallic clusters on alumina substrate. Surface Science, 2020, 700, 121682.	0.8	2
102	Oxygen-Based Anion Redox for Lithium Batteries. Accounts of Chemical Research, 2020, 53, 1436-1444.	7.6	21
103	Beyond the Polysulfide Shuttle and Lithium Dendrite Formation: Addressing the Sluggish Sulfur Redox Kinetics for Practical Highâ€Energy Liâ€S Batteries. Angewandte Chemie - International Edition, 2020, 59, 17634-17640.	7.2	67
104	Beyond the Polysulfide Shuttle and Lithium Dendrite Formation: Addressing the Sluggish Sulfur Redox Kinetics for Practical Highâ€Energy Liâ€S Batteries. Angewandte Chemie, 2020, 132, 17787-17793.	1.6	10
105	Understanding the Reactivity of a Thin Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Solidâ€State Electrolyte toward Metallic Lithium Anode. Advanced Energy Materials, 2020, 10, 2001497.	10.2	49
106	Solvation Rule for Solidâ€Electrolyte Interphase Enabler in Lithiumâ€Metal Batteries. Angewandte Chemie, 2020, 132, 18386-18390.	1.6	10
107	Solvation Rule for Solidâ€Electrolyte Interphase Enabler in Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 18229-18233.	7.2	45
108	Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. Nature Reviews Materials, 2020, 5, 276-294.	23.3	284

#	Article	IF	Citations
109	Toward a high-voltage fast-charging pouch cell with TiO2 cathode coating and enhanced battery safety. Nano Energy, 2020, 71, 104643.	8.2	72
110	Optimization of oxygen electrode combined with soluble catalyst to enhance the performance of lithiumâ€“oxygen battery. Energy Storage Materials, 2020, 28, 73-81.	9.5	12
111	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. ACS Applied Materials & Interfaces, 2020, 12, 16200-16208.	4.0	15
112	Cationic and anionic redox in lithium-ion based batteries. Chemical Society Reviews, 2020, 49, 1688-1705.	18.7	152
113	A Facile Approach to High Precision Detection of Cell-to-Cell Variation for Li-ion Batteries. Scientific Reports, 2020, 10, 7182.	1.6	16
114	Bringing forward the development of battery cells for automotive applications: Perspective of R&D activities in China, Japan, the EU and the USA. Journal of Power Sources, 2020, 459, 228073.	4.0	109
115	Highly Reversible Sodiation/Desodiation from a Carbon-Sandwiched SnS₂ Nanosheet Anode for Sodium Ion Batteries. Nano Letters, 2020, 20, 3844-3851.	4.5	69
116	A practical phosphorus-based anode material for high-energy lithium-ion batteries. Nano Energy, 2020, 74, 104849.	8.2	56
117	Revisiting the Role of Conductivity and Polarity of Host Materials for Longâ€Life Lithiumâ€“Sulfur Battery. Advanced Energy Materials, 2020, 10, 1903934.	10.2	52
118	Nickel-based Cathode for Li-ion Batteries. , 2020, , 204-226.		0
119	High rate and long cycle life in Li-O2 batteries with highly efficient catalytic cathode configured with Co3O4 nanoflower. Nano Energy, 2019, 64, 103896.	8.2	71
120	Tuning Li₂O₂ Formation Routes by Facet Engineering of MnO₂ Cathode Catalysts. Journal of the American Chemical Society, 2019, 141, 12832-12838.	6.6	107
121	Selective Growth of a Discontinuous Subnanometer Pd Film on Carbon Defects for Liâ€“O₂ Batteries. ACS Energy Letters, 2019, 4, 2782-2786.	8.8	50
122	Correlation between manganese dissolution and dynamic phase stability in spinel-based lithium-ion battery. Nature Communications, 2019, 10, 4721.	5.8	182
123	Cooling Induced Surface Reconstruction during Synthesis of Highâ€Ni Layered Oxides. Advanced Energy Materials, 2019, 9, 1901915.	10.2	34
124	In Situ Formed Ir₃Li Nanoparticles as Active Cathode Material in Liâ€“Oxygen Batteries. Journal of Physical Chemistry A, 2019, 123, 10047-10056.	1.1	11
125	Silica Restricting the Sulfur Volatilization of Nickel Sulfide for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1901153.	10.2	94
126	The Role of Ru in Improving the Activity of Pd toward Hydrogen Evolution and Oxidation Reactions in Alkaline Solutions. ACS Catalysis, 2019, 9, 9614-9621.	5.5	112

#	Article	IF	Citations
127	An advanced high energy-efficiency rechargeable aluminum-selenium battery. Nano Energy, 2019, 66, 104159.	8.2	39
128	Insights into Li/Ni ordering and surface reconstruction during synthesis of Ni-rich layered oxides. Journal of Materials Chemistry A, 2019, 7, 513-519.	5.2	92
129	Rational Design of Grapheneâ€Supported Single Atom Catalysts for Hydrogen Evolution Reaction. Advanced Energy Materials, 2019, 9, 1803689.	10.2	279
130	Sub-5â€¯nm edge-rich 1Tâ€²-ReSe2 as bifunctional materials for hydrogen evolution and sodium-ion storage. Nano Energy, 2019, 58, 660-668.	8.2	41
131	Exploring the charge reactions in a Liâ€“O₂ system with lithium oxide cathodes and nonaqueous electrolytes. Journal of Materials Chemistry A, 2019, 7, 15615-15620.	5.2	6
132	Insights into Structural Evolution of Lithium Peroxides with Reduced Charge Overpotential in Liâ^O₂ System. Advanced Energy Materials, 2019, 9, 1900662.	10.2	38
133	Commercialization of Lithium Battery Technologies for Electric Vehicles. Advanced Energy Materials, 2019, 9, 1900161.	10.2	865
134	Revealing the Atomic Origin of Heterogeneous Liâ€Ion Diffusion by Probing Na. Advanced Materials, 2019, 31, e1805889.	11.1	30
135	E-fuel system: a conceptual breakthrough for energy storage. Science Bulletin, 2019, 64, 227-228.	4.3	5
136	A Selection Rule for Hydrofluoroether Electrolyte Cosolvent: Establishing a Linear Freeâ€Energy Relationship in Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2019, 131, 10701-10705.	1.6	12
137	A Selection Rule for Hydrofluoroether Electrolyte Cosolvent: Establishing a Linear Freeâ€Energy Relationship in Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2019, 58, 10591-10595.	7.2	36
138	Building ultraconformal protective layers on both secondary and primary particles of layered lithium transition metal oxide cathodes. Nature Energy, 2019, 4, 484-494.	19.8	345
139	Electrochemically primed functional redox mediator generator from the decomposition of solid state electrolyte. Nature Communications, 2019, 10, 1890.	5.8	49
140	Injection of oxygen vacancies in the bulk lattice of layered cathodes. Nature Nanotechnology, 2019, 14, 602-608.	15.6	321
141	Oxygen Release Degradation in Liâ€Ion Battery Cathode Materials: Mechanisms and Mitigating Approaches. Advanced Energy Materials, 2019, 9, 1900551.	10.2	293
142	Solvating power series of electrolyte solvents for lithium batteries. Energy and Environmental Science, 2019, 12, 1249-1254.	15.6	138
143	Intrinsic Role of Cationic Substitution in Tuning Li/Ni Mixing in High-Ni Layered Oxides. Chemistry of Materials, 2019, 31, 2731-2740.	3.2	85
144	Methacrylated gelatin-embedded fabrication of 3D graphene-supported Co3O4 nanoparticles for water splitting. Nanoscale, 2019, 11, 6866-6875.	2.8	13

#	Article	IF	Citations
145	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. Nano Energy, 2019, 61, 60-68.	8.2	192
146	Surface Modification for Suppressing Interfacial Parasitic Reactions of a Nickel-Rich Lithium-Ion Cathode. Chemistry of Materials, 2019, 31, 2723-2730.	3.2	114
147	Antiâ€Oxygen Leaking LiCoO₂. Advanced Functional Materials, 2019, 29, 1901110.	7.8	60
148	Bridging the academic and industrial metrics for next-generation practical batteries. Nature Nanotechnology, 2019, 14, 200-207.	15.6	420
149	Lithiumâ€Ion Batteries: Cooling Induced Surface Reconstruction during Synthesis of Highâ€Ni Layered Oxides (Adv. Energy Mater. 43/2019). Advanced Energy Materials, 2019, 9, 1970173.	10.2	0
150	Recent Advances in Flexible Zincâ€Based Rechargeable Batteries. Advanced Energy Materials, 2019, 9, 1802605.	10.2	296
151	Fundamental Understanding of Waterâ€Induced Mechanisms in Liâ€“O₂ Batteries: Recent Developments and Perspectives. Advanced Materials, 2019, 31, e1805602.	11.1	52
152	In situ quantification of interphasial chemistry in Li-ion battery. Nature Nanotechnology, 2019, 14, 50-56.	15.6	373
153	Impact of alginate and fluoroethylene carbonate on the electrochemical performance of SiOâ€“SnCoC anode for lithium-ion batteries. Journal of Solid State Electrochemistry, 2019, 23, 397-405.	1.2	2
154	Solidâ€State Lithium/Seleniumâ€“Sulfur Chemistry Enabled via a Robust Solidâ€Electrolyte Interphase. Advanced Energy Materials, 2019, 9, 1802235.	10.2	63
155	Cyclic carbonate for highly stable cycling of high voltage lithium metal batteries. Energy Storage Materials, 2019, 17, 284-292.	9.5	115
156	The Absence and Importance of Operando Techniques for Metalâ€Free Catalysts. Advanced Materials, 2019, 31, e1805609.	11.1	25
157	Ordering Heterogeneity of [MnO6] Octahedra in Tunnel-Structured MnO2 and Its Influence on Ion Storage. Joule, 2019, 3, 471-484.	11.7	123
158	Lithiation-Induced Non-Noble Metal Nanoparticles for Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2019, 11, 811-818.	4.0	16
159	Native Vacancy Enhanced Oxygen Redox Reversibility and Structural Robustness. Advanced Energy Materials, 2019, 9, 1803087.	10.2	70
160	Correlation between long range and local structural changes in Ni-rich layered materials during charge and discharge process. Journal of Power Sources, 2019, 412, 336-343.	4.0	109
161	A Critical Review on Superoxideâ€Based Sodiumâ€“Oxygen Batteries. Small Methods, 2019, 3, 1800247.	4.6	29
162	Insights into the Na⁺ Storage Mechanism of Phosphorusâ€Functionalized Hard Carbon as Ultrahigh Capacity Anodes. Advanced Energy Materials, 2018, 8, 1702781.	10.2	170

#	Article	IF	Citations
163	Encapsulating Various Sulfur Allotropes within Graphene Nanocages for Longâ€Lasting Lithium Storage. Advanced Functional Materials, 2018, 28, 1706443.	7.8	60
164	High-Performance Anode Materials for Rechargeable Lithium-Ion Batteries. Electrochemical Energy Reviews, 2018, 1, 35-53.	13.1	514
165	Elucidating anionic oxygen activity in lithium-rich layered oxides. Nature Communications, 2018, 9, 947.	5.8	241
166	Insight into Caâ€Substitution Effects on O3â€Type NaNi_{1/3}Fe_{1/3}Mn_{1/3}O₂ Cathode Materials for Sodiumâ€Ion Batteries Application. Small, 2018, 14, e1704523.	5.2	97
167	Identification and Implications of Lithium Superoxide in Liâ€“O₂ Batteries. ACS Energy Letters, 2018, 3, 1105-1109.	8.8	47
168	Effect of Componential Proportion in Bimetallic Electrocatalysts on the Aprotic Lithiumâ€Oxygen Battery Performance. Advanced Energy Materials, 2018, 8, 1703230.	10.2	32
169	Stabilization of a High-Capacity and High-Power Nickel-Based Cathode for Li-Ion Batteries. CheM, 2018, 4, 690-704.	5.8	128
170	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 2879-2883.	7.2	159
171	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 2929-2933.	1.6	33
172	Challenges in Developing Electrodes, Electrolytes, and Diagnostics Tools to Understand and Advance Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1702403.	10.2	221
173	High-Capacity Sodium Peroxide Based Naâ€“O₂ Batteries with Low Charge Overpotential via a Nanostructured Catalytic Cathode. ACS Energy Letters, 2018, 3, 276-277.	8.8	15
174	Modifying the Surface of a High-Voltage Lithium-Ion Cathode. ACS Applied Energy Materials, 2018, 1, 2254-2260.	2.5	46
175	Operando liquid cell electron microscopy of discharge and charge kinetics in lithium-oxygen batteries. Nano Energy, 2018, 49, 338-345.	8.2	59
176	Mechanism of the First Lithiation/Delithiation Process in the Anode Material CoFeOPO₄@C for Li-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 7139-7148.	1.5	18
177	Cations controlled growth of Î²-MnO2 crystals with tunable facets for electrochemical energy storage. Nano Energy, 2018, 48, 301-311.	8.2	56
178	Energy-driven surface evolution in beta-MnO2 structures. Nano Research, 2018, 11, 206-215.	5.8	15
179	On the P2-Na_xCo_{1â€“y}(Mn_{2/3}Ni_{1/3})yO₂ Cathode Materials for Sodium-Ion Batteries: Synthesis, Electrochemical Performance, and Redox Processes Occurring during the Electrochemical Cycling. ACS Applied Materials & Interfaces, 2018, 10, 488-501.	4.0	32
180	Asymmetric K/Li-Ion Battery Based on Intercalation Selectivity. ACS Energy Letters, 2018, 3, 65-71.	8.8	36

#	Article	IF	Citations
181	Electrostatic Self-Assembly Enabling Integrated Bulk and Interfacial Sodium Storage in 3D Titania-Graphene Hybrid. Nano Letters, 2018, 18, 336-346.	4.5	40
182	Dissolution, migration, and deposition of transition metal ions in Li-ion batteries exemplified by Mn-based cathodes â€“ a critical review. Energy and Environmental Science, 2018, 11, 243-257.	15.6	618
183	Textile Inspired Lithiumâ€“Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. Advanced Materials, 2018, 30, 1704907.	11.1	92
184	Protecting Al foils for high-voltage lithium-ion chemistries. Materials Today Energy, 2018, 7, 18-26.	2.5	24
185	Triphase electrode performance adjustment for rechargeable ion batteries. Nano Energy, 2018, 43, 1-10.	8.2	34
186	Short Hydrogen Bonds on Reconstructed Nanocrystal Surface Enhance Oxygen Evolution Activity. ACS Catalysis, 2018, 8, 466-473.	5.5	20
187	The Recycling of Spent Lithium-Ion Batteries: a Review of Current Processes and Technologies. Electrochemical Energy Reviews, 2018, 1, 461-482.	13.1	215
188	Hybrid Li-Ion and Li-O2 Battery Enabled by Oxyhalogen-Sulfur Electrochemistry. Joule, 2018, 2, 2381-2392.	11.7	14
189	Nitrogen and sulfur co-doped porous carbon sheets for energy storage and pH-universal oxygen reduction reaction. Nano Energy, 2018, 54, 192-199.	8.2	83
190	Temperature-Sensitive Structure Evolution of Lithiumâ€“Manganese-Rich Layered Oxides for Lithium-Ion Batteries. Journal of the American Chemical Society, 2018, 140, 15279-15289.	6.6	163
191	Insights into the Performance Degradation of Oxygen-Type Manganese-Rich Layered Oxide Cathodes for High-Voltage Sodium-Ion Batteries. ACS Applied Energy Materials, 2018, , .	2.5	2
192	Investigation of the Effect of Graphene-encapsulation on the O2 Release Phenomenon from LixCoO2, Studied by In-situ Heating STEM/EELS. Microscopy and Microanalysis, 2018, 24, 1626-1627.	0.2	0
193	Cationic Ordering Coupled to Reconstruction of Basic Building Units during Synthesis of High-Ni Layered Oxides. Journal of the American Chemical Society, 2018, 140, 12484-12492.	6.6	113
194	Fundamental Understanding and Material Challenges in Rechargeable Nonaqueous Liâ€“O₂ Batteries: Recent Progress and Perspective. Advanced Energy Materials, 2018, 8, 1800348.	10.2	137
195	The Relationship between the Relative Solvating Power of Electrolytes and Shuttling Effect of Lithium Polysulfides in Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2018, 57, 12033-12036.	7.2	69
196	Identifying the Structural Evolution of the Sodium Ion Battery Na₂FePO₄F Cathode. Angewandte Chemie - International Edition, 2018, 57, 11918-11923.	7.2	79
197	Identifying the Structural Evolution of the Sodium Ion Battery Na₂FePO₄F Cathode. Angewandte Chemie, 2018, 130, 12094-12099.	1.6	22
198	The Relationship between the Relative Solvating Power of Electrolytes and Shuttling Effect of Lithium Polysulfides in Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2018, 130, 12209-12212.	1.6	17

#	Article	IF	Citations
199	Probing Thermal and Chemical Stability of Na_xNi_{1/3}Fe_{1/3}Mn_{1/3}O₂ Cathode Material toward Safe Sodium-Ion Batteries. Chemistry of Materials, 2018, 30, 4909-4918.	3.2	64
200	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. Nature Nanotechnology, 2018, 13, 715-722.	15.6	964
201	Thermal Runaway of Lithium-Ion Batteries without Internal Short Circuit. Joule, 2018, 2, 2047-2064.	11.7	442
202	Solid electrolytes and interfaces in all-solid-state sodium batteries: Progress and perspective. Nano Energy, 2018, 52, 279-291.	8.2	211
203	Revealing the Rate-Limiting Li-Ion Diffusion Pathway in Ultrathick Electrodes for Li-Ion Batteries. Journal of Physical Chemistry Letters, 2018, 9, 5100-5104.	2.1	143
204	Tunnel Intergrowth Structures in Manganese Dioxide and Their Influence on Ion Storage. Microscopy and Microanalysis, 2018, 24, 1500-1501.	0.2	1
205	30 Years of Lithiumâ€Ion Batteries. Advanced Materials, 2018, 30, e1800561.	11.1	3,039
206	Internally Referenced DOSY-NMR: A Novel Analytical Method in Revealing the Solution Structure of Lithium-Ion Battery Electrolytes. Journal of Physical Chemistry Letters, 2018, 9, 3714-3719.	2.1	25
207	Insights into the Distinct Lithiation/Sodiation of Porous Cobalt Oxide by in Operando Synchrotron X-ray Techniques and Ab Initio Molecular Dynamics Simulations. Nano Letters, 2017, 17, 953-962.	4.5	30
208	Selenium and Seleniumâ€“Sulfur Chemistry for Rechargeable Lithium Batteries: Interplay of Cathode Structures, Electrolytes, and Interfaces. ACS Energy Letters, 2017, 2, 605-614.	8.8	110
209	Freestanding highly defect nitrogen-enriched carbon nanofibers for lithium ion battery thin-film anodes. Journal of Materials Chemistry A, 2017, 5, 5532-5540.	5.2	33
210	Revisiting the Corrosion of the Aluminum Current Collector in Lithium-Ion Batteries. Journal of Physical Chemistry Letters, 2017, 8, 1072-1077.	2.1	156
211	State-of-the-art characterization techniques for advanced lithium-ion batteries. Nature Energy, 2017, 2, .	19.8	337
212	Facet-Dependent Thermal Instability in LiCoO₂. Nano Letters, 2017, 17, 2165-2171.	4.5	99
213	Comprehensive Enhancement of Nanostructured Lithium-Ion Battery Cathode Materials via Conformal Graphene Dispersion. Nano Letters, 2017, 17, 2539-2546.	4.5	81
214	Depolarization effect to enhance the performance of lithium ions batteries. Nano Energy, 2017, 33, 497-507.	8.2	79
215	Parasitic Reactions in Nanosized Silicon Anodes for Lithium-Ion Batteries. Nano Letters, 2017, 17, 1512-1519.	4.5	122
216	Tuning the Solid Electrolyte Interphase for Selective Liâ€and Naâ€Ion Storage in Hard Carbon. Advanced Materials, 2017, 29, 1606860.	11.1	157

#	Article	IF	Citations
217	Toward Highly Efficient Electrocatalyst for Liâ€“O₂ Batteries Using Biphasic N-Doping Cobalt@Graphene Multiple-Capsule Heterostructures. Nano Letters, 2017, 17, 2959-2966.	4.5	91
218	Openâ€Structured V₂O₅Â·nH₂O Nanoflakes as Highly Reversible Cathode Material for Monovalent and Multivalent Intercalation Batteries. Advanced Energy Materials, 2017, 7, 1602720.	10.2	116
219	Lithium Superoxide Hydrolysis and Relevance to Liâ€“O₂ Batteries. Journal of Physical Chemistry C, 2017, 121, 9657-9661.	1.5	41
220	Electrolyte design strategies and research progress for room-temperature sodium-ion batteries. Energy and Environmental Science, 2017, 10, 1075-1101.	15.6	459
221	Holey two-dimensional transition metal oxide nanosheets for efficient energy storage. Nature Communications, 2017, 8, 15139.	5.8	343
222	Mass and charge transport relevant to the formation of toroidal lithium peroxide nanoparticles in an aprotic lithium-oxygen battery: An experimental and theoretical modeling study. Nano Research, 2017, 10, 4327-4336.	5.8	12
223	Oxygenâ€Rich Lithium Oxide Phases Formed at High Pressure for Potential Lithiumâ€“Air Battery Electrode. Advanced Science, 2017, 4, 1600453.	5.6	22
224	Sodium Peroxide Dihydrate or Sodium Superoxide: The Importance of the Cell Configuration for Sodiumâ€“Oxygen Batteries. Small Methods, 2017, 1, 1700102.	4.6	34
225	Insights into the structural effects of layered cathode materials for high voltage sodium-ion batteries. Energy and Environmental Science, 2017, 10, 1677-1693.	15.6	143
226	Two-Dimensional Holey Co₃O₄ Nanosheets for High-Rate Alkali-Ion Batteries: From Rational Synthesis to in Situ Probing. Nano Letters, 2017, 17, 3907-3913.	4.5	158
227	Unique aqueous Li-ion/sulfur chemistry with high energy density and reversibility. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6197-6202.	3.3	151
228	Burning lithium in CS2 for high-performing compact Li2Sâ€“graphene nanocapsules for Liâ€“SÂbatteries. Nature Energy, 2017, 2, .	19.8	349
229	Advanced Lithium Batteries for Automobile Applications at ABAA-9. ACS Energy Letters, 2017, 2, 1628-1631.	8.8	4
230	Structure dependent electrochemical performance of Li-rich layered oxides in lithium-ion batteries. Nano Energy, 2017, 35, 370-378.	8.2	116
231	Solid state synthesis of layered sodium manganese oxide for sodium-ion battery by in-situ high energy X-ray diffraction and X-ray absorption near edge spectroscopy. Journal of Power Sources, 2017, 341, 114-121.	4.0	23
232	3D Hierarchical nano-flake/micro-flower iron fluoride with hydration water induced tunnels for secondary lithium battery cathodes. Nano Energy, 2017, 32, 10-18.	8.2	73
233	Correlations between Transition-Metal Chemistry, Local Structure, and Global Structure in Li₂Ru_{0.5}Mn_{0.5}O₃ Investigated in a Wide Voltage Window. Chemistry of Materials, 2017, 29, 9053-9065.	3.2	40
234	Synthetic Control of Kinetic Reaction Pathway and Cationic Ordering in Highâ€Ni Layered Oxide Cathodes. Advanced Materials, 2017, 29, 1606715.	11.1	127

#	Article	IF	Citations
235	Understanding materials challenges for rechargeable ion batteries with in situ transmission electron microscopy. Nature Communications, 2017, 8, .	5.8	301
236	Lithium titanate hydrates with superfast and stable cycling in lithium ion batteries. Nature Communications, 2017, 8, 627.	5.8	110
237	Metalâ€Ion Batteries: Openâ€Structured V₂O₅Â·nH₂O Nanoflakes as Highly Reversible Cathode Material for Monovalent and Multivalent Intercalation Batteries (Adv. Energy Mater. 14/2017). Advanced Energy Materials, 2017, 7, .	10.2	23
238	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance. Nano Letters, 2017, 17, 6018-6026.	4.5	53
239	In Situ TEM Investigation of ZnO Nanowires during Sodiation and Lithiation Cycling. Small Methods, 2017, 1, 1700202.	4.6	45
240	Mechanistic Study of Electrolyte Additives to Stabilize High-Voltage Cathodeâ€“Electrolyte Interface in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 44542-44549.	4.0	58
241	Enabling the high capacity of lithium-rich anti-fluorite lithium iron oxide by simultaneous anionic and cationic redox. Nature Energy, 2017, 2, 963-971.	19.8	140
242	Exploring Highly Reversible 1.5-Electron Reactions (V³⁺/V⁴⁺/V⁵⁺) in Na₃VCr(PO₄)₃ Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 43632-43639.	4.0	134
243	Interfacial reactions in lithium batteries. Journal Physics D: Applied Physics, 2017, 50, 303001.	1.3	13
244	In Situ Probing and Synthetic Control of Cationic Ordering in Niâ€Rich Layered Oxide Cathodes. Advanced Energy Materials, 2017, 7, 1601266.	10.2	200
245	High performance lithium-manganese-rich cathode material with reduced impurities. Nano Energy, 2017, 31, 247-257.	8.2	25
246	Tuning the Mn Deposition on the Anode to Improve the Cycle Performance of the Mnâ€Based Lithium Ion Battery. Advanced Materials Interfaces, 2016, 3, 1500856.	1.9	35
247	3Dâ€Printed Cathodes of LiMn_{1â^'}_xFe_xPO₄ Nanocrystals Achieve Both Ultrahigh Rate and High Capacity for Advanced Lithiumâ€Ion Battery. Advanced Energy Materials, 2016, 6, 1600856.	10.2	157
248	Highâ€Rate, Durable Sodiumâ€Ion Battery Cathode Enabled by Carbonâ€Coated Microâ€Sized Na₃V₂(PO₄)₃ Particles with Interconnected Vertical Nanowalls. Advanced Materials Interfaces, 2016, 3, 1500740.	1.9	46
249	Enabling high energy density Li-ion batteries through Li2O activation. Nano Energy, 2016, 27, 196-201.	8.2	75
250	Nitrogenâ€Doped Nanoporous Graphenic Carbon: An Efficient Conducting Support for O₂ Cathode. ChemNanoMat, 2016, 2, 692-697.	1.5	38
251	Investigating Side Reactions and Coating Effects on High Voltage Layered Cathodes for Lithium Ion Batteries. Microscopy and Microanalysis, 2016, 22, 1312-1313.	0.2	0
252	Microstructural Evolution in Transition-metal-oxide Cathode Materials for Lithium-Ion Batteries. Microscopy and Microanalysis, 2016, 22, 1300-1301.	0.2	2

#	Article	IF	Citations
253	The role of nanotechnology in the development of battery materials for electric vehicles. Nature Nanotechnology, 2016, 11, 1031-1038.	15.6	581
254	Insight into the Capacity Fading Mechanism of Amorphous Se₂S₅ Confined in Micro/Mesoporous Carbon Matrix in Ether-Based Electrolytes. Nano Letters, 2016, 16, 2663-2673.	4.5	83
255	Uniformly dispersed FeO x atomic clusters by pulsed arc plasma deposition: An efficient electrocatalyst for improving the performance of Liâ€“O2 battery. Nano Research, 2016, 9, 1913-1920.	5.8	16
256	Nanostructured Black Phosphorus/Ketjenblackâ€“Multiwalled Carbon Nanotubes Composite as High Performance Anode Material for Sodium-Ion Batteries. Nano Letters, 2016, 16, 3955-3965.	4.5	246
257	Atomic Layer Deposition for Lithiumâ€Based Batteries. Advanced Materials Interfaces, 2016, 3, 1600564.	1.9	71
258	Systematic study on the discharge product of Pt-based lithium oxygen batteries. Journal of Power Sources, 2016, 332, 96-102.	4.0	20
259	Insights into the Effects of Zinc Doping on Structural Phase Transition of P2-Type Sodium Nickel Manganese Oxide Cathodes for High-Energy Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 22227-22237.	4.0	177
260	RuO2 nanoparticles supported on MnO2 nanorods as high efficient bifunctional electrocatalyst of lithium-oxygen battery. Nano Energy, 2016, 28, 63-70.	8.2	88
261	New Insights into the Instability of Discharge Products in Naâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20120-20127.	4.0	63
262	Platinumâ€Coated Hollow Graphene Nanocages as Cathode Used in Lithiumâ€Oxygen Batteries. Advanced Functional Materials, 2016, 26, 7626-7633.	7.8	88
263	In Operando XRD and TXM Study on the Metastable Structure Change of NaNi_{1/3}Fe_{1/3}Mn_{1/3}O₂ under Electrochemical Sodiumâ€ion Intercalation. Advanced Energy Materials, 2016, 6, 1601306.	10.2	147
264	Facile Synthesis of Boron-Doped rGO as Cathode Material for High Energy Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23635-23645.	4.0	93
265	The influence of large cations on the electrochemical properties of tunnel-structured metal oxides. Nature Communications, 2016, 7, 13374.	5.8	180
266	Cascading Boost Effect on the Capacity of Nitrogen-Doped Graphene Sheets for Li- and Na-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 26722-26729.	4.0	46
267	Tuning of Thermal Stability in Layered Li(Ni_xMn_yCo_z)O₂. Journal of the American Chemical Society, 2016, 138, 13326-13334.	6.6	178
268	High Capacity of Hard Carbon Anode in Na-Ion Batteries Unlocked by PO_x Doping. ACS Energy Letters, 2016, 1, 395-401.	8.8	172
269	Freestanding three-dimensional coreâ€“shell nanoarrays for lithium-ion battery anodes. Nature Communications, 2016, 7, 11774.	5.8	143
270	Anion-redox nanolithia cathodes for Li-ion batteries. Nature Energy, 2016, 1, .	19.8	171

#	Article	IF	Citations
271	Protocol of Electrochemical Test and Characterization of Aprotic Li-O₂ Battery. Journal of Visualized Experiments, 2016, , .	0.2	2
272	An Effectively Activated Hierarchical Nanoâ€/Microspherical Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ Cathode for Longâ€Life and Highâ€Rate Lithiumâ€Ion Batteries. ChemSusChem, 2016, 9, 728-735.	3.6	65
273	Pre-Lithiation of Li(Ni_{1-x-y}Mn_xCo_y)O₂ Materials Enabling Enhancement of Performance for Li-Ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 15361-15368.	4.0	32
274	Kinetic Study of Parasitic Reactions in Lithium-Ion Batteries: A Case Study on LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂. ACS Applied Materials & Interfaces, 2016, 8, 3446-3451.	4.0	88
275	Dynamic study of (De)sodiation in alpha-MnO2 nanowires. Nano Energy, 2016, 19, 382-390.	8.2	54
276	Solar-powered electrochemical energy storage: an alternative to solar fuels. Journal of Materials Chemistry A, 2016, 4, 2766-2782.	5.2	109
277	Probing cation intermixing in Li₂SnO₃. RSC Advances, 2016, 6, 31559-31564.	1.7	10
278	Mg-Enriched Engineered Carbon from Lithium-Ion Battery Anode for Phosphate Removal. ACS Applied Materials & Interfaces, 2016, 8, 2905-2909.	4.0	40
279	Solid-State Li-Ion Batteries Using Fast, Stable, Glassy Nanocomposite Electrolytes for Good Safety and Long Cycle-Life. Nano Letters, 2016, 16, 1960-1968.	4.5	124
280	Understanding atomic scale phenomena within the surface layer of a long-term cycled 5 V spinel electrode. Nano Energy, 2016, 19, 297-306.	8.2	18
281	A lithiumâ€“oxygen battery based on lithium superoxide. Nature, 2016, 529, 377-382.	13.7	633
282	Atomic to Nanoscale Investigation of Functionalities of an Al₂O₃ Coating Layer on a Cathode for Enhanced Battery Performance. Chemistry of Materials, 2016, 28, 857-863.	3.2	125
283	Insight into the Catalytic Mechanism of Bimetallic Platinumâ€“Copper Coreâ€“Shell Nanostructures for Nonaqueous Oxygen Evolution Reactions. Nano Letters, 2016, 16, 781-785.	4.5	39
284	Synthesis of full concentration gradient cathode studied by high energy X-ray diffraction. Nano Energy, 2016, 19, 522-531.	8.2	66
285	Microstructural Characterization of Air Electrode Architectures in Lithium-Oxygen Batteries. Microscopy and Microanalysis, 2015, 21, 1373-1374.	0.2	3
286	Progress in Mechanistic Understanding and Characterization Techniques of Liâ€S Batteries. Advanced Energy Materials, 2015, 5, 1500408.	10.2	400
287	Scalable Preparation of Ternary Hierarchical Silicon Oxideâ€“Nickelâ€“Graphite Composites for Lithiumâ€Ion Batteries. ChemSusChem, 2015, 8, 4073-4080.	3.6	40
288	A Rigid Naphthalenediimide Triangle for Organic Rechargeable Lithiumâ€Ion Batteries. Advanced Materials, 2015, 27, 2907-2912.	11.1	145

#	Article	IF	Citations
289	Lithiumâ€Rich Nanoscale Li_{1.2}Mn_{0.54}Ni_{0.13}Co_{0.13}O₂ Cathode Material Prepared by Coâ€Precipitation Combined Freeze Drying (CPâ€“FD) for Lithiumâ€Ion Batteries. Energy Technology, 2015, 3, 843-850.	1.8	46
290	Highâ€Speed Fabrication of Lithiumâ€Ion Battery Electrodes by UVâ€Curing. Energy Technology, 2015, 3, 469-475.	1.8	13
291	Dimeric [Mo₂S₁₂]^{2â^'} Cluster: A Molecular Analogue of MoS₂ Edges for Superior Hydrogenâ€Evolution Electrocatalysis. Angewandte Chemie - International Edition, 2015, 54, 15181-15185.	7.2	160
292	Exploring Lithium-ion Battery Performance through in situ Characterization. Microscopy and Microanalysis, 2015, 21, 1541-1542.	0.2	0
293	Anion Solvation in Carbonate-Based Electrolytes. Journal of Physical Chemistry C, 2015, 119, 27255-27264.	1.5	121
294	Frontispiece: Implications of the Unpaired Spins in Li-O2Battery Chemistry and Electrochemistry: A Minireview. ChemPlusChem, 2015, 80, n/a-n/a.	1.3	0
295	Demonstration of highly efficient lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 4170-4179.	5.2	51
296	Interfacial Effects on Lithium Superoxide Disproportionation in Li-O₂ Batteries. Nano Letters, 2015, 15, 1041-1046.	4.5	92
297	A generalized method for high throughput in-situ experiment data analysis: An example of battery materials exploration. Journal of Power Sources, 2015, 279, 246-251.	4.0	11
298	Nanostructured cathode materials for rechargeable lithium batteries. Journal of Power Sources, 2015, 283, 219-236.	4.0	97
299	Enhanced rate performance of LiNi0.5Mn1.5O4 fibers synthesized by electrospinning. Nano Energy, 2015, 15, 616-624.	8.2	27
300	Study on the Catalytic Activity of Noble Metal Nanoparticles on Reduced Graphene Oxide for Oxygen Evolution Reactions in Lithiumâ€“Air Batteries. Nano Letters, 2015, 15, 4261-4268.	4.5	149
301	Kinetics Tuning of Li-Ion Diffusion in Layered Li(Ni_xMn_yCo_z)O₂. Journal of the American Chemical Society, 2015, 137, 8364-8367.	6.6	292
302	Atomic-Resolution Visualization of Distinctive Chemical Mixing Behavior of Ni, Co, and Mn with Li in Layered Lithium Transition-Metal Oxide Cathode Materials. Chemistry of Materials, 2015, 27, 5393-5401.	3.2	108
303	Prelithiation Activates Li(Ni_{0.5}Mn_{0.3}Co_{0.2})O₂ for High Capacity and Excellent Cycling Stability. Nano Letters, 2015, 15, 5590-5596.	4.5	68
304	Improvement of Electrochemical Properties of Lithiumâ€“Oxygen Batteries Using a Silver Electrode. Journal of Physical Chemistry C, 2015, 119, 15036-15040.	1.5	22
305	Improve First-Cycle Efficiency and Rate Performance of Layered-Layered Li_{1.2}Mn_{0.6}Ni_{0.2}O₂Using Oxygen Stabilizing Dopant. ACS Applied Materials & Interfaces, 2015, 7, 16040-16045.	4.0	42
306	Design of surface protective layer of LiF/FeF3 nanoparticles in Li-rich cathode for high-capacity Li-ion batteries. Nano Energy, 2015, 15, 164-176.	8.2	162

#	Article	IF	Citations
307	Theoretical Exploration of Various Lithium Peroxide Crystal Structures in a Li-Air Battery. Energies, 2015, 8, 529-548.	1.6	13
308	An organophosphine oxide redox shuttle additive that delivers long-term overcharge protection for 4 V lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 10710-10714.	5.2	24
309	The migration mechanism of transition metal ions in LiNi_{0.5}Mn_{1.5}O₄. Journal of Materials Chemistry A, 2015, 3, 13031-13038.	5.2	20
310	Lithiumâ€Ion Batteries: A Rigid Naphthalenediimide Triangle for Organic Rechargeable Lithiumâ€Ion Batteries (Adv. Mater. 18/2015). Advanced Materials, 2015, 27, 2948-2948.	11.1	1
311	Pd nanoparticles on ZnO-passivated porous carbon by atomic layer deposition: an effective electrochemical catalyst for Li-O2 battery. Nanotechnology, 2015, 26, 164003.	1.3	25
312	PEDOT-PSS coated ZnO/C hierarchical porous nanorods as ultralong-life anode material for lithium ion batteries. Nano Energy, 2015, 18, 253-264.	8.2	89
313	Reviewâ€"Understanding and Mitigating Some of the Key Factors that Limit Non-Aqueous Lithium-Air Battery Performance. Journal of the Electrochemical Society, 2015, 162, A2439-A2446.	1.3	27
314	Î³-Fe₂O₃ Nanocrystalline Microspheres with Hybrid Behavior of Battery-Supercapacitor for Superior Lithium Storage. ACS Applied Materials & Interfaces, 2015, 7, 26284-26290.	4.0	58
315	Evolution of Lattice Structure and Chemical Composition of the Surface Reconstruction Layer in Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ Cathode Material for Lithium Ion Batteries. Nano Letters, 2015, 15, 514-522.	4.5	261
316	Synthesis of high capacity cathodes for lithium-ion batteries by morphology-tailored hydroxide co-precipitation. Journal of Power Sources, 2015, 274, 451-457.	4.0	57
317	Implications of the Unpaired Spins in Liâ€"O₂ Battery Chemistry and Electrochemistry: A Minireview. ChemPlusChem, 2015, 80, 336-343.	1.3	17
318	Symmetrical Impedance Study on Inactivation Induced Degradation of Lithium Electrodes for Batteries Beyond Lithium-Ion. Journal of the Electrochemical Society, 2014, 161, A827-A830.	1.3	63
319	Rechargeable lithium batteries and beyond: Progress, challenges, and future directions. MRS Bulletin, 2014, 39, 395-401.	1.7	226
320	Effectively suppressing dissolution of manganese from spinel lithium manganate via a nanoscale surface-doping approach. Nature Communications, 2014, 5, 5693.	5.8	255
321	Molecular Engineering toward Stabilized Interface: An Electrolyte Additive for High-Performance Li-Ion Battery. Journal of the Electrochemical Society, 2014, 161, A2262-A2267.	1.3	10
322	Insight into Sulfur Reactions in Liâ€"S Batteries. ACS Applied Materials & Interfaces, 2014, 6, 21938-21945.	4.0	120
323	Anatase Titania Nanorods as an Intercalation Anode Material for Rechargeable Sodium Batteries. Nano Letters, 2014, 14, 416-422.	4.5	422
324	Separator/Electrode Assembly Based on Thermally Stable Polymer for Safe Lithiumâ€Ion Batteries. Advanced Energy Materials, 2014, 4, 1301208.	10.2	19

#	Article	IF	Citations
325	Aprotic and Aqueous Liâ€“O₂ Batteries. Chemical Reviews, 2014, 114, 5611-5640.	23.0	975
326	Understanding the Rate Capability of Highâ€Energyâ€Density Liâ€Rich Layered Li_{1.2}Ni_{0.15}Co_{0.1}Mn_{0.55}O₂ Cathode Materials. Advanced Energy Materials, 2014, 4, 1300950.	10.2	480
327	Investigation of the Decomposition Mechanism of Lithium Bis(oxalate)borate (LiBOB) Salt in the Electrolyte of an Aprotic Liâ€“O₂ Battery. Energy Technology, 2014, 2, 348-354.	1.8	13
328	Controllable crystalline preferred orientation in Liâ€“Coâ€“Niâ€“Mn oxide cathode thin films for all-solid-state lithium batteries. Nanoscale, 2014, 6, 10611.	2.8	41
329	Migration of Mn cations in delithiated lithium manganese oxides. Physical Chemistry Chemical Physics, 2014, 16, 20697-20702.	1.3	22
330	A XANES study of LiVPO4F: a factor analysis approach. Physical Chemistry Chemical Physics, 2014, 16, 3254.	1.3	19
331	Liâ€“Se battery: absence of lithium polyselenides in carbonate based electrolyte. Chemical Communications, 2014, 50, 5576-5579.	2.2	155
332	Molecularâ€Level Insights into the Reactivity of Siloxaneâ€Based Electrolytes at a Lithiumâ€Metal Anode. ChemPhysChem, 2014, 15, 2077-2083.	1.0	9
333	Effect of the size-selective silver clusters on lithium peroxide morphology in lithiumâ€“oxygen batteries. Nature Communications, 2014, 5, 4895.	5.8	186
334	Nanorod and Nanoparticle Shells in Concentration Gradient Coreâ€“Shell Lithium Oxides for Rechargeable Lithium Batteries. ChemSusChem, 2014, 7, 3295-3303.	3.6	18
335	Ultrasonic-assisted co-precipitation to synthesize lithium-rich cathode Li1.3Ni0.21Mn0.64O2+ materials for lithium-ion batteries. Journal of Power Sources, 2014, 272, 922-928.	4.0	22
336	High Electrochemical Performances of Microsphere C-TiO₂ Anode for Sodium-Ion Battery. ACS Applied Materials & Interfaces, 2014, 6, 11295-11301.	4.0	213
337	High Capacity O3-Type Na[Li_{0.05}(Ni_{0.25}Fe_{0.25}Mn_{0.5})_{0.95}]O₂ Cathode for Sodium Ion Batteries. Chemistry of Materials, 2014, 26, 6165-6171.	8.6	175
338	Probing Thermally Induced Decomposition of Delithiated Li_{1.2â€“x}Ni_{0.15}Mn_{0.55}Co_{0.1}O₂ by in Situ High-Energy X-ray Diffraction. ACS Applied Materials & Interfaces, 2014, 6, 12692-12697.	4.0	47
339	Differentiating allotropic LiCoO2/Li2Co2O4: A structural and electrochemical study. Journal of Power Sources, 2014, 271, 97-103.	4.0	24
340	Development of Microstrain in Aged Lithium Transition Metal Oxides. Nano Letters, 2014, 14, 4873-4880.	4.5	171
341	Raman Evidence for Late Stage Disproportionation in a Liâ€“O₂ Battery. Journal of Physical Chemistry Letters, 2014, 5, 2705-2710.	2.1	144
342	Advanced Na[Ni_{0.25}Fe_{0.5}Mn_{0.25}]O₂/Câ€“Fe₃O₄ Sodium-Ion Batteries Using EMS Electrolyte for Energy Storage. Nano Letters, 2014, 14, 1620-1626.	11.5	283

#	Article	IF	Citations
343	Nanoarchitecture Multiâ€Structural Cathode Materials for High Capacity Lithium Batteries. Advanced Functional Materials, 2013, 23, 1070-1075.	7.8	169
344	Titaniumâ€Based Anode Materials for Safe Lithiumâ€Ion Batteries. Advanced Functional Materials, 2013, 23, 959-969.	7.8	456
345	Formation of a Continuous Solidâ€Solution Particle and its Application to Rechargeable Lithium Batteries. Advanced Functional Materials, 2013, 23, 1028-1036.	7.8	39
346	Compatibility of lithium salts with solvent of the non-aqueous electrolyte in Liâ€“O2 batteries. Physical Chemistry Chemical Physics, 2013, 15, 5572.	1.3	76
347	Interactions of Dimethoxy Ethane with Li₂O₂ Clusters and Likely Decomposition Mechanisms for Liâ€“O₂ Batteries. Journal of Physical Chemistry C, 2013, 117, 8041-8049.	1.5	74
348	A high performance separator with improved thermal stability for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 8538.	5.2	33
349	A nanostructured cathode architecture for low charge overpotential in lithium-oxygen batteries. Nature Communications, 2013, 4, 2383.	5.8	379
350	Synthesis of Porous Carbon Supported Palladium Nanoparticle Catalysts by Atomic Layer Deposition: Application for Rechargeable Lithiumâ€“O₂ Battery. Nano Letters, 2013, 13, 4182-4189.	4.5	184
351	Disproportionation in Liâ€“O₂ Batteries Based on a Large Surface Area Carbon Cathode. Journal of the American Chemical Society, 2013, 135, 15364-15372.	6.6	282
352	Graphene-Based Three-Dimensional Hierarchical Sandwich-type Architecture for High-Performance Li/S Batteries. Nano Letters, 2013, 13, 4642-4649.	4.5	385
353	Mn(II) deposition on anodes and its effects on capacity fade in spinel lithium manganateâ€“carbon systems. Nature Communications, 2013, 4, 2437.	5.8	409
354	Study of Thermal Decomposition of Li_{1â€x}(Ni_{1/3}Mn_{1/3}Co_{1/3})_{0.9}O₂ Using Inâ€Situ Highâ€Energy Xâ€Ray Diffraction. Advanced Energy Materials, 2013, 3, 729-736.	10.2	48
355	3-Hexylthiophene as a Stabilizing Additive for High Voltage Cathodes in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A268-A271.	1.3	55
356	The Effect of Oxygen Crossover on the Anode of a Liâ€“O₂ Battery using an Etherâ€Based Solvent: Insights from Experimental and Computational Studies. ChemSusChem, 2013, 6, 51-55.	3.6	231
357	Silicon-Graphene Composite Anodes for High-Energy Lithium Batteries. Energy Technology, 2013, 1, 77-84.	1.8	18
358	In situ high-energy X-ray diffraction to study overcharge abuse of 18650-size lithium-ion battery. Journal of Power Sources, 2013, 230, 32-37.	4.0	91
359	Ultrasound Assisted Design of Sulfur/Carbon Cathodes with Partially Fluorinated Ether Electrolytes for Highly Efficient Li/S Batteries. Advanced Materials, 2013, 25, 1608-1615.	11.1	224
360	In situ fabrication of porous-carbon-supported Î±-MnO2 nanorods at room temperature: application for rechargeable Liâ€“O2 batteries. Energy and Environmental Science, 2013, 6, 519.	15.6	175

#	Article	IF	Citations
361	New class of nonaqueous electrolytes for long-life and safe lithium-ion batteries. Nature Communications, 2013, 4, 1513.	5.8	115
362	Improvement of long-term cycling performance of Li[Ni0.8Co0.15Al0.05]O2 by AlF3 coating. Journal of Power Sources, 2013, 234, 201-207.	4.0	237
363	Formation of the Spinel Phase in the Layered Composite Cathode Used in Li-Ion Batteries. ACS Nano, 2013, 7, 760-767.	7.3	772
364	Cathode Material with Nanorod Structureâ€"An Application for Advanced High-Energy and Safe Lithium Batteries. Chemistry of Materials, 2013, 25, 2109-2115.	3.2	137
365	Fluorinated electrolytes for 5 V lithium-ion battery chemistry. Energy and Environmental Science, 2013, 6, 1806.	15.6	462
366	Nanoscale Phase Separation, Cation Ordering, and Surface Chemistry in Pristine Li_{1.2}Ni_{0.2}Mn_{0.6}O₂for Li-Ion Batteries. Chemistry of Materials, 2013, 25, 2319-2326.	3.2	173
367	Synthesis and characterization of uniformly dispersed Fe3O4/Fe nanocomposite on porous carbon: application for rechargeable Liâ€"O2 batteries. RSC Advances, 2013, 3, 8276.	1.7	54
368	(De)Lithiation Mechanism of Li/SeS_x (x = 0â€"7) Batteries Determined by in Situ Synchrotron X-ray Diffraction and X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2013, 135, 8047-8056.	6.6	332
369	Evidence for lithium superoxide-like species in the discharge product of a Liâ€"O2 battery. Physical Chemistry Chemical Physics, 2013, 15, 3764.	1.3	188
370	Mechanically alloyed composite anode materials based on SiOâ€"SnxFeyCz for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 4376.	5.2	24
371	Recent Research Progress on Non-aqueous Lithium-Air Batteries from Argonne National Laboratory. Energies, 2013, 6, 6016-6044.	1.6	46
372	Silicon-Graphene Composite Anodes for High-Energy Lithium Batteries. Energy Technology, 2013, 1, 77-84.	1.8	118
373	Molecular engineering towards safer lithium-ion batteries: a highly stable and compatible redox shuttle for overcharge protection. Energy and Environmental Science, 2012, 5, 8204.	15.6	105
374	A New Class of Lithium and Sodium Rechargeable Batteries Based on Selenium and Seleniumâ€"Sulfur as a Positive Electrode. Journal of the American Chemical Society, 2012, 134, 4505-4508.	6.6	534
375	Chemistry and electrochemistry of concentric ring cathode Li1.42Ni0.25Mn0.75O2+Î³ for lithium batteries. Journal of Materials Chemistry, 2012, 22, 12039.	6.7	18
376	Sodium insertion in carboxylate based materials and their application in 3.6 V full sodium cells. Energy and Environmental Science, 2012, 5, 9632.	15.6	235
377	Nanostructured high-energy cathode materials for advanced lithium batteries. Nature Materials, 2012, 11, 942-947.	13.3	921
378	Challenges Facing Lithium Batteries and Electrical Doubleâ€Layer Capacitors. Angewandte Chemie - International Edition, 2012, 51, 9994-10024.	7.2	2,407

#	Article	IF	Citations
379	A Metal-Free, Lithium-Ion Oxygen Battery: A Step Forward to Safety in Lithium-Air Batteries. Nano Letters, 2012, 12, 5775-5779.	4.5	148
380	Conflicting Roles of Nickel in Controlling Cathode Performance in Lithium Ion Batteries. Nano Letters, 2012, 12, 5186-5191.	4.5	231
381	Smart Polymeric Cathode Material with Intrinsic Overcharge Protection Based on a 2,5â€Diâ€tertâ€butylâ€1,4â€dimethoxybenzene Core Structure. Advanced Functional Materials, 2012, 22, 4485-4492.	7.8	7
382	The Role of AlF₃ Coatings in Improving Electrochemical Cycling of Liâ€Enriched Nickelâ€Manganese Oxide Electrodes for Liâ€Ion Batteries. Advanced Materials, 2012, 24, 1192-1196.	11.1	629
383	Batteries: The Role of AlF3 Coatings in Improving Electrochemical Cycling of Li-Enriched Nickel-Manganese Oxide Electrodes for Li-Ion Batteries (Adv. Mater. 9/2012). Advanced Materials, 2012, 24, 1276-1276.	11.1	8
384	Doubleâ€Structured LiMn_{0.85}Fe_{0.15}PO₄ Coordinated with LiFePO₄ for Rechargeable Lithium Batteries. Angewandte Chemie - International Edition, 2012, 51, 1853-1856.	7.2	102
385	Growth mechanism of Ni0.3Mn0.7CO3 precursor for high capacity Li-ion battery cathodes. Journal of Materials Chemistry, 2011, 21, 9290.	6.7	119
386	Composition-Tailored Synthesis of Gradient Transition Metal Precursor Particles for Lithium-Ion Battery Cathode Materials. Chemistry of Materials, 2011, 23, 1954-1963.	3.2	106
387	Combining the Pair Distribution Function and Computational Methods To Understand Lithium Insertion in Brookite (TiO₂). Inorganic Chemistry, 2011, 50, 5855-5857.	1.9	20
388	Computational Studies of Polysiloxanes: Oxidation Potentials and Decomposition Reactions. Journal of Physical Chemistry C, 2011, 115, 12216-12223.	1.5	89
389	Multi-scale study of thermal stability of lithiated graphite. Energy and Environmental Science, 2011, 4, 4023.	15.6	140
390	Dual Lithium Insertion and Conversion Mechanisms in a Titanium-Based Mixed-Anion Nanocomposite. Journal of the American Chemical Society, 2011, 133, 13240-13243.	6.6	34
391	Mechanism of capacity fade of MCMB/Li1.1[Ni1/3Mn1/3Co1/3]0.9O2 cell at elevated temperature and additives to improve its cycle life. Journal of Materials Chemistry, 2011, 21, 17754.	6.7	89
392	Solid state synthesis of LiFePO4 studied by in situ high energy X-ray diffraction. Journal of Materials Chemistry, 2011, 21, 5604.	6.7	49
393	Advanced cathode materials for lithium-ion batteries. MRS Bulletin, 2011, 36, 498-505.	1.7	40
394	Toward high surface area TiO2 brookite with morphology control. Journal of Materials Chemistry, 2011, 21, 3085.	6.7	33
395	Microscale spherical carbon-coated Li4Ti5O12 as ultra high power anode material for lithium batteries. Energy and Environmental Science, 2011, 4, 1345.	15.6	433
396	A novel concentration-gradient Li[Ni0.83Co0.07Mn0.10]O2 cathode material for high-energy lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 10108.	6.7	126

#	Article	IF	Citations
397	Novel redox shuttle additive for high-voltage cathode materials. Energy and Environmental Science, 2011, 4, 2858.	15.6	70
398	Novel functionalized electrolyte for MCMB/Li1.156Mn1.844O4 lithium-ion cells. Energy and Environmental Science, 2011, 4, 4567.	15.6	13
399	Increased Stability Toward Oxygen Reduction Products for Lithium-Air Batteries with Oligoether-Functionalized Silane Electrolytes. Journal of Physical Chemistry C, 2011, 115, 25535-25542.	1.5	166
400	Fused ring and linking groups effect on overcharge protection for lithium-ion batteries. Journal of Power Sources, 2011, 196, 1530-1536.	4.0	26
401	Template-assisted synthesis of high packing density SrLi2Ti6O14 for use as anode in 2.7-V lithium-ion battery. Journal of Power Sources, 2011, 196, 2871-2874.	4.0	63
402	Nanostructured TiO₂ and Its Application in Lithiumâ€Ion Storage. Advanced Functional Materials, 2011, 21, 3231-3241.	7.8	154
403	Singleâ€Crystal Silicon Membranes with High Lithium Conductivity and Application in Lithiumâ€Air Batteries. Advanced Materials, 2011, 23, 4947-4952.	11.1	46
404	Hollow lithiated metal oxide particles as lithium-ion battery cathode materials. Electrochimica Acta, 2011, 56, 1426-1431.	2.6	24
405	Understanding the redox shuttle stability of 3,5-di-tert-butyl-1,2-dimethoxybenzene for overcharge protection of lithium-ion batteries. Journal of Power Sources, 2010, 195, 4957-4962.	4.0	68
406	Silicon-Containing Carbonatesâ€”Synthesis, Characterization, and Additive Effects for Silicon-Based Polymer Electrolytes. Silicon, 2010, 2, 201-208.	1.8	23
407	A Novel Cathode Material with a Concentrationâ€Gradient for Highâ€Energy and Safe Lithiumâ€Ion Batteries. Advanced Functional Materials, 2010, 20, 485-491.	7.8	252
408	Highâ€Performance Carbonâ€LiMnPO₄ Nanocomposite Cathode for Lithium Batteries. Advanced Functional Materials, 2010, 20, 3260-3265.	7.8	298
409	Nanostructured Anode Material for Highâ€Power Battery System in Electric Vehicles. Advanced Materials, 2010, 22, 3052-3057.	11.1	359
410	Improved electrochemical properties of BiOF-coated 5V spinel Li[Ni0.5Mn1.5]O4 for rechargeable lithium batteries. Journal of Power Sources, 2010, 195, 2023-2028.	4.0	101
411	High-voltage performance of concentration-gradient Li[Ni0.67Co0.15Mn0.18]O2 cathode material for lithium-ion batteries. Electrochimica Acta, 2010, 55, 8621-8627.	2.6	98
412	Non-Annealed Graphene Paper as a Binder-Free Anode for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2010, 114, 12800-12804.	1.5	233
413	Role of surface coating on cathode materials for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 7606.	6.7	569
414	Lithium Tetrafluoro Oxalato Phosphate as Electrolyte Additive for Lithium-Ion Cells. Electrochemical and Solid-State Letters, 2010, 13, A11.	2.2	47

#	Article	IF	Citations
415	MLi₂Ti₆O₁₄ (M = Sr, Ba, 2Na) Lithium Insertion Titanate Materials: A Comparative Study. Inorganic Chemistry, 2010, 49, 2822-2826.	1.9	88
416	Surface modification of cathode materials from nano- to microscale for rechargeable lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 7074.	6.7	214
417	Tailored Preparation Methods of TiO₂ Anatase, Rutile, Brookite: Mechanism of Formation and Electrochemical Properties. Chemistry of Materials, 2010, 22, 1173-1179.	3.2	325
418	Synthesis and characterization of alkylsilane ethers with oligo(ethylene oxide) substituents for safe electrolytes in lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 8224.	6.7	31
419	High-energy cathode material for long-life and safe lithium batteries. Nature Materials, 2009, 8, 320-324.	13.3	1,323
420	Redox shuttles for safer lithium-ion batteries. Electrochimica Acta, 2009, 54, 5605-5613.	2.6	148
421	LixNi0.25Mn0.75Oy (0.5 â‰¤xâ‰¤ 2, 2 â‰¤yâ‰¤ 2.75) compounds for high-energy lithium-ion batteries. Journal of Materials Chemistry, 2009, 19, 4510.	6.7	116
422	Dual functioned BiOF-coated Li[Li0.1Al0.05Mn1.85]O4 for lithium batteries. Journal of Materials Chemistry, 2009, 19, 1995.	6.7	72
423	Nanoporous Structured LiFePO[sub 4] with Spherical Microscale Particles Having High Volumetric Capacity for Lithium Batteries. Electrochemical and Solid-State Letters, 2009, 12, A181.	2.2	82
424	Low-temperature study of lithium-ion cells using a LiySn micro-reference electrode. Journal of Power Sources, 2007, 174, 373-379.	4.0	98
425	Synthesis of Spherical Nano- to Microscale Coreâ˜Shell Particles Li[(Ni0.8Co0.1Mn0.1)1-x(Ni0.5Mn0.5)x]O2and Their Applications to Lithium Batteries. Chemistry of Materials, 2006, 18, 5159-5163.	3.2	116
426	Synthesis and Characterization of Tetra- and Trisiloxane-Containing Oligo(ethylene glycol)s Highly Conducting Electrolytes for Lithium Batteries. Chemistry of Materials, 2006, 18, 1289-1295.	3.2	57
427	Safety characteristics of Li(Ni0.8Co0.15Al0.05)O2 and Li(Ni1/3Co1/3Mn1/3)O2. Electrochemistry Communications, 2006, 8, 329-335.	2.3	238
428	Safety Characteristics of the Li4Ti5O12/LiMn2O4 Li-Ion Battery. Materials Research Society Symposia Proceedings, 2006, 972, 1.	0.1	0
429	Contribution of the Structural Changes of LiNi[sub 0.8]Co[sub 0.15]Al[sub 0.05]O[sub 2] Cathodes on the Exothermic Reactions in Li-Ion Cells. Journal of the Electrochemical Society, 2006, 153, A731.	1.3	102
430	Effects of additives on thermal stability of Li ion cells. Journal of Power Sources, 2005, 146, 116-120.	4.0	126
431	Synthesis and Ionic Conductivity of Cyclosiloxanes with Ethyleneoxy-Containing Substituents. Chemistry of Materials, 2005, 17, 5646-5650.	3.2	45
432	Synthesis and Characterization of Li[(Ni0.8Co0.1Mn0.1)0.8(Ni0.5Mn0.5)0.2]O2with the Microscale Coreâ˜Shell Structure as the Positive Electrode Material for Lithium Batteries. Journal of the American Chemical Society, 2005, 127, 13411-13418.	6.6	417

#	Article	IF	Citations
433	Reduction Mechanisms of Ethylene, Propylene, and Vinylethylene Carbonates. Journal of the Electrochemical Society, 2004, 151, A178.	1.3	181
434	Flame-retardant additives for lithium-ion batteries. Journal of Power Sources, 2003, 119-121, 383-387.	4.0	204
435	Tuning working potential of silicon-phosphorus anode via microstructure control for high-energy lithium-ion batteries. Journal of Solid State Electrochemistry, 0, , .	1.2	1