Jaephil Cho

List of Publications by Year
in descending order

378	54,853	733 120	1345 223
papers	citations	h-index	g-index

409	409	409	32602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Challenges Facing Lithium Batteries and Electrical Doubleâ€Layer Capacitors. Angewandte Chemie - International Edition, 2012, 51, 9994-10024.	7.2	2,407
2	Metalâ€“Air Batteries with High Energy Density: Liâ€“Air versus Znâ€“Air. Advanced Energy Materials, 2011, 1, 34-50.	10.2	1,906
3	Nickelâ€Rich Layered Lithium Transitionâ€Metal Oxide for Highâ€Energy Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 4440-4457.	7.2	1,512
4	Silicon Nanotube Battery Anodes. Nano Letters, 2009, 9, 3844-3847.	4.5	1,362
5	MoS₂ Nanoplates Consisting of Disordered Graphene-like Layers for High Rate Lithium Battery Anode Materials. Nano Letters, 2011, 11, 4826-4830.	4.5	991
6	Spindle-like Mesoporous Î±-Fe₂O₃ Anode Material Prepared from MOF Template for High-Rate Lithium Batteries. Nano Letters, 2012, 12, 4988-4991.	4.5	874
7	A Critical Size of Silicon Nanoâ€Anodes for Lithium Rechargeable Batteries. Angewandte Chemie - International Edition, 2010, 49, 2146-2149.	7.2	860
8	Green energy storage materials: Nanostructured TiO2 and Sn-based anodes for lithium-ion batteries. Energy and Environmental Science, 2009, 2, 818.	15.6	814
9	Transition metal (Fe, Co, Ni, and Mn) oxides for oxygen reduction and evolution bifunctional catalysts in alkaline media. Nano Today, 2016, 11, 601-625.	6.2	738
10	Recent Progress in Nonâ€Precious Catalysts for Metalâ€Air Batteries. Advanced Energy Materials, 2012, 2, 816-829.	10.2	652
11	Promotion of oxygen reduction by a bio-inspired tethered iron phthalocyanine carbon nanotube-based catalyst. Nature Communications, 2013, 4, 2076.	5.8	630
12	Novel LiCoO2Cathode Material with Al2O3Coating for a Li Ion Cell. Chemistry of Materials, 2000, 12, 3788-3791.	3.2	599
13	Prospect and Reality of Niâ€Rich Cathode for Commercialization. Advanced Energy Materials, 2018, 8, 1702028.	10.2	574
14	Scalable synthesis of silicon-nanolayer-embedded graphite for high-energy lithium-ion batteries. Nature Energy, 2016, 1, .	19.8	563
15	Material design and engineering of next-generation flow-battery technologies. Nature Reviews Materials, 2017, 2, .	23.3	559
16	Who will drive electric vehicles, olivine or spinel?. Energy and Environmental Science, 2011, 4, 1621.	15.6	553
17	Nanostructured transition metal sulfides for lithium ion batteries: Progress and challenges. Nano Today, 2014, 9, 604-630.	6.2	545
18	Critical Size of a Nano SnO2Electrode for Li-Secondary Battery. Chemistry of Materials, 2005, 17, 3297-3301.	3.2	517

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19	Metal (Ni, Co)â€Metal Oxides/Graphene Nanocomposites as Multifunctional Electrocatalysts. Advanced Functional Materials, 2015, 25, 5799-5808.	7.8	490
20	Superior Lithium Electroactive Mesoporous Si@Carbon Coreâ”Shell Nanowires for Lithium Battery Anode Material. Nano Letters, 2008, 8, 3688-3691.	4.5	489
21	Nanostructured electrodes for lithium-ion and lithium-air batteries: the latest developments, challenges, and perspectives. Materials Science and Engineering Reports, 2011, 72, 203-252.	14.8	467
22	Integration of Graphite and Silicon Anodes for the Commercialization of Highâ€Energy Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 110-135.	7.2	460
23	Reversible and Highâ€Capacity Nanostructured Electrode Materials for Liâ€Ion Batteries. Advanced Functional Materials, 2009, 19, 1497-1514.	7.8	458
24	A New Coating Method for Alleviating Surface Degradation of LiNi_{0.6}Co_{0.2}Mn_{0.2}O₂ Cathode Material: Nanoscale Surface Treatment of Primary Particles. Nano Letters, 2015, 15, 2111-2119.	4.5	452
25	A New Type of Protective Surface Layer for High-Capacity Ni-Based Cathode Materials: Nanoscaled Surface Pillaring Layer. Nano Letters, 2013, 13, 1145-1152.	4.5	442
26	Zero-Strain Intercalation Cathode for Rechargeable Li-Ion Cell. Angewandte Chemie - International Edition, 2001, 40, 3367-3369.	7.2	441
27	Atomically dispersed nickelâ€“nitrogenâ€“sulfur species anchored on porous carbon nanosheets for efficient water oxidation. Nature Communications, 2019, 10, 1392.	5.8	424
28	Graphene/Grapheneâ€Tube Nanocomposites Templated from Cageâ€Containing Metalâ€Organic Frameworks for Oxygen Reduction in Liâ€“O₂ Batteries. Advanced Materials, 2014, 26, 1378-1386.	11.1	398
29	Magnesium(II) Bis(trifluoromethane sulfonyl) Imide-Based Electrolytes with Wide Electrochemical Windows for Rechargeable Magnesium Batteries. ACS Applied Materials & Interfaces, 2014, 6, 4063-4073.	4.0	398
30	Liâ€and Mnâ€Rich Cathode Materials: Challenges to Commercialization. Advanced Energy Materials, 2017, 7, 1601284.	10.2	383
31	Roles of nanosize in lithium reactive nanomaterials for lithium ion batteries. Nano Today, 2011, 6, 28-41.	6.2	381
32	Integrating NiCo Alloys with Their Oxides as Efficient Bifunctional Cathode Catalysts for Rechargeable Zincâ€“Air Batteries. Angewandte Chemie - International Edition, 2015, 54, 9654-9658.	7.2	372
33	Allâ€Solidâ€State Cableâ€Type Flexible Zincâ€“Air Battery. Advanced Materials, 2015, 27, 1396-1401.	11.1	363
34	Nanocarbon Electrocatalysts for Oxygen Reduction in Alkaline Media for Advanced Energy Conversion and Storage. Advanced Energy Materials, 2014, 4, 1301415.	10.2	351
35	Sodiumâ€Decorated Amorphous/Crystalline RuO₂ with Rich Oxygen Vacancies: A Robust pHâ€Universal Oxygen Evolution Electrocatalyst. Angewandte Chemie - International Edition, 2021, 60, 18821-18829.	7.2	346
36	A Breakthrough in the Safety of Lithium Secondary Batteries by Coating the Cathode Material with AlPO4 Nanoparticles. Angewandte Chemie - International Edition, 2003, 42, 1618-1621.	7.2	334

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37	Cableâ€Type Flexible Lithium Ion Battery Based on Hollow Multiâ€Helix Electrodes. Advanced Materials, 2012, 24, 5192-5197.	11.1	331
38	Confronting Issues of the Practical Implementation of Si Anode in High-Energy Lithium-Ion Batteries. Joule, 2017, 1, 47-60.	11.7	329
39	A Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction: Nâ€Doped Ketjenblack Incorporated into Fe/Fe₃Câ€Functionalized Melamine Foam. Angewandte Chemie - International Edition, 2013, 52, 1026-1030.	7.2	324
40	Flexible Dimensional Control of Highâ€Capacity Liâ€Ionâ€Battery Anodes: From 0D Hollow to 3D Porous Germanium Nanoparticle Assemblies. Advanced Materials, 2010, 22, 415-418.	11.1	321
41	Dynamic behaviour of interphases and its implication on high-energy-density cathode materials in lithium-ion batteries. Nature Communications, 2017, 8, 14589.	5.8	306
42	Porous Si anode materials for lithium rechargeable batteries. Journal of Materials Chemistry, 2010, 20, 4009.	6.7	305
43	Synthesis and Characterization of Patronite Form of Vanadium Sulfide on Graphitic Layer. Journal of the American Chemical Society, 2013, 135, 8720-8725.	6.6	300
44	Optimizing nanoparticle perovskite for bifunctional oxygen electrocatalysis. Energy and Environmental Science, 2016, 9, 176-183.	15.6	299
45	A Bifunctional Perovskite Catalyst for Oxygen Reduction and Evolution. Angewandte Chemie - International Edition, 2014, 53, 4582-4586.	7.2	294
46	Germanium Nanotubes Prepared by Using the Kirkendall Effect as Anodes for Highâ€Rate Lithium Batteries. Angewandte Chemie - International Edition, 2011, 50, 9647-9650.	7.2	288
47	Amorphous Carbon-Coated Tin Anode Material for Lithium Secondary Battery. Chemistry of Materials, 2005, 17, 1926-1929.	3.2	279
48	Fast-charging high-energy lithium-ion batteries via implantation of amorphous silicon nanolayer in edge-plane activated graphite anodes. Nature Communications, 2017, 8, 812.	5.8	274
49	Reactive boride infusion stabilizes Ni-rich cathodes for lithium-ion batteries. Nature Energy, 2021, 6, 362-371.	19.8	274
50	High performance Ge nanowire anode sheathed with carbon for lithium rechargeable batteries. Energy and Environmental Science, 2011, 4, 425-428.	15.6	265
51	Integrated Hierarchical Cobalt Sulfide/Nickel Selenide Hybrid Nanosheets as an Efficient Three-dimensional Electrode for Electrochemical and Photoelectrochemical Water Splitting. Nano Letters, 2017, 17, 4202-4209.	4.5	263
52	Ketjenblack Carbon Supported Amorphous Manganese Oxides Nanowires as Highly Efficient Electrocatalyst for Oxygen Reduction Reaction in Alkaline Solutions. Nano Letters, 2011, 11, 5362-5366.	4.5	261
53	Catalytic Role of Ge in Highly Reversible GeO₂/Ge/C Nanocomposite Anode Material for Lithium Batteries. Nano Letters, 2013, 13, 1230-1236.	4.5	261
54	Microstructure of LiCoO₂ with and without â€œAlPO₄â€•Nanoparticle Coating:â€‰ Combined STEM and XPS Studies. Chemistry of Materials, 2007, 19, 5748-5757.	3.2	259

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55	Hard templating synthesis of mesoporous and nanowire SnO2 lithium battery anode materials. Journal of Materials Chemistry, 2008, 18, 771.	6.7	259
56	Recent Progress in Nanostructured Cathode Materials for Lithium Secondary Batteries. Advanced Functional Materials, 2010, 20, 3818-3834.	7.8	257
57	Surface Engineering Strategies of Layered LiCoO₂ Cathode Material to Realize Highâ€Energy and Highâ€Voltage Liâ€Ion Cells. Advanced Energy Materials, 2017, 7, 1601507.	10.2	257
58	High Performance LiMn₂O₄ Cathode Materials Grown with Epitaxial Layered Nanostructure for Li-Ion Batteries. Nano Letters, 2014, 14, 993-999.	4.5	248
59	Commercial and research battery technologies for electrical energy storage applications. Progress in Energy and Combustion Science, 2015, 48, 84-101.	15.8	244
60	Recent Advances in Lithium Sulfide Cathode Materials and Their Use in Lithium Sulfur Batteries. Advanced Energy Materials, 2015, 5, 1500110.	10.2	240
61	Anomalous Pseudocapacitive Behavior of a Nanostructured, Mixed-Valent Manganese Oxide Film for Electrical Energy Storage. Nano Letters, 2012, 12, 3483-3490.	4.5	234
62	Highâ€Performance Macroporous Bulk Silicon Anodes Synthesized by Templateâ€Free Chemical Etching. Advanced Energy Materials, 2012, 2, 878-883.	10.2	232
63	Selfâ€Assembled Germanium/Carbon Nanostructures as Highâ€Power Anode Material for the Lithiumâ€Ion Battery. Angewandte Chemie - International Edition, 2012, 51, 5657-5661.	7.2	231
64	Roles of Surface Chemistry on Safety and Electrochemistry in Lithium Ion Batteries. Accounts of Chemical Research, 2013, 46, 1161-1170.	7.6	231
65	Critical Thickness of SiO₂ Coating Layer on Core@Shell Bulk@Nanowire Si Anode Materials for Liâ€Ion Batteries. Advanced Materials, 2013, 25, 4498-4503.	11.1	231
66	LiCoO[sub 2] Cathode Material That Does Not Show a Phase Transition from Hexagonal to Monoclinic Phase. Journal of the Electrochemical Society, 2001, 148, A1110.	1.3	222
67	A Highly Efficient and Robust Cation Ordered Perovskite Oxide as a Bifunctional Catalyst for Rechargeable Zinc-Air Batteries. ACS Nano, 2017, 11, 11594-11601.	7.3	219
68	NiFe (Oxy) Hydroxides Derived from NiFe Disulfides as an Efficient Oxygen Evolution Catalyst for Rechargeable Znâ€“Air Batteries: The Effect of Surface S Residues. Advanced Materials, 2018, 30, e1800757.	11.1	219
69	Corn protein-derived nitrogen-doped carbon materials with oxygen-rich functional groups: a highly efficient electrocatalyst for all-vanadium redox flow batteries. Energy and Environmental Science, 2014, 7, 3727-3735.	15.6	218
70	A highly stabilized nickel-rich cathode material by nanoscale epitaxy control for high-energy lithium-ion batteries. Energy and Environmental Science, 2018, 11, 1449-1459.	15.6	213
71	Metalâ€“Organic Frameworkâ€Derived Bambooâ€like Nitrogenâ€Doped Graphene Tubes as an Active Matrix for Hybrid Oxygenâ€Reduction Electrocatalysts. Small, 2015, 11, 1443-1452.	5.2	209
72	A Tannic Acidâ€“Derived Nâ€, Pâ€Codoped Carbonâ€Supported Ironâ€Based Nanocomposite as an Advanced Trifunctional Electrocatalyst for the Overall Water Splitting Cells and Zincâ€“Air Batteries. Advanced Energy Materials, 2019, 9, 1803312.	10.2	209

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73	Challenges in Accommodating Volume Change of Si Anodes for Liâ€Ion Batteries. ChemElectroChem, 2015, 2, 1645-1651.	1.7	204
74	One dimensional Si/Sn - based nanowires and nanotubes for lithium-ion energy storage materials. Journal of Materials Chemistry, 2011, 21, 9825.	6.7	200
75	A Novel Surface Treatment Method and New Insight into Discharge Voltage Deterioration for Highâ€Performance 0.4Li₂MnO_{3â€“}0.6LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathode Materials. Advanced Energy Materials, 2014, 4, 1400631.	10.2	196
76	Synthesis, Thermal, and Electrochemical Properties of AlPO[sub 4]-Coated LiNi[sub 0.8]Co[sub 0.1]Mn[sub 0.1]O[sub 2] Cathode Materials for a Li-Ion Cell. Journal of the Electrochemical Society, 2004, 151, A1899.	1.3	195
77	Ionic liquid modified graphene nanosheets anchoring manganese oxide nanoparticles as efficient electrocatalysts for Znâ€“air batteries. Energy and Environmental Science, 2011, 4, 4148.	15.6	191
78	Lithiumâ€Air Batteries: Survey on the Current Status and Perspectives Towards Automotive Applications from a Battery Industry Standpoint. Advanced Energy Materials, 2012, 2, 780-800.	10.2	190
79	Bifunctional Perovskite Oxide Catalysts for Oxygen Reduction and Evolution in Alkaline Media. Chemistry - an Asian Journal, 2016, 11, 10-21.	1.7	190
80	Scalable approach to multi-dimensional bulk Si anodes via metal-assisted chemical etching. Energy and Environmental Science, 2011, 4, 5013.	15.6	188
81	High-performance non-spinel cobaltâ€“manganese mixed oxide-based bifunctional electrocatalysts for rechargeable zincâ€“air batteries. Nano Energy, 2016, 20, 315-325.	8.2	187
82	Suppression of Cobalt Dissolution from the LiCoO[sub 2] Cathodes with Various Metal-Oxide Coatings. Journal of the Electrochemical Society, 2003, 150, A1723.	1.3	185
83	Electrochemical Properties and Thermal Stability of Li[sub a]Ni[sub 1â^'x]CO[sub x]O[sub 2] Cathode Materials. Journal of the Electrochemical Society, 2000, 147, 15.	1.3	181
84	Spinelâ€Layered Coreâ€Shell Cathode Materials for Liâ€Ion Batteries. Advanced Energy Materials, 2011, 1, 821-828.	10.2	181
85	Elastic a-Silicon Nanoparticle Backboned Graphene Hybrid as a Self-Compacting Anode for High-Rate Lithium Ion Batteries. ACS Nano, 2014, 8, 8591-8599.	7.3	180
86	Synthesis of Nanowire and Hollow LiFePO₄ Cathodes for High-Performance Lithium Batteries. Chemistry of Materials, 2008, 20, 4560-4564.	3.2	176
87	Low Loading of Rh_xP and RuP on N, P Codoped Carbon as Two Trifunctional Electrocatalysts for the Oxygen and Hydrogen Electrode Reactions. Advanced Energy Materials, 2018, 8, 1801478.	10.2	173
88	Countering Voltage Decay and Capacity Fading of Lithiumâ€Rich Cathode Material at 60 Â°C by Hybrid Surface Protection Layers. Advanced Energy Materials, 2015, 5, 1500274.	10.2	172
89	Feasibility of Cathode Surface Coating Technology for Highâ€Energy Lithiumâ€ion and Beyondâ€Lithiumâ€ion Batteries. Advanced Materials, 2017, 29, 1605807.	11.1	168
90	Carbon-Coated Coreâ€“Shell Feâ€“Cu Nanoparticles as Highly Active and Durable Electrocatalysts for a Znâ€“Air Battery. ACS Nano, 2015, 9, 6493-6501.	7.3	167

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91	Precious metal-free approach to hydrogen electrocatalysis for energy conversion: From mechanism understanding to catalyst design. Nano Energy, 2017, 42, 69-89.	8.2	157
92	Metal-Free Ketjenblack Incorporated Nitrogen-Doped Carbon Sheets Derived from Gelatin as Oxygen Reduction Catalysts. Nano Letters, 2014, 14, 1870-1876.	4.5	155
93	Washing Effect of a LiNi[sub 0.83]Co[sub 0.15]Al[sub 0.02]O[sub 2] Cathode in Water. Electrochemical and Solid-State Letters, 2006, 9, A19.	2.2	154
94	Single crystalline pyrochlore nanoparticles with metallic conduction as efficient bi-functional oxygen electrocatalysts for Znâ€“air batteries. Energy and Environmental Science, 2017, 10, 129-136.	15.6	154
95	Unsymmetrical fluorinated malonatoborate as an amphoteric additive for high-energy-density lithium-ion batteries. Energy and Environmental Science, 2018, 11, 1552-1562.	15.6	154
96	A New High Power LiNi_{0.81}Co_{0.1}Al_{0.09}O₂ Cathode Material for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2014, 4, 1301583.	10.2	153
97	Issues and Challenges Facing Flexible Lithiumâ€Ion Batteries for Practical Application. Small, 2018, 14, e1702989.	5.2	152
98	Micron-sized Feâ€“Cuâ€“Si ternary composite anodes for high energy Li-ion batteries. Energy and Environmental Science, 2016, 9, 1251-1257.	15.6	147
99	Effect of Preparation Methods of LiNi1â€‰â^'â€‰x Co x â€‰Oâ€‰2 Cathode Materials on Their Chemical Structure and Electrode Performance. Journal of the Electrochemical Society, 1999, 146, 3571-3576.	1.3	146
100	Superior Long-Term Energy Retention and Volumetric Energy Density for Li-Rich Cathode Materials. Nano Letters, 2014, 14, 5965-5972.	4.5	145
101	Fully Conjugated Phthalocyanine Copper Metalâ€“Organic Frameworks for Sodiumâ€“Iodine Batteries with Longâ€Timeâ€Cycling Durability. Advanced Materials, 2020, 32, e1905361.	11.1	143
102	Raman Spectroscopic and X-ray Diffraction Studies of Sulfur Composite Electrodes during Discharge and Charge. Journal of the Electrochemical Society, 2012, 159, A1308-A1314.	1.3	141
103	The Heterostructure of Ru₂P/WO₃/NPC Synergistically Promotes H₂O Dissociation for Improved Hydrogen Evolution. Angewandte Chemie - International Edition, 2021, 60, 4110-4116.	7.2	141
104	Significant Improvement of LiNi[sub 0.8]Co[sub 0.15]Al[sub 0.05]O[sub 2] Cathodes at 60Â°C by SiO[sub 2] Dry Coating for Li-Ion Batteries. Journal of the Electrochemical Society, 2010, 157, A625.	1.3	140
105	Novel Coreâ€Shell Snâ€Cu Anodes for Lithium Rechargeable Batteries Prepared by a Redoxâ€Transmetalation Reaction. Advanced Materials, 2010, 22, 5154-5158.	11.1	138
106	A Mesoporous/Crystalline Composite Material Containing Tin Phosphate for Use as the Anode in Lithium-Ion Batteries. Angewandte Chemie - International Edition, 2004, 43, 5987-5990.	7.2	137
107	Spinel Li[sub 4]Ti[sub 5]O[sub 12] Nanowires for High-Rate Li-Ion Intercalation Electrode. Electrochemical and Solid-State Letters, 2007, 10, A81.	2.2	133
108	PVP-Assisted ZrO2 coating on LiMn2O4 spinel cathode nanoparticles prepared by MnO2 nanowire templates. Electrochemistry Communications, 2008, 10, 1478-1481.	2.3	133

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109	Electrochemical Stability of Thin-Film LiCoO2Cathodes by Aluminum-Oxide Coating. Chemistry of Materials, 2003, 15, 1505-1511.	3.2	132
110	Nitrogen-Doped Graphitic Layers Deposited on Silicon Nanowires for Efficient Lithium-Ion Battery Anodes. Journal of Physical Chemistry C, 2011, 115, 9451-9457.	1.5	131
111	The role of nanoscale-range vanadium treatment in LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ cathode materials for Li-ion batteries at elevated temperatures. Journal of Materials Chemistry A, 2015, 3, 13453-13460.	5.2	131
112	A Novel Lithiumâ€Doping Approach for an Advanced Lithium Ion Capacitor. Advanced Energy Materials, 2011, 1, 1002-1006.	10.2	130
113	Boosting Reaction Homogeneity in Highâ€Energy Lithiumâ€Ion Battery Cathode Materials. Advanced Materials, 2020, 32, e2003040.	11.1	130
114	High-Performance ZrO[sub 2]-Coated LiNiO[sub 2] Cathode Material. Electrochemical and Solid-State Letters, 2001, 4, A159.	2.2	127
115	Multiple Redox Modes in the Reversible Lithiation of High-Capacity, Peierls-Distorted Vanadium Sulfide. Journal of the American Chemical Society, 2015, 137, 8499-8508.	6.6	127
116	Mechanisms for electrochemical performance enhancement by the salt-type electrolyte additive, lithium difluoro(oxalato)borate, in high-voltage lithium-ion batteries. Journal of Power Sources, 2017, 357, 97-106.	4.0	127
117	The synergistic effect of Hf-O-Ru bonds and oxygen vacancies in Ru/HfO2 for enhanced hydrogen evolution. Nature Communications, 2022, 13, 1270.	5.8	126
118	Sn₇₈Ge₂₂@Carbon Coreâ"Shell Nanowires as Fast and High-Capacity Lithium Storage Media. Nano Letters, 2007, 7, 2638-2641.	4.5	125
119	Advanced Technologies for Highâ€Energy Aluminumâ€"Air Batteries. Advanced Materials, 2019, 31, e1804784.	11.1	125
120	Effect of LiCoO[sub 2] Cathode Nanoparticle Size on High Rate Performance for Li-Ion Batteries. Journal of the Electrochemical Society, 2009, 156, A430.	1.3	124
121	Optimized Synthetic Conditions of LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂Cathode Materials for High Rate Lithium Batteries via Co-Precipitation Method. Journal of the Electrochemical Society, 2013, 160, A105-A111.	1.3	123
122	Flexible High-Energy Li-Ion Batteries with Fast-Charging Capability. Nano Letters, 2014, 14, 4083-4089.	4.5	122
123	Replacing conventional battery electrolyte additives with dioxolone derivatives for high-energy-density lithium-ion batteries. Nature Communications, 2021, 12, 838.	5.8	122
124	Storage Characteristics of LiNi[sub 0.8]Co[sub 0.1+x]Mn[sub 0.1â"x]O[sub 2] (x=0, 0.03, and 0.06) Cathode Materials for Lithium Batteries. Journal of the Electrochemical Society, 2008, 155, A239.	1.3	121
125	Lithium-Reactive Co[sub 3](PO[sub 4])[sub 2] Nanoparticle Coating on High-Capacity LiNi[sub 0.8]Co[sub 0.16]Al[sub 0.04]O[sub 2] Cathode Material for Lithium Rechargeable Batteries. Journal of the Electrochemical Society, 2007, 154, A495.	1.3	120
126	LiNi0.8Co0.15Al0.05O2 cathode materials prepared by TiO2 nanoparticle coatings on Ni0.8Co0.15Al0.05(OH)2 precursors. Electrochimica Acta, 2010, 56, 333-339.	2.6	120

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127	Etched Graphite with Internally Grown Si Nanowires from Pores as an Anode for High Density Li-Ion Batteries. Nano Letters, 2013, 13, 3403-3407.	4.5	120
128	Understanding voltage decay in lithium-excess layered cathode materials through oxygen-centred structural arrangement. Nature Communications, 2018, 9, 3285.	5.8	119
129	Advances and Prospects of Sulfide Allâ€Solidâ€State Lithium Batteries via Oneâ€toâ€One Comparison with Conventional Liquid Lithium Ion Batteries. Advanced Materials, 2019, 31, e1900376.	11.1	119
130	Comparison of Overcharge Behavior of AlPO[sub 4]-Coated LiCoO[sub 2] and LiNi[sub 0.8]Co[sub 0.1]Mn[sub 0.1]O[sub 2] Cathode Materialsâ€‰inâ€‰Li-Ionâ€‰Cells. Journal of the Electrochemical Society, 2004, 151, A1707.	3.9	118
131	Lithium reaction mechanism and high rate capability of VS₄â€“graphene nanocomposite as an anode material for lithium batteries. Journal of Materials Chemistry A, 2014, 2, 10847-10853.	5.2	118
132	LiNi0.74Co0.26-xMgxO2Cathode Material for a Li-Ion Cell. Chemistry of Materials, 2000, 12, 3089-3094.	3.2	117
133	Comparison of Al2O3- and AlPO4-coated LiCoO2 cathode materials for a Li-ion cell. Journal of Power Sources, 2005, 146, 58-64.	4.0	117
134	Rate Characteristics of Anatase TiO[sub 2] Nanotubes and Nanorods for Lithium Battery Anode Materials at Room Temperature. Journal of the Electrochemical Society, 2007, 154, A542.	1.3	116
135	Fabrication of Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â€“}_{Î´} Catalysts with Enhanced Electrochemical Performance by Removing an Inherent Heterogeneous Surface Film Layer. Advanced Materials, 2015, 27, 266-271.	11.1	114
136	Siâ€Encapsulating Hollow Carbon Electrodes via Electroless Etching for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2013, 3, 206-212.	10.2	113
137	Exploring Critical Factors Affecting Strain Distribution in 1D Siliconâ€Based Nanostructures for Lithiumâ€Ion Battery Anodes. Advanced Materials, 2018, 30, e1705430.	11.1	113
138	Surface-Stabilized Amorphous Germanium Nanoparticles for Lithium-Storage Material. Journal of Physical Chemistry B, 2005, 109, 20719-20723.	1.2	112
139	Calenderingâ€Compatible Macroporous Architecture for Siliconâ€“Graphite Composite toward Highâ€Energy Lithiumâ€Ion Batteries. Advanced Materials, 2020, 32, e2003286.	11.1	111
140	Antimonyâ€Based Composites Loaded on Phosphorusâ€Doped Carbon for Boosting Faradaic Efficiency of the Electrochemical Nitrogen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 13329-13334.	7.2	108
141	Exploration of the Effective Location of Surface Oxygen Defects in Grapheneâ€Based Electrocatalysts for Allâ€Vanadium Redoxâ€Flow Batteries. Advanced Energy Materials, 2015, 5, 1401550.	10.2	107
142	Enhanced Intrinsic Catalytic Activity of Î»â€MnO₂ by Electrochemical Tuning and Oxygen Vacancy Generation. Angewandte Chemie - International Edition, 2016, 55, 8599-8604.	7.2	107
143	Robust Pitch on Silicon Nanolayerâ€“Embedded Graphite for Suppressing Undesirable Volume Expansion. Advanced Energy Materials, 2019, 9, 1803121.	10.2	107
144	Unveiling Nickel Chemistry in Stabilizing Highâ€Voltage Cobaltâ€Rich Cathodes for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 1907903.	7.8	107

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145	Subnano-sized silicon anode via crystal growth inhibition mechanism and its application in a prototype battery pack. Nature Energy, 2021, 6, 1164-1175.	19.8	107
146	Enhancing Interfacial Bonding between Anisotropically Oriented Grains Using a Glueâ€Nanofiller for Advanced Liâ€Ion Battery Cathode. Advanced Materials, 2016, 28, 4705-4712.	11.1	106
147	Preparation and electrochemical/thermal properties of LiNi0.74Co0.26O2 cathode material. Journal of Power Sources, 2001, 92, 35-39.	4.0	105
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