

Jaephil Cho

List of Publications by Year in descending order

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papers

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times ranked

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

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19	Metal (Ni, Co)-Metal Oxides/Graphene Nanocomposites as Multifunctional Electrocatalysts. <i>Advanced Functional Materials</i> , 2015, 25, 5799-5808.	7.8	490
20	Superior Lithium Electroactive Mesoporous Si@Carbon Core-Shell Nanowires for Lithium Battery Anode Material. <i>Nano Letters</i> , 2008, 8, 3688-3691.	4.5	489
21	Nanostructured electrodes for lithium-ion and lithium-air batteries: the latest developments, challenges, and perspectives. <i>Materials Science and Engineering Reports</i> , 2011, 72, 203-252.	14.8	467
22	Integration of Graphite and Silicon Anodes for the Commercialization of High-Energy Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 110-135.	7.2	460
23	Reversible and High-Capacity Nanostructured Electrode Materials for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2009, 19, 1497-1514.	7.8	458
24	A New Coating Method for Alleviating Surface Degradation of $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ Cathode Material: Nanoscale Surface Treatment of Primary Particles. <i>Nano Letters</i> , 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. <i>Nano Letters</i> , 2013, 13, 1145-1152.	4.5	442
26	Zero-Strain Intercalation Cathode for Rechargeable Li-Ion Cell. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3367-3369.	7.2	441
27	Atomically dispersed nickel-nitrogen-sulfur species anchored on porous carbon nanosheets for efficient water oxidation. <i>Nature Communications</i> , 2019, 10, 1392.	5.8	424
28	Graphene/Graphene-Tube Nanocomposites Templated from Cage-Containing Metal-Organic Frameworks for Oxygen Reduction in Li-O_2 Batteries. <i>Advanced Materials</i> , 2014, 26, 1378-1386.	11.1	398
29	Magnesium(II) Bis(trifluoromethane sulfonyl) Imide-Based Electrolytes with Wide Electrochemical Windows for Rechargeable Magnesium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4063-4073.	4.0	398
30	Li- and Mn-Rich Cathode Materials: Challenges to Commercialization. <i>Advanced Energy Materials</i> , 2017, 7, 1601284.	10.2	383
31	Roles of nanosize in lithium reactive nanomaterials for lithium ion batteries. <i>Nano Today</i> , 2011, 6, 28-41.	6.2	381
32	Integrating NiCo Alloys with Their Oxides as Efficient Bifunctional Cathode Catalysts for Rechargeable Zinc-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9654-9658.	7.2	372
33	All-Solid-State Cable-Type Flexible Zinc-Air Battery. <i>Advanced Materials</i> , 2015, 27, 1396-1401.	11.1	363
34	Nanocarbon Electrocatalysts for Oxygen Reduction in Alkaline Media for Advanced Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2014, 4, 1301415.	10.2	351
35	Sodium-Decorated Amorphous/Crystalline RuO_2 with Rich Oxygen Vacancies: A Robust pH-Universal Oxygen Evolution Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18821-18829.	7.2	346
36	A Breakthrough in the Safety of Lithium Secondary Batteries by Coating the Cathode Material with AlPO_4 Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1618-1621.	7.2	334

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37	Cable-Type Flexible Lithium Ion Battery Based on Hollow Multi-Helix Electrodes. <i>Advanced Materials</i> , 2012, 24, 5192-5197.	11.1	331
38	Confronting Issues of the Practical Implementation of Si Anode in High-Energy Lithium-Ion Batteries. <i>Joule</i> , 2017, 1, 47-60.	11.7	329
39	A Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction: N-Doped Ketjenblack Incorporated into Fe/Fe ₃ C-Functionalized Melamine Foam. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1026-1030.	7.2	324
40	Flexible Dimensional Control of High-Capacity Li-Ion Battery Anodes: From 0D Hollow to 3D Porous Germanium Nanoparticle Assemblies. <i>Advanced Materials</i> , 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. <i>Nature Communications</i> , 2017, 8, 14589.	5.8	306
42	Porous Si anode materials for lithium rechargeable batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 4009.	6.7	305
43	Synthesis and Characterization of Patronite Form of Vanadium Sulfide on Graphitic Layer. <i>Journal of the American Chemical Society</i> , 2013, 135, 8720-8725.	6.6	300
44	Optimizing nanoparticle perovskite for bifunctional oxygen electrocatalysis. <i>Energy and Environmental Science</i> , 2016, 9, 176-183.	15.6	299
45	A Bifunctional Perovskite Catalyst for Oxygen Reduction and Evolution. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4582-4586.	7.2	294
46	Germanium Nanotubes Prepared by Using the Kirkendall Effect as Anodes for High-Rate Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9647-9650.	7.2	288
47	Amorphous Carbon-Coated Tin Anode Material for Lithium Secondary Battery. <i>Chemistry of Materials</i> , 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. <i>Nature Communications</i> , 2017, 8, 812.	5.8	274
49	Reactive boride infusion stabilizes Ni-rich cathodes for lithium-ion batteries. <i>Nature Energy</i> , 2021, 6, 362-371.	19.8	274
50	High performance Ge nanowire anode sheathed with carbon for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 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. <i>Nano Letters</i> , 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. <i>Nano Letters</i> , 2011, 11, 5362-5366.	4.5	261
53	Catalytic Role of Ge in Highly Reversible GeO ₂ /Ge/C Nanocomposite Anode Material for Lithium Batteries. <i>Nano Letters</i> , 2013, 13, 1230-1236.	4.5	261
54	Microstructure of LiCoO ₂ with and without α -AlPO ₄ Nanoparticle Coating: Combined STEM and XPS Studies. <i>Chemistry of Materials</i> , 2007, 19, 5748-5757.	3.2	259

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55	Hard templating synthesis of mesoporous and nanowire SnO ₂ 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 LiCoO ₂ Cathode Material to Realize High-Energy and High-Voltage Li-Ion Cells. Advanced Energy Materials, 2017, 7, 1601507.	10.2	257
58	High Performance LiMn ₂ O ₄ 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	High-Performance Macroporous Bulk Silicon Anodes Synthesized by Template-Free Chemical Etching. Advanced Energy Materials, 2012, 2, 878-883.	10.2	232
63	Self-Assembled Germanium/Carbon Nanostructures as High-Power Anode Material for the Lithium-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 SiO ₂ Coating Layer on Core@Shell Bulk@Nanowire Si Anode Materials for Li-Ion Batteries. Advanced Materials, 2013, 25, 4498-4503.	11.1	231
66	LiCoO 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 Zn-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	Metal-Organic Framework-Derived Bamboo-Like Nitrogen-Doped Graphene Tubes as an Active Matrix for Hybrid Oxygen-Reduction Electrocatalysts. Small, 2015, 11, 1443-1452.	5.2	209
72	A Tannic Acid-Derived Na, P-Codoped Carbon-Supported Iron-Based Nanocomposite as an Advanced Trifunctional Electrocatalyst for the Overall Water Splitting Cells and Zinc-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 Li-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 High-Performance $0.4\text{Li}_{2/3}\text{MnO}_3 \cdot 0.6\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Cathode Materials. Advanced Energy Materials, 2014, 4, 1400631.	10.2	196
76	Synthesis, Thermal, and Electrochemical Properties of AlPO_4 -Coated $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ 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 Zn-air batteries. Energy and Environmental Science, 2011, 4, 4148.	15.6	191
78	Lithium-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 cobalt-manganese mixed oxide-based bifunctional electrocatalysts for rechargeable zinc-air batteries. Nano Energy, 2016, 20, 315-325.	8.2	187
82	Suppression of Cobalt Dissolution from the LiCoO_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 $\text{Li}_{1-x}\text{Ni}_x\text{CO}_2$ Cathode Materials. Journal of the Electrochemical Society, 2000, 147, 15.	1.3	181
84	Spinel-Layered Core-Shell Cathode Materials for Li-Ion Batteries. Advanced Energy Materials, 2011, 1, 821-828.	10.2	181
85	Elastic <i>a</i> -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 LiFePO_4 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 Lithium-Rich Cathode Material at 60 °C by Hybrid Surface Protection Layers. Advanced Energy Materials, 2015, 5, 1500274.	10.2	172
89	Feasibility of Cathode Surface Coating Technology for High-Energy Lithium-Ion and Beyond-Lithium-Ion Batteries. Advanced Materials, 2017, 29, 1605807.	11.1	168
90	Carbon-Coated Core-Shell Fe-Cu Nanoparticles as Highly Active and Durable Electrocatalysts for a Zn-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. <i>Nano Energy</i> , 2017, 42, 69-89.	8.2	157
92	Metal-Free Ketjenblack Incorporated Nitrogen-Doped Carbon Sheets Derived from Gelatin as Oxygen Reduction Catalysts. <i>Nano Letters</i> , 2014, 14, 1870-1876.	4.5	155
93	Washing Effect of a $\text{LiNi}_{0.83}\text{Co}_{0.15}\text{Al}_{0.02}\text{O}_2$ Cathode in Water. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, A19.	2.2	154
94	Single crystalline pyrochlore nanoparticles with metallic conduction as efficient bi-functional oxygen electrocatalysts for Zn-air batteries. <i>Energy and Environmental Science</i> , 2017, 10, 129-136.	15.6	154
95	Unsymmetrical fluorinated malonateborate as an amphoteric additive for high-energy-density lithium-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 1552-1562.	15.6	154
96	A New High Power $\text{LiNi}_{0.81}\text{Co}_{0.1}\text{Al}_{0.09}\text{O}_2$ Cathode Material for Lithium-ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301583.	10.2	153
97	Issues and Challenges Facing Flexible Lithium-ion Batteries for Practical Application. <i>Small</i> , 2018, 14, e1702989.	5.2	152
98	Micron-sized Fe-Cu-Si ternary composite anodes for high energy Li-ion batteries. <i>Energy and Environmental Science</i> , 2016, 9, 1251-1257.	15.6	147
99	Effect of Preparation Methods of $\text{LiNi}_{1-x}\text{Co}_x\text{O}_2$ Cathode Materials on Their Chemical Structure and Electrode Performance. <i>Journal of the Electrochemical Society</i> , 1999, 146, 3571-3576.	1.3	146
100	Superior Long-Term Energy Retention and Volumetric Energy Density for Li-Rich Cathode Materials. <i>Nano Letters</i> , 2014, 14, 5965-5972.	4.5	145
101	Fully Conjugated Phthalocyanine Copper Metal-Organic Frameworks for Sodium-Iodine Batteries with Long Cycling Durability. <i>Advanced Materials</i> , 2020, 32, e1905361.	11.1	143
102	Raman Spectroscopic and X-ray Diffraction Studies of Sulfur Composite Electrodes during Discharge and Charge. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1308-A1314.	1.3	141
103	The Heterostructure of $\text{Ru}_2\text{P}/\text{WO}_3/\text{NPC}$ Synergistically Promotes H_2O Dissociation for Improved Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4110-4116.	7.2	141
104	Significant Improvement of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathodes at 60°C by SiO_2 Dry Coating for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010, 157, A625.	1.3	140
105	Novel Core-Shell Sn-Cu Anodes for Lithium Rechargeable Batteries Prepared by a Redox-Transmetalation Reaction. <i>Advanced Materials</i> , 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. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5987-5990.	7.2	137
107	Spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanowires for High-Rate Li-Ion Intercalation Electrode. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, A81.	2.2	133
108	PVP-Assisted ZrO_2 coating on LiMn_2O_4 spinel cathode nanoparticles prepared by MnO_2 nanowire templates. <i>Electrochemistry Communications</i> , 2008, 10, 1478-1481.	2.3	133

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109	Electrochemical Stability of Thin-Film LiCoO ₂ Cathodes 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} O ₂ cathode materials for Li-ion batteries at elevated temperatures. Journal of Materials Chemistry A, 2015, 3, 13453-13460.	5.2	131
112	A Novel Lithium-Doping Approach for an Advanced Lithium Ion Capacitor. Advanced Energy Materials, 2011, 1, 1002-1006.	10.2	130
113	Boosting Reaction Homogeneity in High-Energy Lithium-Ion Battery Cathode Materials. Advanced Materials, 2020, 32, e2003040.	11.1	130
114	High-Performance ZrO ₂ -Coated LiNiO 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/HfO ₂ for enhanced hydrogen evolution. Nature Communications, 2022, 13, 1270.	5.8	126
118	Sn ₇₈ Ge ₂₂ @Carbon Core-Shell Nanowires as Fast and High-Capacity Lithium Storage Media. Nano Letters, 2007, 7, 2638-2641.	4.5	125
119	Advanced Technologies for High-Energy Aluminum-Air Batteries. Advanced Materials, 2019, 31, e1804784.	11.1	125
120	Effect of LiCoO 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} O ₂ Cathode 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 _{0.8} Co _{0.1+x} Mn _{0.1-x} O 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 ₃ (PO ₄) ₂ Nanoparticle Coating on High-Capacity LiNi _{0.8} Co _{0.16} Al _{0.04} O ₂ Cathode Material for Lithium Rechargeable Batteries. Journal of the Electrochemical Society, 2007, 154, A495.	1.3	120
126	LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathode materials prepared by TiO ₂ nanoparticle coatings on Ni _{0.8} Co _{0.15} Al _{0.05} (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 All-Solid-State Lithium Batteries via One-to-One Comparison with Conventional Liquid Lithium Ion Batteries. Advanced Materials, 2019, 31, e1900376.	11.1	119
130	Comparison of Overcharge Behavior of AlPO ₄ -Coated LiCoO ₂ and LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Materials in Li-Ion Cells. Journal of the Electrochemical Society, 2004, 151, A1707.		118
131	Lithium reaction mechanism and high rate capability of VS ₄ -graphene nanocomposite as an anode material for lithium batteries. Journal of Materials Chemistry A, 2014, 2, 10847-10853.	5.2	118
132	LiNi _{0.74} Co _{0.26-x} Mg _x O ₂ Cathode Material for a Li-Ion Cell. Chemistry of Materials, 2000, 12, 3089-3094.	3.2	117
133	Comparison of Al ₂ O ₃ - and AlPO ₄ -coated LiCoO ₂ cathode materials for a Li-ion cell. Journal of Power Sources, 2005, 146, 58-64.	4.0	117
134	Rate Characteristics of Anatase TiO 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 _{3-λ} Catalysts with Enhanced Electrochemical Performance by Removing an Inherent Heterogeneous Surface Film Layer. Advanced Materials, 2015, 27, 266-271.	11.1	114
136	Si-Encapsulating Hollow Carbon Electrodes via Electroless Etching for Lithium-Ion Batteries. Advanced Energy Materials, 2013, 3, 206-212.	10.2	113
137	Exploring Critical Factors Affecting Strain Distribution in 1D Silicon-Based Nanostructures for Lithium-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	Calendering-Compatible Macroporous Architecture for Silicon-Graphite Composite toward High-Energy Lithium-Ion Batteries. Advanced Materials, 2020, 32, e2003286.	11.1	111
140	Antimony-Based Composites Loaded on Phosphorus-Doped Carbon for Boosting Faradaic Efficiency of the Electrochemical Nitrogen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 13329-13334.	7.2	108
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