

Yang-Kook Sun

List of Publications by Year in descending order

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693
papers

78,537
citations

279

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724
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docs citations

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times ranked

30099
citing authors

#	ARTICLE	IF	CITATIONS
19	Synthetic optimization of Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ via co-precipitation. <i>Electrochimica Acta</i> , 2004, 50, 939-948.	2.6	535
20	Recent Progress in Rechargeable Potassium Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1802938.	7.8	518
21	The Application of Metal Sulfides in Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601329.	10.2	496
22	Role of Alumina Coating on Li ⁺ Ni ²⁺ Co ³⁺ Mn ⁴⁺ O Particles as Positive Electrode Material for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2005, 17, 3695-3704.	3.2	493
23	Electrochemical Zinc Intercalation in Lithium Vanadium Oxide: A High-Capacity Zinc-Ion Battery Cathode. <i>Chemistry of Materials</i> , 2017, 29, 1684-1694.	3.2	479
24	Na ₂ V ₆ O ₁₆ ·3H ₂ O Barnesite Nanorod: An Open Door to Display a Stable and High Energy for Aqueous Rechargeable Zn-Ion Batteries as Cathodes. <i>Nano Letters</i> , 2018, 18, 2402-2410.	4.5	461
25	Titanium-Based Anode Materials for Safe Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 959-969.	7.8	456
26	Microscale spherical carbon-coated Li ₄ Ti ₅ O ₁₂ as ultra high power anode material for lithium batteries. <i>Energy and Environmental Science</i> , 2011, 4, 1345.	15.6	433
27	Anatase Titania Nanorods as an Intercalation Anode Material for Rechargeable Sodium Batteries. <i>Nano Letters</i> , 2014, 14, 416-422.	4.5	422
28	Synthesis and Characterization of Li[(Ni _{0.8} Co _{0.1} Mn _{0.1}) _{0.8} (Ni _{0.5} Mn _{0.5}) _{0.2}]O ₂ with the Microscale Core-Shell Structure as the Positive Electrode Material for Lithium Batteries. <i>Journal of the American Chemical Society</i> , 2005, 127, 13411-13418.	6.6	417
29	Mn(II) deposition on anodes and its effects on capacity fade in spinel lithium manganate-carbon systems. <i>Nature Communications</i> , 2013, 4, 2437.	5.8	409
30	An Advanced Lithium Ion Battery Based on High Performance Electrode Materials. <i>Journal of the American Chemical Society</i> , 2011, 133, 3139-3143.	6.6	382
31	A nanostructured cathode architecture for low charge overpotential in lithium-oxygen batteries. <i>Nature Communications</i> , 2013, 4, 2383.	5.8	379
32	Ruthenium-Based Electrocatalysts Supported on Reduced Graphene Oxide for Lithium-Air Batteries. <i>ACS Nano</i> , 2013, 7, 3532-3539.	7.3	369
33	Double Carbon Coating of LiFePO ₄ as High Rate Electrode for Rechargeable Lithium Batteries. <i>Advanced Materials</i> , 2010, 22, 4842-4845.	11.1	361
34	Nanostructured Anode Material for High-Power Battery System in Electric Vehicles. <i>Advanced Materials</i> , 2010, 22, 3052-3057.	11.1	359
35	Reversible NaFePO ₄ electrode for sodium secondary batteries. <i>Electrochemistry Communications</i> , 2012, 22, 149-152.	2.3	350
36	Improved Cycling Stability of Li[Ni _{0.90} Co _{0.05} Mn _{0.05}]O ₂ Through Microstructure Modification by Boron Doping for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801202.	10.2	336

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37	A high-rate long-life Li ₄ Ti ₅ O ₁₂ /Li[Ni _{0.45} Co _{0.1} Mn _{1.45}]O ₄ lithium-ion battery. Nature Communications, 2011, 2, 516.	5.8	327
38	Pushing the limit of layered transition metal oxide cathodes for high-energy density rechargeable Li ion batteries. Energy and Environmental Science, 2018, 11, 1271-1279.	15.6	322
39	Electrochemical behavior and passivation of current collectors in lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 9891.	6.7	320
40	Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ as a suitable cathode for high power applications. Journal of Power Sources, 2003, 123, 247-252.	4.0	314
41	Beyond Doping and Coating: Prospective Strategies for Stable High-Capacity Layered Ni-Rich Cathodes. ACS Energy Letters, 2020, 5, 1136-1146.	8.8	313
42	An Advanced Lithium-Sulfur Battery. Advanced Functional Materials, 2013, 23, 1076-1080.	7.8	310
43	High-Energy, High-Rate, Lithium-Sulfur Batteries: Synergetic Effect of Hollow TiO ₂ -Webbed Carbon Nanotubes and a Dual Functional Carbon-Paper Interlayer. Advanced Energy Materials, 2016, 6, 1501480.	10.2	308
44	NaCrO ₂ cathode for high-rate sodium-ion batteries. Energy and Environmental Science, 2015, 8, 2019-2026.	15.6	307
45	An effective method to reduce residual lithium compounds on Ni-rich Li[Ni _{0.6} Co _{0.2} Mn _{0.2}]O ₂ active material using a phosphoric acid derived Li ₃ PO ₄ nanolayer. Nano Research, 2015, 8, 1464-1479.	5.8	304
46	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. ACS Energy Letters, 2020, 5, 2376-2400.	8.8	303
47	Evaluation of (CF ₃ SO ₂) ₂ N ⁺ (TFSI) Based Electrolyte Solutions for Mg Batteries. Journal of the Electrochemical Society, 2015, 162, A7118-A7128.	1.3	301
48	High-Performance Carbon-LiMnPO ₄ Nanocomposite Cathode for Lithium Batteries. Advanced Functional Materials, 2010, 20, 3260-3265.	7.8	298
49	Facile synthesis and the exploration of the zinc storage mechanism of ²⁺ MnO ₂ nanorods with exposed (101) planes as a novel cathode material for high performance eco-friendly zinc-ion batteries. Journal of Materials Chemistry A, 2017, 5, 23299-23309.	5.2	297
50	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. ACS Energy Letters, 2019, 4, 2995-3001.	8.8	297
51	Aqueous rechargeable Zn-ion batteries: an imperishable and high-energy Zn ₂ V ₂ O ₇ nanowire cathode through intercalation regulation. Journal of Materials Chemistry A, 2018, 6, 3850-3856.	5.2	293
52	Structural Stability of LiNiO ₂ Cycled above 4.2 V. ACS Energy Letters, 2017, 2, 1150-1155.	8.8	292
53	Degradation Mechanism of Ni-Enriched NCA Cathode for Lithium Batteries: Are Microcracks Really Critical?. ACS Energy Letters, 2019, 4, 1394-1400.	8.8	290
54	Advanced Na[Ni _{0.25} Fe _{0.5} Mn _{0.25}]O ₂ /Fe ₃ O ₄ Sodium-Ion Batteries Using EMS Electrolyte for Energy Storage. Nano Letters, 2014, 14, 1620-1626.		283

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55	Heuristic solution for achieving long-term cycle stability for Ni-rich layered cathodes at full depth of discharge. <i>Nature Energy</i> , 2020, 5, 860-869.	19.8	278
56	High-energy-density lithium-ion battery using a carbon-nanotube/Si composite anode and a compositionally graded $\text{Li}[\text{Ni}_{0.85}\text{Co}_{0.05}\text{Mn}_{0.10}]_2\text{O}_2$ cathode. <i>Energy and Environmental Science</i> , 2016, 9, 2152-2158.	15.6	269
57	Effect of Residual Lithium Compounds on Layer Ni-Rich $\text{Li}[\text{Ni}_{0.7}\text{Mn}_{0.3}]_2\text{O}_2$. <i>Journal of the Electrochemical Society</i> , 2014, 161, A920-A926.	1.3	267
58	Capacity Fading Mechanisms in Ni-Rich Single-Crystal NCM Cathodes. <i>ACS Energy Letters</i> , 2021, 6, 2726-2734.	8.8	258
59	Redox Mediators for LiO_2 Batteries: Status and Perspectives. <i>Advanced Materials</i> , 2018, 30, 1704162.	11.1	258
60	Electrochemical performance of nano-sized ZnO-coated $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ spinel as 5 V materials at elevated temperatures. <i>Electrochemistry Communications</i> , 2002, 4, 344-348.	2.3	257
61	Effectively suppressing dissolution of manganese from spinel lithium manganate via a nanoscale surface-doping approach. <i>Nature Communications</i> , 2014, 5, 5693.	5.8	255
62	A Novel Cathode Material with a Concentration Gradient for High Energy and Safe Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2010, 20, 485-491.	7.8	252
63	Diverting Exploration of Silicon Anode into Practical Way: A Review Focused on Silicon-Graphite Composite for Lithium Ion Batteries. <i>Energy Storage Materials</i> , 2021, 35, 550-576.	9.5	248
64	Significant improvement of high voltage cycling behavior AlF ₃ -coated LiCoO_2 cathode. <i>Electrochemistry Communications</i> , 2006, 8, 821-826.	2.3	245
65	Nanostructured metal phosphide-based materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14915-14931.	5.2	240
66	Synthesis and Electrochemical Properties of ZnO-Coated $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Spinel as 5 V Cathode Material for Lithium Secondary Batteries. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, A99.	2.2	237
67	Improvement of long-term cycling performance of $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}]\text{O}_2$ by AlF ₃ coating. <i>Journal of Power Sources</i> , 2013, 234, 201-207.	4.0	237
68	Cobalt-Free Nickel Rich Layered Oxide Cathodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11434-11440.	4.0	236
69	Surface modification of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ by ZrP ₂ O ₇ and ZrO ₂ for lithium-ion batteries. <i>Journal of Power Sources</i> , 2010, 195, 2909-2913.	4.0	235
70	Molten salt synthesis of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ spinel for 5 V class cathode material of Li-ion secondary battery. <i>Electrochimica Acta</i> , 2004, 49, 219-227.	2.6	231
71	LiO_2 cells with LiBr as an electrolyte and a redox mediator. <i>Energy and Environmental Science</i> , 2016, 9, 2334-2345.	15.6	229
72	Synthesis and electrochemical properties of $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}]\text{O}_2$ and $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.2}]\text{O}_2$ via co-precipitation. <i>Journal of Power Sources</i> , 2006, 159, 1328-1333.	4.0	228

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73	Black anatase titania enabling ultra high cycling rates for rechargeable lithium batteries. <i>Energy and Environmental Science</i> , 2013, 6, 2609.	15.6	221
74	Recent Progress and Perspective of Advanced High-Energy Co-Less Ni-Rich Cathodes for Li-Ion Batteries: Yesterday, Today, and Tomorrow. <i>Advanced Energy Materials</i> , 2020, 10, 2002027.	10.2	221
75	Structural transformation and electrochemical study of layered MnO ₂ in rechargeable aqueous zinc-ion battery. <i>Electrochimica Acta</i> , 2018, 276, 1-11.	2.6	220
76	Nano/Microstructured Silicon-Graphite Composite Anode for High-Energy-Density Li-Ion Battery. <i>ACS Nano</i> , 2019, 13, 2624-2633.	7.3	219
77	New Insights on Graphite Anode Stability in Rechargeable Batteries: Li Ion Coordination Structures Prevail over Solid Electrolyte Interphases. <i>ACS Energy Letters</i> , 2018, 3, 335-340.	8.8	217
78	Quaternary Layered Ni-Rich NCMA Cathode for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2019, 4, 576-582.	8.8	217
79	Surface modification of cathode materials from nano- to microscale for rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 7074.	6.7	214
80	Layered Li(Ni _{0.5-x} Mn _{0.5-x} M _{2x})O ₂ (M ²⁺ =Co, Al, Ti; x=0, 0.025) cathode materials for Li-ion rechargeable batteries. <i>Journal of Power Sources</i> , 2002, 112, 41-48.	4.0	213
81	Amorphous iron phosphate: potential host for various charge carrier ions. <i>NPG Asia Materials</i> , 2014, 6, e138-e138.	3.8	213
82	High Electrochemical Performances of Microsphere C-TiO ₂ Anode for Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11295-11301.	4.0	213
83	Synthesis and structural characterization of layered Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ cathode materials by ultrasonic spray pyrolysis method. <i>Electrochimica Acta</i> , 2004, 49, 557-563.	2.6	210
84	Radially aligned hierarchical columnar structure as a cathode material for high energy density sodium-ion batteries. <i>Nature Communications</i> , 2015, 6, 6865.	5.8	210
85	A Mo ₂ C/Carbon Nanotube Composite Cathode for Lithium-Oxygen Batteries with High Energy Efficiency and Long Cycle Life. <i>ACS Nano</i> , 2015, 9, 4129-4137.	7.3	207
86	Bottom-up in situ formation of Fe ₃ O ₄ nanocrystals in a porous carbon foam for lithium-ion battery anodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 17325.	6.7	205
87	Ni ₃ (PO ₄) ₂ -coated Li[Ni _{0.8} Co _{0.15} Al _{0.05}]O ₂ lithium battery electrode with improved cycling performance at 55 °C. <i>Journal of Power Sources</i> , 2011, 196, 7742-7746.	4.0	204
88	K ₂ V ₆ O ₁₆ ·2.7H ₂ O nanorod cathode: an advanced intercalation system for high energy aqueous rechargeable Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15530-15539.	5.2	201
89	An Advanced Lithium-Air Battery Exploiting an Ionic Liquid-Based Electrolyte. <i>Nano Letters</i> , 2014, 14, 6572-6577.	4.5	200
90	Significant Improvement of Electrochemical Performance of AlF ₃ -Coated Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2007, 154, A1005.	1.3	199

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91	Extracting maximum capacity from Ni-rich $\text{Li}[\text{Ni}_{0.95}\text{Co}_{0.025}\text{Mn}_{0.025}]\text{O}_2$ cathodes for high-energy-density lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4126-4132.	5.2	199
92	Recent research trends in S batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11582-11605.	5.2	199
93	Effect of calcination temperature on morphology, crystallinity and electrochemical properties of nano-crystalline metal oxides (Co_3O_4 , CuO , and NiO) prepared via ultrasonic spray pyrolysis. <i>Journal of Power Sources</i> , 2007, 173, 502-509.	4.0	189
94	High-Energy Ni-Rich $\text{Li}[\text{Ni}_x\text{Co}_y\text{Mn}_{1-x-y}]\text{O}_2$ Cathodes via Compositional Partitioning for Next-Generation Electric Vehicles. <i>Chemistry of Materials</i> , 2017, 29, 10436-10445.	3.2	189
95	Evidence for lithium superoxide-like species in the discharge product of a LiO_2 battery. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3764.	1.3	188
96	Understanding the behavior of LiO_2 cells containing LiI . <i>Journal of Materials Chemistry A</i> , 2015, 3, 8855-8864.	5.2	187
97	Effect of the size-selective silver clusters on lithium peroxide morphology in lithium oxygen batteries. <i>Nature Communications</i> , 2014, 5, 4895.	5.8	186
98	High Capacity and Excellent Stability of Lithium Ion Battery Anode Using Interface-Controlled Binder-Free Multiwall Carbon Nanotubes Grown on Copper. <i>ACS Nano</i> , 2010, 4, 3440-3446.	7.3	184
99	Synthesis of Porous Carbon Supported Palladium Nanoparticle Catalysts by Atomic Layer Deposition: Application for Rechargeable LiO_2 Battery. <i>Nano Letters</i> , 2013, 13, 4182-4189.	4.5	184
100	Transition metal carbide-based materials: synthesis and applications in electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10379-10393.	5.2	184
101	A high energy and power density hybrid supercapacitor based on an advanced carbon-coated $\text{Li}_4\text{Ti}_5\text{O}_{12}$ electrode. <i>Journal of Power Sources</i> , 2013, 221, 266-271.	4.0	183
102	Micrometer-Sized, Nanoporous, High-Volumetric Capacity $\text{LiMn}_{0.85}\text{Fe}_{0.15}\text{PO}_4$ Cathode Material for Rechargeable Lithium Ion Batteries. <i>Advanced Materials</i> , 2011, 23, 5050-5054.	11.1	180
103	Electrochemical characterization of Li_2MnO_3 - $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ - LiNiO_2 cathode synthesized via co-precipitation for lithium secondary batteries. <i>Journal of Power Sources</i> , 2009, 189, 571-575.	4.0	178
104	On the Safety of the $\text{Li}_4\text{Ti}_5\text{O}_{12}$ - LiMn_2O_4 Lithium-Ion Battery System. <i>Journal of the Electrochemical Society</i> , 2007, 154, A1083.	1.3	177
105	Structural and Electrochemical Properties of Layered $\text{Li}[\text{Ni}_{1-2x}\text{Co}_x\text{Mn}_x]\text{O}_2$ ($x=0.1\sim 0.3$) Positive Electrode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2007, 154, A971.	1.3	177
106	Improvement of electrochemical and thermal properties of $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}]\text{O}_2$ positive electrode materials by multiple metal (Al, Mg) substitution. <i>Electrochimica Acta</i> , 2009, 54, 3851-3856.	2.6	177
107	Na Storage Capability Investigation of a Carbon Nanotube-Encapsulated Fe_{1-x}S Composite. <i>ACS Energy Letters</i> , 2017, 2, 364-372.	8.8	176
108	High Capacity O3-Type $\text{Na}[\text{Li}_{0.05}\text{Ni}_{0.25}\text{Fe}_{0.25}\text{Mn}_{0.5}]\text{O}_2$ Cathode for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 6165-6171.		175

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109	Suppressing detrimental phase transitions <i>via</i> tungsten doping of LiNiO ₂ cathode for next-generation lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18580-18588.	5.2	175
110	Microstructure- ϵ -Controlled Ni-Rich Cathode Material by Microscale Compositional Partition for Next-Generation Electric Vehicles. <i>Advanced Energy Materials</i> , 2019, 9, 1803902.	10.2	175
111	The dominant role of Mn ²⁺ additive on the electrochemical reaction in ZnMn ₂ O ₄ cathode for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2020, 28, 407-417.	9.5	175
112	Reducing cobalt from lithium-ion batteries for the electric vehicle era. <i>Energy and Environmental Science</i> , 2021, 14, 844-852.	15.6	174
113	Development of Microstrain in Aged Lithium Transition Metal Oxides. <i>Nano Letters</i> , 2014, 14, 4873-4880.	4.5	171
114	Transition metal-doped Ni-rich layered cathode materials for durable Li-ion batteries. <i>Nature Communications</i> , 2021, 12, 6552.	5.8	167
115	Increased Stability Toward Oxygen Reduction Products for Lithium-Air Batteries with Oligoether-Functionalized Silane Electrolytes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25535-25542.	1.5	166
116	Nano/Microstructured Silicon-Carbon Hybrid Composite Particles Fabricated with Corn Starch Biowaste as Anode Materials for Li-Ion Batteries. <i>Nano Letters</i> , 2020, 20, 625-635.	4.5	164
117	Electrochemical stability and conductivity enhancement of composite polymer electrolytes. <i>Solid State Ionics</i> , 2003, 159, 111-119.	1.3	163
118	Functionality of Oxide Coating for Li[Li _{0.05} Ni _{0.4} Co _{0.15} Mn _{0.4}]O ₂ as Positive Electrode Materials for Lithium-Ion Secondary Batteries. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4061-4067.	1.5	163
119	A highly stabilized Ni-rich NCA cathode for high-energy lithium-ion batteries. <i>Materials Today</i> , 2020, 36, 73-82.	8.3	163
120	Extending the Battery Life Using an Al-Doped Li[Ni _{0.76} Co _{0.09} Mn _{0.15}]O ₂ Cathode with Concentration Gradients for Lithium Ion Batteries. <i>ACS Energy Letters</i> , 2017, 2, 1848-1854.	8.8	162
121	Self-Passivation of a LiNiO ₂ Cathode for a Lithium-Ion Battery through Zr Doping. <i>ACS Energy Letters</i> , 2018, 3, 1634-1639.	8.8	161
122	Cation Ordering of Zr-Doped LiNiO ₂ Cathode for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 1808-1814.	3.2	160
123	New Insight on the Role of Electrolyte Additives in Rechargeable Lithium Ion Batteries. <i>ACS Energy Letters</i> , 2019, 4, 2613-2622.	8.8	160
124	Aqueous Magnesium Zinc Hybrid Battery: An Advanced High-Voltage and High-Energy MgMn ₂ O ₄ Cathode. <i>ACS Energy Letters</i> , 2018, 3, 1998-2004.	8.8	159
125	AlF ₃ -Coating to Improve High Voltage Cycling Performance of Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ Cathode Materials for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2007, 154, A168.	1.3	158
126	Development of P ₃ -K _{0.69} CrO ₂ as an ultra-high-performance cathode material for K-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2821-2827.	15.6	157

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127	Degradation mechanisms in doped spinels of $\text{LiM}_{0.05}\text{Mn}_{1.95}\text{O}_4$ (M=Li, B, Al, Co, and Ni) for Li secondary batteries. <i>Journal of Power Sources</i> , 2000, 89, 7-14.	4.0	155
128	A contribution to the progress of high energy batteries: A metal-free, lithium-ion, silicon-sulfur battery. <i>Journal of Power Sources</i> , 2012, 202, 308-313.	4.0	155
129	Formation and Inhibition of Metallic Lithium Microstructures in Lithium Batteries Driven by Chemical Crossover. <i>ACS Nano</i> , 2017, 11, 5853-5863.	7.3	155
130	Nanostructured TiO_2 and Its Application in Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2011, 21, 3231-3241.	7.8	154
131	Rational design of silicon-based composites for high-energy storage devices. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5366-5384.	5.2	154
132	High-Capacity Concentration Gradient $\text{Li}[\text{Ni}_{0.865}\text{Co}_{0.120}\text{Al}_{0.015}]\text{O}_2$ Cathode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1703612.	10.2	154
133	Superior Li/Na-storage capability of a carbon-free hierarchical CoS_x hollow nanostructure. <i>Nano Energy</i> , 2017, 32, 320-328.	8.2	152
134	Degradation Mechanism of Highly Ni-Rich $\text{Li}[\text{Ni}_x\text{Co}_y\text{Mn}_{1-x-y}]\text{O}_2$ Cathodes with $x > 0.9$. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30936-30942.	4.0	152
135	Promising All-Solid-State Batteries for Future Electric Vehicles. <i>ACS Energy Letters</i> , 2020, 5, 3221-3223.	8.8	151
136	Preparation and characterization of nano-crystalline $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ for 5 V cathode material by composite carbonate process. <i>Electrochemistry Communications</i> , 2002, 4, 989-994.	2.3	149
137	Study on the Catalytic Activity of Noble Metal Nanoparticles on Reduced Graphene Oxide for Oxygen Evolution Reactions in Lithium-Air Batteries. <i>Nano Letters</i> , 2015, 15, 4261-4268.	4.5	149
138	A Metal-Free, Lithium-Ion Oxygen Battery: A Step Forward to Safety in Lithium-Air Batteries. <i>Nano Letters</i> , 2012, 12, 5775-5779.	4.5	148
139	Improvement of structural and electrochemical properties of AlF_3 -coated $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ cathode materials on high voltage region. <i>Journal of Power Sources</i> , 2008, 178, 826-831.	4.0	144
140	Physical and electrochemical properties of spherical $\text{Li}_{1+x}(\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3})_{1-x}\text{O}_2$ cathode materials. <i>Journal of Power Sources</i> , 2008, 177, 177-183.	4.0	144
141	Achieving high mass loading of $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ @carbon on carbon cloth by constructing three-dimensional network between carbon fibers for ultralong cycle-life and ultrahigh rate sodium-ion batteries. <i>Nano Energy</i> , 2018, 45, 136-147.	8.2	143
142	A New P_2 -Type Layered Oxide Cathode with Extremely High Energy Density for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803346.	10.2	143
143	Self-Rearrangement of Silicon Nanoparticles Embedded in Micro-Carbon Sphere Framework for High-Energy and Long-Life Lithium-Ion Batteries. <i>Nano Letters</i> , 2017, 17, 5600-5606.	4.5	142
144	Improvement of Electrochemical Performances of $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}]\text{O}_2$ Cathode Materials by Fluorine Substitution. <i>Journal of the Electrochemical Society</i> , 2007, 154, A649.	1.3	141

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145	Rechargeable lithium sulfide electrode for a polymer tin/sulfur lithium-ion battery. Journal of Power Sources, 2011, 196, 343-348.	4.0	141
146	Alternative materials for sodium ion "sulphur batteries. Journal of Materials Chemistry A, 2013, 1, 5256.	5.2	141
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