

Seung-Taek Myung

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#	Paper	IF	Citations
272	Sodium-ion batteries: present and future. <i>Chemical Society Reviews</i> , 2017 , 46, 3529-3614	58.5	2356
271	High-energy cathode material for long-life and safe lithium batteries. <i>Nature Materials</i> , 2009 , 8, 320-4	27	1155
270	Detailed studies of a high-capacity electrode material for rechargeable batteries, $\text{Li}_2\text{MnO}_3\text{-LiCo}(1/3)\text{Ni}(1/3)\text{Mn}(1/3)\text{O}_2$. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4404-19	16.4	957
269	Nanostructured high-energy cathode materials for advanced lithium batteries. <i>Nature Materials</i> , 2012 , 11, 942-7	27	781
268	Nickel-Rich and Lithium-Rich Layered Oxide Cathodes: Progress and Perspectives. <i>Advanced Energy Materials</i> , 2016 , 6, 1501010	21.8	742
267	Nickel-Rich Layered Cathode Materials for Automotive Lithium-Ion Batteries: Achievements and Perspectives. <i>ACS Energy Letters</i> , 2017 , 2, 196-223	20.1	726
266	Comparative Study of $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ - δ and $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ Cathodes Having Two Crystallographic Structures: $\text{Fd}\bar{3}m$ and P4332 . <i>Chemistry of Materials</i> , 2004 , 16, 906-914	9.6	603
265	Synthetic optimization of $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ via co-precipitation. <i>Electrochimica Acta</i> , 2004 , 50, 939-948	6.7	461
264	Role of Alumina Coating on $\text{LiNi}_{1-x}\text{Co}_x\text{MnO}$ Particles as Positive Electrode Material for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2005 , 17, 3695-3704	9.6	440
263	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 2620-2640	20.1	439
262	Microscale spherical carbon-coated $\text{Li}_4\text{Ti}_5\text{O}_{12}$ as ultra high power anode material for lithium batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 1345	35.4	399
261	Anatase titania nanorods as an intercalation anode material for rechargeable sodium batteries. <i>Nano Letters</i> , 2014 , 14, 416-22	11.5	376
260	Synthesis and characterization of $\text{Li}[(\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1})_{0.8}(\text{Ni}_{0.5}\text{Mn}_{0.5})_{0.2}]\text{O}_2$ with the microscale core-shell structure as the positive electrode material for lithium batteries. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13411-8	16.4	363
259	Recent Progress in Rechargeable Potassium Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1802938	15.6	362
258	Nanostructured anode material for high-power battery system in electric vehicles. <i>Advanced Materials</i> , 2010 , 22, 3052-7	24	338
257	Double carbon coating of LiFePO_4 as high rate electrode for rechargeable lithium batteries. <i>Advanced Materials</i> , 2010 , 22, 4842-5	24	329
256	Reversible NaFePO_4 electrode for sodium secondary batteries. <i>Electrochemistry Communications</i> , 2012 , 22, 149-152	5.1	294

255	Electrochemical behavior and passivation of current collectors in lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9891		254
254	Advanced Na[Ni _{0.25} Fe _{0.5} Mn _{0.25}]O ₂ /C-Fe ₃ O ₄ sodium-ion batteries using EMS electrolyte for energy storage. <i>Nano Letters</i> , 2014 , 14, 1620-6	11.5	241
253	NaCrO ₂ cathode for high-rate sodium-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 2019-2026	35.4	239
252	Significant improvement of high voltage cycling behavior AlF ₃ -coated LiCoO ₂ cathode. <i>Electrochemistry Communications</i> , 2006 , 8, 821-826	5.1	226
251	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	15.6	225
250	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. <i>Nano Research</i> , 2015 , 8, 1464-1479	10	222
249	High-energy-density lithium-ion battery using a carbon-nanotube/Si composite anode and a compositionally graded Li[Ni _{0.85} Co _{0.05} Mn _{0.10}]O ₂ cathode. <i>Energy and Environmental Science</i> , 2016 , 9, 2152-2158	35.4	221
248	Molten salt synthesis of LiNi _{0.5} Mn _{1.5} O ₄ spinel for 5 V class cathode material of Li-ion secondary battery. <i>Electrochimica Acta</i> , 2004 , 49, 219-227	6.7	213
247	Black anatase titania enabling ultra high cycling rates for rechargeable lithium batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 2609	35.4	198
246	Structural Stability of LiNiO ₂ Cycled above 4.2 V. <i>ACS Energy Letters</i> , 2017 , 2, 1150-1155	20.1	197
245	Effect of Residual Lithium Compounds on Layer Ni-Rich Li[Ni _{0.7} Mn _{0.3}]O ₂ . <i>Journal of the Electrochemical Society</i> , 2014 , 161, A920-A926	3.9	197
244	Surface modification of cathode materials from nano- to microscale for rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7074		187
243	Effects of Al doping on the microstructure of LiCoO ₂ cathode materials. <i>Solid State Ionics</i> , 2001 , 139, 47-56	3.3	187
242	Enhanced Structural Stability and Cyclability of Al-Doped LiMn ₂ O ₄ Spinel Synthesized by the Emulsion Drying Method. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A482	3.9	171
241	Emulsion drying synthesis of olivine LiFePO ₄ /C composite and its electrochemical properties as lithium intercalation material. <i>Electrochimica Acta</i> , 2004 , 49, 4213-4222	6.7	170
240	Radially aligned hierarchical columnar structure as a cathode material for high energy density sodium-ion batteries. <i>Nature Communications</i> , 2015 , 6, 6865	17.4	160
239	Cobalt-free nickel rich layered oxide cathodes for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11434-40	9.5	158
238	Structural and Electrochemical Properties of Layered Li[Ni _{1-x} Co _x Mn _x]O ₂ (x=0.10.3) Positive Electrode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A971	3.9	152

237	Nano-crystalline LiNi _{0.5} Mn _{1.5} O ₄ synthesized by emulsion drying method. <i>Electrochimica Acta</i> , 2002 , 47, 2543-2549	6.7	152
236	High Capacity O ₃ -Type Na[Li _{0.05} (Ni _{0.25} Fe _{0.25} Mn _{0.5}) _{0.95}]O ₂ Cathode for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 6165-6171	9.6	148
235	Improvement of electrochemical and thermal properties of Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ positive electrode materials by multiple metal (Al, Mg) substitution. <i>Electrochimica Acta</i> , 2009 , 54, 3851-3856	6.7	147
234	Nanostructured TiO ₂ and Its Application in Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2011 , 21, 3231-3241	15.6	146
233	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	3.8	143
232	Improvement of structural and electrochemical properties of AlF ₃ -coated Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ cathode materials on high voltage region. <i>Journal of Power Sources</i> , 2008 , 178, 826-831	8.9	132
231	Improvement of High-Voltage Cycling Behavior of Surface-Modified Li[Ni _{1-β} Co _β Mn _{1-β}]O ₂ Cathodes by Fluorine Substitution for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1707	3.9	129
230	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	35.4	121
229	Improvement of Electrochemical Performances of Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ Cathode Materials by Fluorine Substitution. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A649	3.9	121
228	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	20.1	115
227	A novel concentration-gradient Li[Ni _{0.83} Co _{0.07} Mn _{0.10}]O ₂ cathode material for high-energy lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10108		113
226	Ultrafast sodium storage in anatase TiO ₂ nanoparticles embedded on carbon nanotubes. <i>Nano Energy</i> , 2015 , 16, 218-226	17.1	112
225	Phase Transitions in Li[Ni _{1-β} Co _β Mn _{1-β}]O ₂ during Cycling at 5 V. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A216		104
224	Synthesis of Spherical Nano- to Microscale Core/Shell Particles Li[(Ni _{0.8} Co _{0.1} Mn _{0.1}) _{1-x} (Ni _{0.5} Mn _{0.5}) _x]O ₂ and Their Applications to Lithium Batteries. <i>Chemistry of Materials</i> , 2006 , 18, 5159-5163	9.6	103
223	Effect of Ti Substitution for Mn on the Structure of LiNi _{0.5} Mn _{1.5-x} Ti _x O ₄ and Their Electrochemical Properties as Lithium Insertion Material. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1911	3.9	103
222	Compositionally Graded Cathode Material with Long-Term Cycling Stability for Electric Vehicles Application. <i>Advanced Energy Materials</i> , 2016 , 6, 1601417	21.8	102
221	Carbon-coated Li ₄ Ti ₅ O ₁₂ nanowires showing high rate capability as an anode material for rechargeable sodium batteries. <i>Nano Energy</i> , 2015 , 12, 725-734	17.1	102
220	Improved electrochemical properties of BiOF-coated 5V spinel Li[Ni _{0.5} Mn _{1.5}]O ₄ for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2010 , 195, 2023-2028	8.9	99

219	Effect of AlF ₃ coating amount on high voltage cycling performance of LiCoO ₂ . <i>Electrochimica Acta</i> , 2007 , 53, 1013-1019	6.7	99
218	Electrochemical and thermal characterization of AlF ₃ -coated Li[Ni _{0.8} Co _{0.15} Al _{0.05}]O ₂ cathode in lithium-ion cells. <i>Journal of Power Sources</i> , 2008 , 179, 347-350	8.9	97
217	Hollandite-type Al-doped VO _{1.52} (OH) _{0.77} as a zinc ion insertion host material. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8367-8375	13	95
216	Comparative Study of Ni-Rich Layered Cathodes for Rechargeable Lithium Batteries: Li[Ni _{0.85} Co _{0.11} Al _{0.04}]O ₂ and Li[Ni _{0.84} Co _{0.06} Mn _{0.09} Al _{0.01}]O ₂ with Two-Step Full Concentration Gradients. <i>ACS Energy Letters</i> , 2016 , 1, 283-289	20.1	94
215	Double-structured LiMn(0.85)Fe(0.15)PO ₄ coordinated with LiFePO ₄ for rechargeable lithium batteries. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1853-6	16.4	94
214	Effect of AlF ₃ Coating on Thermal Behavior of Chemically Delithiated Li _{0.35} [Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4710-4718	3.8	93
213	High-voltage performance of concentration-gradient Li[Ni _{0.67} Co _{0.15} Mn _{0.18}]O ₂ cathode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010 , 55, 8621-8627	6.7	91
212	Corrosion behavior of austenitic stainless steels as a function of pH for use as bipolar plates in polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , 2008 , 53, 4205-4212	6.7	90
211	Sodium-Ion Batteries: Building Effective Layered Cathode Materials with Long-Term Cycling by Modifying the Surface via Sodium Phosphate. <i>Advanced Functional Materials</i> , 2018 , 28, 1705968	15.6	89
210	Synthesis of Nanostructured Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ via a Modified Carbonate Process. <i>Chemistry of Materials</i> , 2005 , 17, 6-8	9.6	88
209	Novel core-shell-structured Li[(Ni _{0.8} Co _{0.2}) _{0.8} (Ni _{0.5} Mn _{0.5}) _{0.2}]O ₂ via coprecipitation as positive electrode material for lithium secondary batteries. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6810-5	3.4	88
208	Nanostructured cathode materials for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2015 , 283, 219-236	8.9	87
207	Synthesis of spherical Li[Ni(1/3)Co(1/3)Mn(1/3)Mg _z]O ₂ as positive electrode material for lithium-ion battery. <i>Electrochimica Acta</i> , 2006 , 51, 2447-2453	6.7	87
206	Synthesis and Electrochemical Properties of Li[Ni _{1/3} Co _{1/3} Mn _(1/3) Mg _x]O ₂ F _y via Coprecipitation. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A477		87
205	Enhanced electrochemical performance of carbon/LiMn _{1-x} Fe _x PO ₄ nanocomposite cathode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 6924-6928	8.9	86
204	AlF ₃ -coated LiCoO ₂ and Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ blend composite cathode for lithium ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 6974-6977	8.9	85
203	An advanced sodium-ion rechargeable battery based on a tin-carbon anode and a layered oxide framework cathode. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3827-33	3.6	81
202	Hydrothermal synthesis of layered Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ as positive electrode material for lithium secondary battery. <i>Electrochimica Acta</i> , 2005 , 50, 4800-4806	6.7	81

201	Synthesis of $\text{LiNi}_0.5\text{Mn}_0.5-x\text{Ti}_x\text{O}_2$ by an Emulsion Drying Method and Effect of Ti on Structure and Electrochemical Properties. <i>Chemistry of Materials</i> , 2005 , 17, 2427-2435	9.6	79
200	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	21.8	78
199	$\text{K}_{0.54}[\text{Co}_{0.5}\text{Mn}_{0.5}]\text{O}_2$: New cathode with high power capability for potassium-ion batteries. <i>Nano Energy</i> , 2019 , 61, 284-294	17.1	77
198	Electrochemical behavior of current collectors for lithium batteries in non-aqueous alkyl carbonate solution and surface analysis by ToF-SIMS. <i>Electrochimica Acta</i> , 2009 , 55, 288-297	6.7	77
197	Resolving the degradation pathways of the O3-type layered oxide cathode surface through the nano-scale aluminum oxide coating for high-energy density sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23671-23680	13	76
196	Nanoporous Structured LiFePO_4 with Spherical Microscale Particles Having High Volumetric Capacity for Lithium Batteries. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, A181		75
195	Open-Structured Vanadium Dioxide as an Intercalation Host for Zn Ions: Investigation by First-Principles Calculation and Experiments. <i>Chemistry of Materials</i> , 2018 , 30, 6777-6787	9.6	75
194	Synthesis of $\text{Li}[(\text{Ni}_{0.5}\text{Mn}_{0.5})_{1-x}\text{Li}_x]\text{O}_2$ by Emulsion Drying Method and Impact of Excess Li on Structural and Electrochemical Properties. <i>Chemistry of Materials</i> , 2006 , 18, 1658-1666	9.6	73
193	A mini-review on the development of Si-based thin film anodes for Li-ion batteries. <i>Materials Today Energy</i> , 2018 , 9, 49-66	7	70
192	Cathode Materials for Future Electric Vehicles and Energy Storage Systems. <i>ACS Energy Letters</i> , 2017 , 2, 703-708	20.1	69
191	Dual functioned BiOF-coated $\text{Li}[\text{Li}_{0.1}\text{Al}_{0.05}\text{Mn}_{1.85}]\text{O}_4$ for lithium batteries. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1995		69
190	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	19.4	69
189	Co-precipitation synthesis of micro-sized spherical $\text{LiMn}_{0.5}\text{Fe}_{0.5}\text{PO}_4$ cathode material for lithium batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 19368		68
188	Hydrothermal synthesis and electrochemical behavior of orthorhombic LiMnO_2 . <i>Electrochimica Acta</i> , 2002 , 47, 3287-3295	6.7	68
187	Novel Cathode Materials for Na-Ion Batteries Composed of Spoke-Like Nanorods of $\text{Na}[\text{Ni}_{0.61}\text{Co}_{0.12}\text{Mn}_{0.27}]\text{O}_2$ Assembled in Spherical Secondary Particles. <i>Advanced Functional Materials</i> , 2016 , 26, 8083-8093	15.6	65
186	Spherical core-shell $\text{Li}[(\text{Li}_{0.05}\text{Mn}_{0.95})_{0.8}(\text{Ni}_{0.25}\text{Mn}_{0.75})_{0.2}]\text{O}_4$ spinels as high performance cathodes for lithium batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 935	35.4	62
185	Exceptionally highly stable cycling performance and facile oxygen-redox of manganese-based cathode materials for rechargeable sodium batteries. <i>Nano Energy</i> , 2019 , 59, 197-206	17.1	62
184	Role of AlF_3 Coating on LiCoO_2 Particles during Cycling to Cutoff Voltage above 4.5 V. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A1005	3.9	60

183	Nanoparticle TiN-coated type 310S stainless steel as bipolar plates for polymer electrolyte membrane fuel cell. <i>Electrochemistry Communications</i> , 2008 , 10, 480-484	5.1	59
182	Electrochemical evaluation of mixed oxide electrode for Li-ion secondary batteries: Li _{1.1} Mn _{1.9} O ₄ and LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ . <i>Journal of Power Sources</i> , 2005 , 146, 222-225	8.9	58
181	Bioinspired Surface Layer for the Cathode Material of High-Energy-Density Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702942	21.8	57
180	Particle size effect of Li[Ni _{0.5} Mn _{0.5}]O ₂ prepared by co-precipitation. <i>Electrochimica Acta</i> , 2008 , 53, 6033-6037	6.0	57
179	Effect of fluorine on Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ as lithium intercalation material. <i>Journal of Power Sources</i> , 2005 , 146, 602-605	8.9	55
178	Re-heating effect of Ni-rich cathode material on structure and electrochemical properties. <i>Journal of Power Sources</i> , 2016 , 313, 1-8	8.9	54
177	Improvement of electrochemical properties of Li _{1.1} Al _{0.05} Mn _{1.85} O ₄ achieved by an AlF ₃ coating. <i>Journal of Power Sources</i> , 2011 , 196, 1353-1357	8.9	54
176	Co-Free Layered Cathode Materials for High Energy Density Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1814-1824	20.1	53
175	Carbon-coated magnetite embedded on carbon nanotubes for rechargeable lithium and sodium batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11749-57	9.5	53
174	Polyvinylpyrrolidone-assisted synthesis of microscale C-LiFePO ₄ with high tap density as positive electrode materials for lithium batteries. <i>Electrochimica Acta</i> , 2010 , 55, 1193-1199	6.7	52
173	Progress in High-Capacity Core-Shell Cathode Materials for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 671-9	6.4	50
172	Olivine LiCoPO ₄ /carbon composite showing high rechargeable capacity. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14932		50
171	Effects of synthesis condition on LiNi _{1/2} Mn _{3/2} O ₄ cathode material for prepared by ultrasonic spray pyrolysis method. <i>Solid State Ionics</i> , 2005 , 176, 481-486	3.3	50
170	Effects of Co doping on Li[Ni _{0.5} Co _x Mn _{1.5-x}]O ₄ spinel materials for 5 V lithium secondary batteries via Co-precipitation. <i>Journal of Power Sources</i> , 2009 , 189, 752-756	8.9	49
169	Reducing cobalt from lithium-ion batteries for the electric vehicle era. <i>Energy and Environmental Science</i> , 2021 , 14, 844-852	35.4	49
168	Neutron powder diffraction studies of LiMn ₂ /Al _y O ₄ synthesized by the emulsion drying method. <i>Solid State Ionics</i> , 2002 , 149, 47-52	3.3	47
167	Capacity fading of LiMn ₂ O ₄ electrode synthesized by the emulsion drying method. <i>Journal of Power Sources</i> , 2000 , 90, 103-108	8.9	47
166	Synthesis and electrochemical performances of core-shell structured Li[(Ni _{1/3} Co _{1/3} Mn _{1/3}) _{0.8} (Ni _{1/2} Mn _{1/2}) _{0.2}]O ₂ cathode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2010 , 195, 6043-6048	8.9	46

165	A New Strategy to Build a High-Performance P2-Type Cathode Material through Titanium Doping for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1901912	15.6	45
164	Improvement of structural integrity and battery performance of LiNi _{0.5} Mn _{0.5} O ₂ by Al and Ti doping. <i>Journal of Power Sources</i> , 2005 , 146, 645-649	8.9	45
163	Iron trifluoride synthesized via evaporation method and its application to rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2013 , 223, 1-8	8.9	44
162	The effects of calcination temperature on the electrochemical performance of LiMnPO ₄ prepared by ultrasonic spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2010 , 506, 372-376	5.7	44
161	Co-precipitation synthesis of spherical Li _{1.05} M _{0.05} Mn _{1.9} O ₄ (M = Ni, Mg, Al) spinel and its application for lithium secondary battery cathode. <i>Electrochimica Acta</i> , 2007 , 52, 5201-5206	6.7	44
160	Role of the Mn substituent in Na ₃ V ₂ (PO ₄) ₃ for high-rate sodium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16627-16637	13	42
159	Improved Electrochemical Cycling Behavior of ZnO-Coated Li _{1.05} Al _{0.1} Mn _{1.85} O _{3.95} F _{0.05} Spinel at 55°C. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1290	3.9	42
158	Revisit of layered sodium manganese oxides: achievement of high energy by Ni incorporation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8558-8567	13	41
157	Efficient recycling of valuable resources from discarded lithium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 426, 259-265	8.9	40
156	Improvement of the Electrochemical Properties of Li[Ni _{0.5} Mn _{0.5}]O ₂ by AlF ₃ Coating. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A705	3.9	40
155	Effect of titanium addition as nickel oxide formation inhibitor in nickel-rich cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 299, 425-433	8.9	39
154	Nickel oxalate dihydrate nanorods attached to reduced graphene oxide sheets as a high-capacity anode for rechargeable lithium batteries. <i>NPG Asia Materials</i> , 2016 , 8, e270-e270	10.3	39
153	Graphene Decorated by Indium Sulfide Nanoparticles as High-Performance Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23723-23730	9.5	38
152	High-Energy Layered Oxide Cathodes with Thin Shells for Improved Surface Stability. <i>Chemistry of Materials</i> , 2014 , 26, 5973-5979	9.6	38
151	LiNi _{0.5} Mn _{1.5} O ₄ Showing Reversible Phase Transition on 3 V Region. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A163		37
150	Preparation and electrochemical characterization of LiCoO ₂ by the emulsion drying method. <i>Journal of Applied Electrochemistry</i> , 2000 , 30, 1081-1085	2.6	37
149	Effect of nickel and iron on structural and electrochemical properties of O ₃ type layer cathode materials for sodium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 324, 106-112	8.9	37
148	Vanadium dioxide [Reduced graphene oxide composite as cathode materials for rechargeable Li and Na batteries. <i>Journal of Power Sources</i> , 2016 , 326, 522-532	8.9	37

147	Potassium vanadate as a new cathode material for potassium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 432, 24-29	8.9	36
146	Optimization of Layered Cathode Material with Full Concentration Gradient for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 175-182	3.8	36
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