

# Seung-Taek Myung

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

272  
papers

23,855  
citations

76  
h-index

149  
g-index

284  
ext. papers

26,923  
ext. citations

10.9  
avg, IF

7.51  
L-index

#	Paper	IF	Citations
272	Rechargeable zinc-ion batteries with manganese dioxide cathode: How critical is choice of manganese dioxide polymorphs in aqueous solutions?. <i>Journal of Power Sources</i> , <b>2022</b> , 523, 231023	8.9	1
271	Facilitating sustainable oxygen-redox chemistry for P3-type cathode materials for sodium-ion batteries. <i>Energy Storage Materials</i> , <b>2022</b> , 46, 329-343	19.4	0
270	Lithium dendritic growth inhibitor enabling high capacity, dendrite-free, and high current operation for rechargeable lithium batteries. <i>Energy Storage Materials</i> , <b>2022</b> , 46, 76-89	19.4	4
269	Sulfurized Carbon Composite with Unprecedentedly High Tap Density for Sodium Storage. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2102836	21.8	
268	Bio-Derived Surface Layer Suitable for Long Term Cycling Ni-Rich Cathode for Lithium-Ion Batteries. <i>Small</i> , <b>2021</b> , 17, e2104532	11	1
267	A New Approach to Stable Cationic and Anionic Redox Activity in O3-Layered Cathode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100901	21.8	7
266	Promising sodium storage of bismuthinite by conversion chemistry. <i>Energy Storage Materials</i> , <b>2021</b> , 38, 241-248	19.4	4
265	Diverting Exploration of Silicon Anode into Practical Way: A Review Focused on Silicon-Graphite Composite for Lithium Ion Batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 35, 550-576	19.4	69
264	WO Nanowire/Carbon Nanotube Interlayer as a Chemical Adsorption Mediator for High-Performance Lithium-Sulfur Batteries. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
263	Recent advancements in solid electrolytes integrated into all-solid-state 2D and 3D lithium-ion microbatteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 15140-15178	13	10
262	Reducing cobalt from lithium-ion batteries for the electric vehicle era. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 844-852	35.4	49
261	An exceptionally large energy cathode with the $\text{KSO}_4/\text{Cu}$ conversion reaction for potassium rechargeable batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5475-5484	13	1
260	Electronic Structure Engineering of Honeycomb Layered Cathode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003399	21.8	11
259	Recent Advances in Electrode Materials with Anion Redox Chemistry for Sodium-Ion Batteries. <i>Energy Material Advances</i> , <b>2021</b> , 2021, 1-22	1	9
258	Gifts from Nature: Bio-Inspired Materials for Rechargeable Secondary Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006019	24	8
257	Long Life Anode Material for Potassium Ion Batteries with High-Rate Potassium Storage. <i>Energy Storage Materials</i> , <b>2021</b> , 40, 197-208	19.4	2
256	Highly concentrated electrolyte enabling high-voltage application of metallic components for potassium-ion batteries. <i>Journal of Power Sources</i> , <b>2021</b> , 510, 230436	8.9	1

255	Rational design of Co-free layered cathode material for sodium-ion batteries. <i>Journal of Power Sources</i> , <b>2021</b> , 514, 230581	8.9	3
254	Bismuth telluride anode boosting highly reversible electrochemical activity for potassium storage. <i>Energy Storage Materials</i> , <b>2021</b> , 43, 411-421	19.4	1
253	Na <sub>2</sub> Fe <sub>2</sub> F <sub>7</sub> : a fluoride-based cathode for high power and long life Na-ion batteries. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 1469-1479	35.4	6
252	Anticipated Progress in the Near- to Mid-Term Future of LIBs <b>2020</b> , 1-32		
251	Co-Free Layered Cathode Materials for High Energy Density Lithium-Ion Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1814-1824	20.1	53
250	High-Voltage Oxygen-Redox-Based Cathode for Rechargeable Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001111	21.8	34
249	Understanding the role of trace amount of Fe incorporated in Ni-rich Li[Ni <sub>1-x-y</sub> CoxMny]O <sub>2</sub> cathode material. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155342	5.7	17
248	Mn-Rich P <sub>2</sub> -Na <sub>0.67</sub> [Ni <sub>0.1</sub> Fe <sub>0.1</sub> Mn <sub>0.8</sub> ]O <sub>2</sub> as High-Energy-Density and Long-Life Cathode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001346	21.8	18
247	Nature-Derived Cellulose-Based Composite Separator for Sodium-Ion Batteries. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 153	5	15
246	Revealing sodium storage mechanism in lithium titanium phosphate: Combined experimental and theoretical study. <i>Journal of Power Sources</i> , <b>2020</b> , 455, 227976	8.9	8
245	Construction of silica-oxygen-borate hybrid networks on Al <sub>2</sub> O <sub>3</sub> -coated polyethylene separators realizing multifunction for high-performance lithium ion batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 472, 228445	8.9	15
244	An optimized approach toward high energy density cathode material for K-ion batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 27, 342-351	19.4	22
243	Development of K <sub>4</sub> Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> (P <sub>2</sub> O <sub>7</sub> ) as a novel Fe-based cathode with high energy densities and excellent cyclability in rechargeable potassium batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 28, 47-54	19.4	20
242	Oxalate-Based High-Capacity Conversion Anode for Potassium Storage. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3743-3750	8.3	6
241	Synthesis and Electrochemical Reaction of a Pitch Carbon-Coated Zinc Vanadium Oxide Anode with Excellent Electrochemical Performance for Rechargeable Lithium Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1908-1915	8.3	5
240	P <sub>2</sub> -K <sub>0.75</sub> [Ni <sub>1/3</sub> Mn <sub>2/3</sub> ]O <sub>2</sub> Cathode Material for High Power and Long Life Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903605	21.8	28
239	Development of Novel Cathode with Large Lithium Storage Mechanism Based on Pyrophosphate-Based Conversion Reaction for Rechargeable Lithium Batteries. <i>Small Methods</i> , <b>2020</b> , 4, 1900847	12.8	3
238	Good practice guide for papers on batteries for the Journal of Power Sources. <i>Journal of Power Sources</i> , <b>2020</b> , 452, 227824	8.9	15

237	KTi (PO ) Electrode with a Long Cycling Stability for Potassium-Ion Batteries. <i>Small</i> , <b>2020</b> , 16, e2001090	11	17
236	Pulse electrodeposited bismuth-tellurium superlattices with controllable bismuth content. <i>Journal of Power Sources</i> , <b>2020</b> , 450, 227605	8.9	5
235	Development of a New Mixed-Polyanion Cathode with Superior Electrochemical Performances for Na-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 163-171	8.3	14
234	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> , <b>2020</b> , 10, 2002027	21.8	78
233	A new pre-sodiation additive for sodium-ion batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 32, 281-289	19.4	20
232	Exceptionally high-energy tunnel-type V <sub>1.5</sub> Cr <sub>0.5</sub> O <sub>4.5</sub> H nanocomposite as a novel cathode for Na-ion batteries. <i>Nano Energy</i> , <b>2020</b> , 77, 105175	17.1	6
231	KV3O8 with a large interlayer as a viable cathode material for zinc-ion batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 478, 229072	8.9	3
230	High-power rhombohedral-Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> with outstanding cycle-performance as Fe-based cathode for K-ion batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 33, 276-282	19.4	6
229	New Insight on Open-Structured Sodium Vanadium Oxide as High-Capacity and Long Life Cathode for Zn-Ion Storage: Structure, Electrochemistry, and First-Principles Calculation. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001595	21.8	32
228	High-Voltage Stability in KFSI Nonaqueous Carbonate Solutions for Potassium-Ion Batteries: Current Collectors and Coin-Cell Components. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 42723-42733	9.5	5
227	Facile migration of potassium ions in a ternary P3-type K <sub>0.5</sub> [Mn <sub>0.8</sub> Fe <sub>0.1</sub> Ni <sub>0.1</sub> ]O <sub>2</sub> cathode in rechargeable potassium batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 714-723	19.4	36
226	New conversion chemistry of CuSO <sub>4</sub> as ultra-high-energy cathode material for rechargeable sodium battery. <i>Energy Storage Materials</i> , <b>2020</b> , 24, 458-466	19.4	13
225	Controllable charge capacity using a black additive for high-energy-density sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3903-3909	13	26
224	Understanding on the structural and electrochemical performance of orthorhombic sodium manganese oxides. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 202-211	13	31
223	Nb-Doped titanium phosphate for sodium storage: electrochemical performance and structural insights. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5748-5759	13	15
222	Potassium vanadate as a new cathode material for potassium-ion batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 432, 24-29	8.9	36
221	Development of Na <sub>2</sub> FePO <sub>4</sub> F/Conducting-Polymer composite as an exceptionally high performance cathode material for Na-ion batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 432, 1-7	8.9	19
220	Monoclinic Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : A new Fe-based cathode material with superior electrochemical performances for Na-ion batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 434, 226750	8.9	9

219	A New Strategy to Build a High-Performance P2-Type Cathode Material through Titanium Doping for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901912	15.6	45
218	Passivation of aluminum current collectors in non-aqueous carbonate solutions containing sodium or potassium hexafluorophosphate salts. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13012-13018	13	11
217	Impact of Na <sub>2</sub> MoO <sub>4</sub> nanolayers autogenously formed on tunnel-type Na <sub>0.44</sub> MnO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13522-13530	13	14
216	Hollandite-Type VO <sub>1.75</sub> (OH) <sub>0.5</sub> : Effective Sodium Storage for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900603	21.8	13
215	Efficient recycling of valuable resources from discarded lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 426, 259-265	8.9	40
214	K <sub>0.54</sub> [Co <sub>0.5</sub> Mn <sub>0.5</sub> ]O <sub>2</sub> : New cathode with high power capability for potassium-ion batteries. <i>Nano Energy</i> , <b>2019</b> , 61, 284-294	17.1	77
213	Cycling Stability of Layered Potassium Manganese Oxide in Nonaqueous Potassium Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 27770-27779	9.5	23
212	Controlled Oxygen Redox for Excellent Power Capability in Layered Sodium-Based Compounds. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901181	21.8	29
211	P2-NaMnO by Co Incorporation: As a Cathode Material of High Capacity and Long Cycle Life for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28928-28933	9.5	24
210	The Conversion Chemistry for High-Energy Cathodes of Rechargeable Sodium Batteries. <i>ACS Nano</i> , <b>2019</b> , 13, 11707-11716	16.7	9
209	Layered KMnO <sub>1.15</sub> HO as a Cathode Material for Potassium-Ion Intercalation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 43312-43319	9.5	16
208	Unveiling yavapaiite-type K <sub>x</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> as a new Fe-based cathode with outstanding electrochemical performance for potassium-ion batteries. <i>Nano Energy</i> , <b>2019</b> , 66, 104184	17.1	17
207	CHAPTER 2: Layered Ni-rich Cathode Materials <b>2019</b> , 26-43		2
206	Exceptionally highly stable cycling performance and facile oxygen-redox of manganese-based cathode materials for rechargeable sodium batteries. <i>Nano Energy</i> , <b>2019</b> , 59, 197-206	17.1	62
205	Are type 316L stainless steel coin cells stable in nonaqueous carbonate solutions containing NaPF <sub>6</sub> or KPF <sub>6</sub> salt?. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26250-26260	13	7
204	New Insight into Ethylenediaminetetraacetic Acid Tetrasodium Salt as a Sacrificing Sodium Ion Source for Sodium-Deficient Cathode Materials for Full Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5957-5965	9.5	18
203	Quaternary Transition Metal Oxide Layered Framework: O3-Type Na[Ni <sub>0.32</sub> Fe <sub>0.13</sub> Co <sub>0.15</sub> Mn <sub>0.40</sub> ]O <sub>2</sub> Cathode Material for High-Performance Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 13500-13507	3.8	24
202	Revisit of layered sodium manganese oxides: achievement of high energy by Ni incorporation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8558-8567	13	41

201	Sodium-Ion Batteries: Building Effective Layered Cathode Materials with Long-Term Cycling by Modifying the Surface via Sodium Phosphate. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705968	15.6	89
200	Bioinspired Surface Layer for the Cathode Material of High-Energy-Density Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702942	21.8	57
199	Exceptional Effect of Benzene in Uniform Carbon Coating of SiO <sub>x</sub> Nanocomposite for High-Performance Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A1247-A1253	3.9	7
198	Rocksalt-type metal sulfide anodes for high-rate sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6867-6873	13	14
197	Confinement of nanosized tin(IV) oxide particles on rGO sheets and its application to sodium-ion full cells as a high capacity anode material. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 339-346	5.7	11
196	Role of the Mn substituent in Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> for high-rate sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16627-16637	13	42
195	Development of P3-K <sub>0.69</sub> CrO <sub>2</sub> as an ultra-high-performance cathode material for K-ion batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2821-2827	35.4	121
194	Unexpectedly high electrochemical performances of a monoclinic Na <sub>2.4</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /conductive polymer composite for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17571-17578	13	17
193	Marcasite iron sulfide as a high-capacity electrode material for sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17111-17119	13	19
192	Exceptional effect of glassy lithium fluorophosphate on Mn-rich olivine cathode material for high-performance Li ion batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 374, 55-60	8.9	3
191	Recent Progress in Rechargeable Potassium Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802938	15.6	362
190	Unraveling the Role of Earth-Abundant Fe in the Suppression of Jahn-Teller Distortion of P <sub>2</sub> -Type NaMnO: Experimental and Theoretical Studies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 40978-40984	8.5	36
189	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2620-2640	20.1	439
188	Conversion Chemistry of Cobalt Oxalate for Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 40523-40530	9.5	6
187	Open-Structured Vanadium Dioxide as an Intercalation Host for Zn Ions: Investigation by First-Principles Calculation and Experiments. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6777-6787	9.6	75
186	Highly enhancement of the SiO nanocomposite through Ti-doping and carbon-coating for high-performance Li-ion battery. <i>Journal of Power Sources</i> , <b>2018</b> , 400, 613-620	8.9	32
185	A mini-review on the development of Si-based thin film anodes for Li-ion batteries. <i>Materials Today Energy</i> , <b>2018</b> , 9, 49-66	7	70
184	Cathode Materials for Future Electric Vehicles and Energy Storage Systems. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 703-708	20.1	69

183	Hollandite-type Al-doped VO <sub>1.52</sub> (OH) <sub>0.77</sub> as a zinc ion insertion host material. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8367-8375	13	95
182	Effect of carbon-sulphur bond in a sulphur/dehydrogenated polyacrylonitrile/reduced graphene oxide composite cathode for lithium-sulphur batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 355, 140-146	8.9	21
181	Structural Stability of LiNiO <sub>2</sub> Cycled above 4.2 V. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1150-1155	20.1	197
180	Graphene Decorated by Indium Sulfide Nanoparticles as High-Performance Anode for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23723-23730	9.5	38
179	Sodium-ion batteries: present and future. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 3529-3614	58.5	2356
178	Nickel-Rich Layered Cathode Materials for Automotive Lithium-Ion Batteries: Achievements and Perspectives. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 196-223	20.1	726
177	Effect of Mn in LiVMn(PO) as High Capacity Cathodes for Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 40307-40316	9.5	24
176	Development of a new alluaudite-based cathode material with high power and long cyclability for application in Na ion batteries in real-life. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22334-22340	13	18
175	Tunnel-type FeOOH cathode material for high rate sodium storage via a new conversion reaction. <i>Nano Energy</i> , <b>2017</b> , 41, 687-696	17.1	30
174	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> , <b>2017</b> , 5, 23671-23680	13	76
173	Synthesis and Electrochemical Reaction of Tin Oxalate-Reduced Graphene Oxide Composite Anode for Rechargeable Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25941-25951	9.5	28
172	Extending the Battery Life Using an Al-Doped Li[Ni <sub>0.76</sub> Co <sub>0.09</sub> Mn <sub>0.15</sub> ]O <sub>2</sub> Cathode with Concentration Gradients for Lithium Ion Batteries. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1848-1854	20.1	115
171	Compositionally Graded Cathode Material with Long-Term Cycling Stability for Electric Vehicles Application. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601417	21.8	102
170	Comparative Study of Ni-Rich Layered Cathodes for Rechargeable Lithium Batteries: Li[Ni <sub>0.85</sub> Co <sub>0.11</sub> Al <sub>0.04</sub> ]O <sub>2</sub> and Li[Ni <sub>0.84</sub> Co <sub>0.06</sub> Mn <sub>0.09</sub> Al <sub>0.01</sub> ]O <sub>2</sub> with Two-Step Full Concentration Gradients. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 283-289	20.1	94
169	Nickel oxalate dihydrate nanorods attached to reduced graphene oxide sheets as a high-capacity anode for rechargeable lithium batteries. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e270-e270	10.3	39
168	Re-heating effect of Ni-rich cathode material on structure and electrochemical properties. <i>Journal of Power Sources</i> , <b>2016</b> , 313, 1-8	8.9	54
167	Nickel-Rich and Lithium-Rich Layered Oxide Cathodes: Progress and Perspectives. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501010	21.8	742
166	High-energy-density lithium-ion battery using a carbon-nanotube $\beta$ composite anode and a compositionally graded Li[Ni <sub>0.85</sub> Co <sub>0.05</sub> Mn <sub>0.10</sub> ]O <sub>2</sub> cathode. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2152-2158	35.4	221

165	Effect of nickel and iron on structural and electrochemical properties of O3 type layer cathode materials for sodium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 324, 106-112	8.9	37
164	Synthesis of LiVOPO by Emulsion Drying Method for Use as an Anode Material for Rechargeable Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 25856-25862	9.5	4
163	Stability of type 310S stainless steel bipolar plates tested at various current densities in proton exchange membrane fuel cells. <i>Electrochimica Acta</i> , <b>2016</b> , 211, 754-760	6.7	12
162	Novel Cathode Materials for Na-Ion Batteries Composed of Spoke-Like Nanorods of Na[Ni <sub>0.61</sub> Co <sub>0.12</sub> Mn <sub>0.27</sub> ]O <sub>2</sub> Assembled in Spherical Secondary Particles. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8083-8093	15.6	65
161	Vanadium dioxide [Reduced graphene oxide composite as cathode materials for rechargeable Li and Na batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 522-532	8.9	37
160	Nanostructured cathode materials for rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 283, 219-236	8.9	87
159	Ultrafast sodium storage in anatase TiO <sub>2</sub> nanoparticles embedded on carbon nanotubes. <i>Nano Energy</i> , <b>2015</b> , 16, 218-226	17.1	112
158	A new synthetic method of titanium oxyfluoride and its application as an anode material for rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 288, 376-383	8.9	13
157	Radially aligned hierarchical columnar structure as a cathode material for high energy density sodium-ion batteries. <i>Nature Communications</i> , <b>2015</b> , 6, 6865	17.4	160
156	NaCrO <sub>2</sub> cathode for high-rate sodium-ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2019-2026	15.4	239
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> , <b>2015</b> , 299, 425-433	8.9	39
154	Effect of Lithium in Transition Metal Layers of Ni-Rich Cathode Materials on Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2313-A2318	3.9	14
153	An effective method to reduce residual lithium compounds on Ni-rich Li[Ni <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> ]O <sub>2</sub> active material using a phosphoric acid derived Li <sub>3</sub> PO <sub>4</sub> nanolayer. <i>Nano Research</i> , <b>2015</b> , 8, 1464-1479	10	222
152	Surface coating effect on thermal properties of delithiated lithium nickel manganese layer oxide. <i>Journal of Power Sources</i> , <b>2015</b> , 282, 511-519	8.9	10
151	Carbothermal synthesis of molybdenum(IV) oxide as a high rate anode for rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 280, 1-4	8.9	14
150	Carbon-coated anatase titania as a high rate anode for lithium batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 281, 362-369	8.9	21
149	Carbon-coated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanowires showing high rate capability as an anode material for rechargeable sodium batteries. <i>Nano Energy</i> , <b>2015</b> , 12, 725-734	17.1	102
148	Thermal properties of fully delithiated olivines. <i>Journal of Power Sources</i> , <b>2014</b> , 256, 479-484	8.9	9



147	Progress in High-Capacity Core-Shell Cathode Materials for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 671-9	6.4	50
146	Anatase titania nanorods as an intercalation anode material for rechargeable sodium batteries. <i>Nano Letters</i> , <b>2014</b> , 14, 416-22	11.5	376
145	Effect of Residual Lithium Compounds on Layer Ni-Rich Li[Ni <sub>0.7</sub> Mn <sub>0.3</sub> ]O <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A920-A926	3.9	197
144	Electrochemical Properties of Polyaniline-Coated Li-Rich Nickel Manganese Oxide and Role of Polyaniline Coating Layer. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A142-A148	3.9	28
143	Optimization of Layered Cathode Material with Full Concentration Gradient for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 175-182	3.8	36
142	Nanorod and nanoparticle shells in concentration gradient core-shell lithium oxides for rechargeable lithium batteries. <i>ChemSusChem</i> , <b>2014</b> , 7, 3295-303	8.3	15
141	High Capacity O <sub>3</sub> -Type Na[Li <sub>0.05</sub> (Ni <sub>0.25</sub> Fe <sub>0.25</sub> Mn <sub>0.5</sub> ) <sub>0.95</sub> ]O <sub>2</sub> Cathode for Sodium Ion Batteries. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6165-6171	9.6	148
140	High-Energy Layered Oxide Cathodes with Thin Shells for Improved Surface Stability. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5973-5979	9.6	38
139	Electrochemical stability of aluminum current collector in alkyl carbonate electrolytes containing lithium bis(pentafluoroethylsulfonyl)imide for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 271, 167-173	8.9	11
138	Carbon-coated magnetite embedded on carbon nanotubes for rechargeable lithium and sodium batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 11749-57	9.5	53
137	Low Temperature Electrochemical Properties of Li[Ni <sub>x</sub> Co <sub>y</sub> Mn <sub>1-x-y</sub> ]O <sub>2</sub> Cathode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A1514-A1520	3.9	23
136	Performance improvement of liquid phase plasma processed carbon blacks electrode in lithium ion battery applications. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2014</b> , 15, 1689-1693	1.7	3
135	Advanced Na[Ni <sub>0.25</sub> Fe <sub>0.5</sub> Mn <sub>0.25</sub> ]O <sub>2</sub> /C-Fe <sub>3</sub> O <sub>4</sub> sodium-ion batteries using EMS electrolyte for energy storage. <i>Nano Letters</i> , <b>2014</b> , 14, 1620-6	11.5	241
134	Formation of a Continuous Solid-Solution Particle and its Application to Rechargeable Lithium Batteries. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1028-1036	15.6	36
133	Core-Shell Structure Cathode Materials for Rechargeable Lithium Batteries <b>2013</b> , 89-105		3
132	Black anatase titania enabling ultra high cycling rates for rechargeable lithium batteries. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2609	35.4	198
131	Cobalt-free nickel rich layered oxide cathodes for lithium-ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 11434-40	9.5	158
130	Electrochemical properties of the TiO <sub>2</sub> (B) powders ball mill treated for lithium-ion battery application. <i>Chemistry Central Journal</i> , <b>2013</b> , 7, 174		8

129	An advanced sodium-ion rechargeable battery based on a tin-carbon anode and a layered oxide framework cathode. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 3827-33	3.6	81
128	Iron trifluoride synthesized via evaporation method and its application to rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 223, 1-8	8.9	44
127	Preparation of carbon blacks by liquid phase plasma (LPP) process. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 7381-5	1.3	11
126	Effect of anatase phase on electrochemical properties of the TiO <sub>2</sub> (B) negative electrode for lithium-ion battery application. <i>Current Applied Physics</i> , <b>2013</b> , 13, S148-S151	2.6	9
125	Microstructural Effect of Carbon Blacks for the Application in Lithium Ion Batteries. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 11NM01	1.4	6
124	Surface Properties of Stainless Steel Cathodically Treated in Nitrate Solution and its Application to PEFC Bipolar Plates. <i>Zairyo To Kankyo/Corrosion Engineering</i> , <b>2013</b> , 62, 439-442	0.5	3
123	High voltage retainable Ni-saving high nitrogen stainless steel bipolar plates for proton exchange membrane fuel cells: Phenomena and mechanism. <i>Journal of Power Sources</i> , <b>2012</b> , 202, 92-99	8.9	10
122	Direct observation of the passive layer on high nitrogen stainless steel used as bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2012</b> , 210, 92-95	8.9	10
121	Double-structured LiMn(0.85)Fe(0.15)PO <sub>4</sub> coordinated with LiFePO <sub>4</sub> for rechargeable lithium batteries. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1853-6	16.4	94
120	Nanostructured high-energy cathode materials for advanced lithium batteries. <i>Nature Materials</i> , <b>2012</b> , 11, 942-7	27	781
119	Reversible NaFePO <sub>4</sub> electrode for sodium secondary batteries. <i>Electrochemistry Communications</i> , <b>2012</b> , 22, 149-152	5.1	294
118	Olivine LiCoPO <sub>4</sub> /carbon composite showing high rechargeable capacity. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14932		50
117	Double-Structured LiMn <sub>0.85</sub> Fe <sub>0.15</sub> PO <sub>4</sub> Coordinated with LiFePO <sub>4</sub> for Rechargeable Lithium Batteries. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1889-1892	3.6	14
116	Electrochemical behavior and passivation of current collectors in lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 9891		254
115	Co-precipitation synthesis of micro-sized spherical LiMn <sub>0.5</sub> Fe <sub>0.5</sub> PO <sub>4</sub> cathode material for lithium batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 19368		68
114	Microscale spherical carbon-coated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> as ultra high power anode material for lithium batteries. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1345	35.4	399
113	A novel concentration-gradient Li[Ni <sub>0.83</sub> Co <sub>0.07</sub> Mn <sub>0.10</sub> ]O <sub>2</sub> cathode material for high-energy lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10108		113
112	Spherical core-shell Li[(Li <sub>0.05</sub> Mn <sub>0.95</sub> ) <sub>0.8</sub> (Ni <sub>0.25</sub> Mn <sub>0.75</sub> ) <sub>0.2</sub> ]O <sub>4</sub> spinels as high performance cathodes for lithium batteries. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 935	35.4	62

111	A Separate Style of Stainless Steel Bipolar Plate for PEMFC and its Corrosion Behavior. <i>Zairyo To Kankyo/ Corrosion Engineering</i> , <b>2011</b> , 60, 432-434	0.5	5
110	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> , <b>2011</b> , 133, 4404-19	16.4	957
109	Development of high power lithium-ion batteries: Layer $\text{Li}[\text{Ni}_{0.4}\text{Co}_{0.2}\text{Mn}_{0.4}]\text{O}_2$ and spinel $\text{Li}[\text{Li}_{0.1}\text{Al}_{0.05}\text{Mn}_{1.85}]\text{O}_4$ . <i>Journal of Power Sources</i> , <b>2011</b> , 196, 7039-7043	8.9	16
108	Improvement of electrochemical properties of $\text{Li}_{1.1}\text{Al}_{0.05}\text{Mn}_{1.85}\text{O}_4$ achieved by an $\text{AlF}_3$ coating. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 1353-1357	8.9	54
107	Nanostructured $\text{TiO}_2$ and Its Application in Lithium-Ion Storage. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 3231-3241	15.6	146
106	$\text{AlF}_3$ -coated $\text{LiCoO}_2$ and $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ blend composite cathode for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 6974-6977	8.9	85
105	Effects of manganese and cobalt on the electrochemical and thermal properties of layered $\text{Li}[\text{Ni}_{0.52}\text{Co}_{0.16+x}\text{Mn}_{0.32-x}]\text{O}_2$ cathode materials. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 6710-6715	8.9	21
104	Enhanced electrochemical performance of carbon $\text{-NiMn}$ $\text{-FePO}_4$ nanocomposite cathode for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 6924-6928	8.9	86
103	Effect of Manganese Content on the Electrochemical and Thermal Stabilities of $\text{Li}[\text{Ni}_{0.58}\text{Co}_{0.28-x}\text{Mn}_{0.14+x}]\text{O}_2$ Cathode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A1335	3.9	21
102	Effect of $\text{AlF}_3$ Coating on Thermal Behavior of Chemically Delithiated $\text{Li}_{0.35}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ . <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 4710-4718	3.8	93
101	The effects of calcination temperature on the electrochemical performance of $\text{LiMnPO}_4$ prepared by ultrasonic spray pyrolysis. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 506, 372-376	5.7	44
100	Surface modification of cathode materials from nano- to microscale for rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7074		187
99	Synthesis and electrochemical performances of core-shell structured $\text{Li}[(\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3})_{0.8}(\text{Ni}_{1/2}\text{Mn}_{1/2})_{0.2}]\text{O}_2$ cathode material for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 6043-6048	8.9	46
98	Applicability of extra low interstitials ferritic stainless steels for bipolar plates of proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 7181-7186	8.9	9
97	Electrochemical behavior of Al in a non-aqueous alkyl carbonate solution containing LiBOB salt. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 8297-8301	8.9	22
96	A Promising Alternative to PEMFC Graphite Bipolar Plates: Surface Modified Type 304 Stainless Steel with TiN Nanoparticles and Elastic Styrene Butadiene Rubber Particles. <i>Fuel Cells</i> , <b>2010</b> , 10, 545-555	2.9	11
95	A Novel Cathode Material with a Concentration-Gradient for High-Energy and Safe Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 485-491	15.6	225
94	Double carbon coating of $\text{LiFePO}_4$ as high rate electrode for rechargeable lithium batteries. <i>Advanced Materials</i> , <b>2010</b> , 22, 4842-5	24	329

93	Nanostructured anode material for high-power battery system in electric vehicles. <i>Advanced Materials</i> , <b>2010</b> , 22, 3052-7	24	338
92	Improved electrochemical properties of BiOF-coated 5V spinel Li[Ni <sub>0.5</sub> Mn <sub>1.5</sub> ]O <sub>4</sub> for rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 2023-2028	8.9	99
91	Evaluation of polymer electrolyte membrane fuel cells by electrochemical impedance spectroscopy under different operation conditions and corrosion. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 5501-5507	8.9	16
90	Spinel lithium manganese oxide synthesized under a pressurized oxygen atmosphere. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8397-8401	6.7	8
89	Polyvinylpyrrolidone-assisted synthesis of microscale C-LiFePO <sub>4</sub> with high tap density as positive electrode materials for lithium batteries. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 1193-1199	6.7	52
88	High-voltage performance of concentration-gradient Li[Ni <sub>0.67</sub> Co <sub>0.15</sub> Mn <sub>0.18</sub> ]O <sub>2</sub> cathode material for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8621-8627	6.7	91
87	Nondestructive Evaluation of Concrete Environment against Corrosion of Reinforcing Bar Using the Magnetic Corrosion Probe. <i>Zairyo To Kankyo/Corrosion Engineering</i> , <b>2010</b> , 59, 75-79	0.5	
86	Role of AlF <sub>3</sub> Coating on LiCoO <sub>2</sub> Particles during Cycling to Cutoff Voltage above 4.5 V. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, A1005	3.9	60
85	Effects of Co doping on Li[Ni <sub>0.5</sub> Co <sub>x</sub> Mn <sub>1.5-x</sub> ]O <sub>4</sub> spinel materials for 5 V lithium secondary batteries via Co-precipitation. <i>Journal of Power Sources</i> , <b>2009</b> , 189, 752-756	8.9	49
84	Effect of protecting metal oxide (Co <sub>3</sub> O <sub>4</sub> ) layer on electrochemical properties of spinel Li <sub>1.1</sub> Mn <sub>1.9</sub> O <sub>4</sub> as a cathode material for lithium battery applications. <i>Journal of Power Sources</i> , <b>2009</b> , 189, 494-498	8.9	30
83	Electrochemical behavior of current collectors for lithium batteries in non-aqueous alkyl carbonate solution and surface analysis by ToF-SIMS. <i>Electrochimica Acta</i> , <b>2009</b> , 55, 288-297	6.7	77
82	High-energy cathode material for long-life and safe lithium batteries. <i>Nature Materials</i> , <b>2009</b> , 8, 320-4	27	1155
81	Improvement of electrochemical and thermal properties of Li[Ni <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> positive electrode materials by multiple metal (Al, Mg) substitution. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 3851-3856	6.7	147
80	Passivation behavior of Type 304 stainless steel in a non-aqueous alkyl carbonate solution containing LiPF <sub>6</sub> salt. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 5804-5812	6.7	25
79	Application of Ni-free high nitrogen stainless steel for bipolar plates of proton exchange membrane fuel cells. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 1127-1133	6.7	31
78	High Electrochemical Li Intercalation in Titanate Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 14034-14039	3.8	15
77	Improvement of High Voltage Cycling Performances of Li[Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> ]O <sub>2</sub> at 55°C by a (NH <sub>4</sub> ) <sub>3</sub> AlF <sub>6</sub> Coating. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, A163		36
76	Dual functioned BiOF-coated Li[Li <sub>0.1</sub> Al <sub>0.05</sub> Mn <sub>1.85</sub> ]O <sub>4</sub> for lithium batteries. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1995		69

75	Nanoporous Structured LiFePO <sub>4</sub> with Spherical Microscale Particles Having High Volumetric Capacity for Lithium Batteries. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, A181		75
74	The Effect of Morphological Properties on the Electrochemical Behavior of High Tap Density C <sub>18</sub> LiFePO <sub>4</sub> Prepared via Coprecipitation. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, A414	3.9	30
73	Improvement of the Electrochemical Properties of Li[Ni <sub>0.5</sub> Mn <sub>0.5</sub> ]O <sub>2</sub> by AlF <sub>3</sub> Coating. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, A705	3.9	40
72	Structural, Electrochemical, and Thermal Aspects of Li[(Ni <sub>0.5</sub> Mn <sub>0.5</sub> )] <sub>1-x</sub> Co <sub>x</sub> O <sub>2</sub> (0.2) for High-Voltage Application of Lithium-Ion Secondary Batteries. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, A374	3.9	31
71	Electrochemical and thermal characterization of AlF <sub>3</sub> -coated Li[Ni <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> ]O <sub>2</sub> cathode in lithium-ion cells. <i>Journal of Power Sources</i> , <b>2008</b> , 179, 347-350	8.9	97
70	High nitrogen stainless steel as bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 815-821	8.9	25
69	Optimization of microwave synthesis of Li[Ni <sub>0.4</sub> Co <sub>0.2</sub> Mn <sub>0.4</sub> ]O <sub>2</sub> as a positive electrode material for lithium batteries. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 3065-3074	6.7	31
68	Particle size effect of Li[Ni <sub>0.5</sub> Mn <sub>0.5</sub> ]O <sub>2</sub> prepared by co-precipitation. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 6033-6037	6.7	57
67	Improvement of structural and electrochemical properties of AlF <sub>3</sub> -coated Li[Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> ]O <sub>2</sub> cathode materials on high voltage region. <i>Journal of Power Sources</i> , <b>2008</b> , 178, 826-831	8.9	132
66	Nanosized TiN/SBR hybrid coating of stainless steel as bipolar plates for polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , <b>2008</b> , 54, 574-581	6.7	21
65	Nanoparticle TiN-coated type 310S stainless steel as bipolar plates for polymer electrolyte membrane fuel cell. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 480-484	5.1	59
64	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> , <b>2008</b> , 53, 4205-4212	6.7	90
63	Structural and Electrochemical Properties of Layered Li[Ni <sub>1-x</sub> Co <sub>x</sub> Mn <sub>x</sub> ]O <sub>2</sub> (x=0.1-0.3) Positive Electrode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A971	3.9	152
62	Functionality of Oxide Coating for Li[Li <sub>0.05</sub> Ni <sub>0.4</sub> Co <sub>0.15</sub> Mn <sub>0.4</sub> ]O <sub>2</sub> as Positive Electrode Materials for Lithium-Ion Secondary Batteries. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 4061-4067	3.8	143
61	Effect of AlF <sub>3</sub> coating amount on high voltage cycling performance of LiCoO <sub>2</sub> . <i>Electrochimica Acta</i> , <b>2007</b> , 53, 1013-1019	6.7	99
60	Co-precipitation synthesis of spherical Li <sub>1.05</sub> M <sub>0.05</sub> Mn <sub>1.9</sub> O <sub>4</sub> (M = Ni, Mg, Al) spinel and its application for lithium secondary battery cathode. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 5201-5206	6.7	44
59	Synthesis and electrochemical properties of spherical spinel Li <sub>1.05</sub> M <sub>0.05</sub> Mn <sub>1.9</sub> O <sub>4</sub> (M=Mg and Al) as a cathode material for lithium-ion batteries by co-precipitation method. <i>Journal of Power Sources</i> , <b>2007</b> , 174, 726-729	8.9	14
58	Improvement of Electrochemical Performances of Li[Ni <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> Cathode Materials by Fluorine Substitution. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A649	3.9	121

57	Structural Transformation of $\text{Li}[\text{Ni}_{0.5-x}\text{Co}_{2x}\text{Mn}_{0.5-x}]\text{O}_2$ ( $2x=0.1$ ) Charged in High-Voltage Range (4.5 V). <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A520	3.9	19
56	Microwave Synthesis of Spherical $\text{Li}[\text{Ni}_{0.4}\text{Co}_{0.2}\text{Mn}_{0.4}]\text{O}_2$ Powders as a Positive Electrode Material for Lithium Batteries. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2727-2729	9.6	34
55	Physical and Electrochemical Properties of $\text{Li}[\text{Ni}_{0.4}\text{Co}_x\text{Mn}_{0.6-x}]\text{O}_2$ ( $x = 0.1$ – $0.4$ ) Electrode Materials Synthesized via Coprecipitation. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A937	3.9	31
54	Improved Electrochemical Cycling Behavior of ZnO-Coated $\text{Li}_{1.05}\text{Al}_{0.1}\text{Mn}_{1.85}\text{O}_{3.95}\text{F}_{0.05}$ Spinel at 55°C. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A1290	3.9	42
53	Microscale Core-Shell Structured $\text{Li}[(\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1})_{0.8}(\text{Ni}_{0.5}\text{Mn}_{0.5})_{0.2}]\text{O}_2$ as Positive Electrode Material for Lithium Batteries. <i>Electrochemical and Solid-State Letters</i> , <b>2006</b> , 9, A171		30
52	Synthesis of Spherical Nano- to Microscale Core-Shell Particles $\text{Li}[(\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1})_{1-x}(\text{Ni}_{0.5}\text{Mn}_{0.5})_x]\text{O}_2$ and Their Applications to Lithium Batteries. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 5159-5163	9.6	103
51	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> , <b>2006</b> , 18, 1658-1666	9.6	73
50	Novel core-shell-structured $\text{Li}[(\text{Ni}_{0.8}\text{Co}_{0.2})_{0.8}(\text{Ni}_{0.5}\text{Mn}_{0.5})_{0.2}]\text{O}_2$ via coprecipitation as positive electrode material for lithium secondary batteries. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 6810-5	3.4	88
49	Ultrasonic spray pyrolysis of nano crystalline spinel $\text{LiMn}_2\text{O}_4$ showing good cycling performance in the 3V range. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 4089-4095	6.7	25
48	Significant improvement of high voltage cycling behavior $\text{AlF}_3$ -coated $\text{LiCoO}_2$ cathode. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 821-826	5.1	226
47	Synthesis of spherical $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ as positive electrode material for lithium-ion battery. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 2447-2453	6.7	87
46	Improvement of cycling performance of $\text{Li}_{1.1}\text{Mn}_{1.9}\text{O}_4$ at 60°C by NiO addition for Li-ion secondary batteries. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 5912-5919	6.7	33
45	Hydrothermal phase formation of orthorhombic $\text{LiMnO}_2$ and its derivatives as lithium intercalation compounds. <i>Solid State Ionics</i> , <b>2006</b> , 177, 733-739	3.3	11
44	Improvement of High-Voltage Cycling Behavior of Surface-Modified $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ Cathodes by Fluorine Substitution for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A1707	3.9	129
43	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> , <b>2005</b> , 17, 2427-2435	9.6	79
42	Role of Alumina Coating on $\text{LiNi}_{0.5}\text{Co}_{0.5}\text{Mn}_{0.5}\text{O}_2$ Particles as Positive Electrode Material for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 3695-3704	9.6	440
41	Synthesis of Nanostructured $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ via a Modified Carbonate Process. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6-8	9.6	88
40	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> , <b>2005</b> , 127, 13411-8	16.4	363

39	Electrochemical evaluation of mixed oxide electrode for Li-ion secondary batteries: $\text{Li}_{1.1}\text{Mn}_{1.9}\text{O}_4$ and $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ . <i>Journal of Power Sources</i> , <b>2005</b> , 146, 222-225	8.9	58
38	Effect of fluorine on $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2\text{F}_z$ as lithium intercalation material. <i>Journal of Power Sources</i> , <b>2005</b> , 146, 602-605	8.9	55
37	Improvement of structural integrity and battery performance of $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ by Al and Ti doping. <i>Journal of Power Sources</i> , <b>2005</b> , 146, 645-649	8.9	45
36	Hydrothermal synthesis of layered $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ as positive electrode material for lithium secondary battery. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 4800-4806	6.7	81
35	Effects of synthesis condition on $\text{LiNi}_{1/2}\text{Mn}_{3/2}\text{O}_4$ cathode material for prepared by ultrasonic spray pyrolysis method. <i>Solid State Ionics</i> , <b>2005</b> , 176, 481-486	3.3	50
34	Synthesis and electrochemical properties of layered $\text{LiNi}_{1/2}\text{Mn}_{1/2}\text{O}_2$ prepared by coprecipitation. <i>Journal of Applied Electrochemistry</i> , <b>2005</b> , 35, 151-156	2.6	16
33	$\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Showing Reversible Phase Transition on 3 V Region. <i>Electrochemical and Solid-State Letters</i> , <b>2005</b> , 8, A163		37
32	Phase Transitions in $\text{Li}[\text{Ni}_{0.5}\text{Mn}_{1.5}]\text{O}_4$ during Cycling at 5 V. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A216		104
31	Effect of Ti Substitution for Mn on the Structure of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{Ti}_x\text{O}_4$ and Their Electrochemical Properties as Lithium Insertion Material. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A1911	3.9	103
30	Mo <sup>6+</sup> -Doped $\text{Li}[\text{Ni}_{(0.5+x)}\text{Mn}_{(1.5-x)}]\text{O}_4$ Spinel Materials for 5 V Lithium Secondary Batteries Prepared by Ultrasonic Spray Pyrolysis. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A451		28
29	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> , <b>2004</b> , 49, 219-227	6.7	213
28	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> , <b>2004</b> , 50, 939-948	6.7	461
27	Effect of excess lithium on $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ and its electrochemistry as lithium insertion material. <i>Solid State Ionics</i> , <b>2004</b> , 170, 139-144	3.3	30
26	Emulsion drying synthesis of olivine $\text{LiFePO}_4/\text{C}$ composite and its electrochemical properties as lithium intercalation material. <i>Electrochimica Acta</i> , <b>2004</b> , 49, 4213-4222	6.7	170
25	Synthesis and Electrochemical Properties of $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{(1/3-x)}\text{Mg}_x]\text{O}_2\text{F}_y$ via Coprecipitation. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A477		87
24	Comparative Study of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ and $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathodes Having Two Crystallographic Structures: $\text{Fd}3m$ and $\text{P4332}$ . <i>Chemistry of Materials</i> , <b>2004</b> , 16, 906-914	9.6	603
23	Hydrothermal Synthesis of Layered $\text{Li}[\text{Ni}_{0.5}\text{Mn}_{0.5}]\text{O}_2$ as Lithium Intercalation Material. <i>Chemistry Letters</i> , <b>2004</b> , 33, 818-819	1.7	10
22	Synthesis of $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2\text{F}_z$ via Coprecipitation. <i>Chemistry Letters</i> , <b>2004</b> , 33, 1388-1389	1.7	21

21	Effects of Molybdenum Doping on the Layered $\text{Li}[\text{Ni}_{0.5+x}\text{Mn}_{0.5-x}\text{Mox}]_2\text{O}_7$ Cathode Materials for Lithium Secondary Batteries. <i>Chemistry Letters</i> , <b>2004</b> , 33, 2-3	1.7	18
20	Emulsion Drying Preparation of $\text{LiFePO}_4/\text{C}$ Composite and Its Enhanced High-rate Performance at $50\text{ }^\circ\text{C}$ . <i>Chemistry Letters</i> , <b>2003</b> , 32, 566-567	1.7	22
19	Preparation of $\text{LiFePO}_4$ as Lithium Intercalation Compound by Emulsion Drying Method. <i>Electrochemistry</i> , <b>2003</b> , 71, 177-179	1.2	3
18	Structural Investigation of Layered $\text{Li}[\text{Mn}_x\text{Cr}_{1-x}]_2\text{O}_7$ by XANES and In Situ XRD Measurements. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A1560	3.9	31
17	Preparation of layered $\text{LiMn}_x\text{Cr}_{1-x}\text{O}_2$ solid solution by emulsion drying method as lithium intercalation compounds. <i>Electrochemistry Communications</i> , <b>2002</b> , 4, 397-401	5.1	22
16	Synthetic optimization of orthorhombic $\text{LiMnO}_2$ by emulsion-drying method and cycling behavior as cathode material for Li-ion battery. <i>Solid State Ionics</i> , <b>2002</b> , 150, 199-205	3.3	25
15	Neutron powder diffraction studies of $\text{LiMn}_2\text{Al}_y\text{O}_4$ synthesized by the emulsion drying method. <i>Solid State Ionics</i> , <b>2002</b> , 149, 47-52	3.3	47
14	Hydrothermal synthesis of high crystalline orthorhombic $\text{LiMnO}_2$ as a cathode material for Li-ion batteries. <i>Solid State Ionics</i> , <b>2002</b> , 152-153, 311-318	3.3	36
13	Nano-crystalline $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ synthesized by emulsion drying method. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 2543-2549	6.7	152
12	Hydrothermal synthesis and electrochemical behavior of orthorhombic $\text{LiMnO}_2$ . <i>Electrochimica Acta</i> , <b>2002</b> , 47, 3287-3295	6.7	68
11	Hydrothermal Synthesis of Orthorhombic $\text{LiCo}_x\text{Mn}_{1-x}\text{O}_2$ and Their Structural Changes during Cycling. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, A1349	3.9	36
10	Cobalt Doped Orthorhombic $\text{LiMnO}_2$ as Cathode Materials for Lithium-Ion Batteries. <i>Chemistry Letters</i> , <b>2001</b> , 30, 1114-1115	1.7	3
9	Orthorhombic $\text{LiMnO}_2$ as a High Capacity Cathode for Lithium-Ion Battery Synthesized by Hydrothermal Route at $170\text{ }^\circ\text{C}$ . <i>Chemistry Letters</i> , <b>2001</b> , 30, 80-81	1.7	17
8	Synthesis of Orthorhombic $\text{LiMnO}_2$ as a High Capacity Cathode for Li-Ion Battery by Emulsion Drying Method. <i>Chemistry Letters</i> , <b>2001</b> , 30, 574-575	1.7	9
7	Lattice parameter as a measure of electrochemical properties of $\text{LiMn}_2\text{O}_4$ . <i>Journal of Power Sources</i> , <b>2001</b> , 97-98, 454-457	8.9	25
6	Effects of Al doping on the microstructure of $\text{LiCoO}_2$ cathode materials. <i>Solid State Ionics</i> , <b>2001</b> , 139, 47-56	3.3	187
5	Enhanced Structural Stability and Cyclability of Al-Doped $\text{LiMn}_2\text{O}_4$ Spinel Synthesized by the Emulsion Drying Method. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, A482	3.9	171
4	Capacity fading of $\text{LiMn}_2\text{O}_4$ electrode synthesized by the emulsion drying method. <i>Journal of Power Sources</i> , <b>2000</b> , 90, 103-108	8.9	47



3	Preparation and electrochemical characterization of LiCoO <sub>2</sub> by the emulsion drying method. <i>Journal of Applied Electrochemistry</i> , <b>2000</b> , 30, 1081-1085	2.6	37
2	Preparation and characterization of LiMn <sub>2</sub> O <sub>4</sub> powders by the emulsion drying method. <i>Journal of Power Sources</i> , <b>1999</b> , 84, 32-38	8.9	36
1	Hysteresis-Suppressed Reversible Oxygen-Redox Cathodes for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2103939	21.8	5