

# Chong S Yoon

## List of Publications by Citations

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270  
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19,112  
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#	Paper	IF	Citations
253	Comparison of the structural and electrochemical properties of layered Li[NixCoyMnz]O <sub>2</sub> (x+y+z=1/3, 0.5, 0.6, 0.7, 0.8 and 0.85) cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 233, 121-130	8.9	1191
252	Nanostructured high-energy cathode materials for advanced lithium batteries. <i>Nature Materials</i> , <b>2012</b> , 11, 942-7	27	781
251	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
250	Capacity Fading of Ni-Rich Li[NixCoyMnz]O <sub>2</sub> (0.6 ≤ x ≤ 0.95) Cathodes for High-Energy-Density Lithium-Ion Batteries: Bulk or Surface Degradation?. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1155-1163	9.6	620
249	Comparative Study of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> - $\delta$ and LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathodes Having Two Crystallographic Structures: Fd3 m and P4332. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 906-914	9.6	603
248	The role of AlF <sub>3</sub> coatings in improving electrochemical cycling of Li-enriched nickel-manganese oxide electrodes for Li-ion batteries. <i>Advanced Materials</i> , <b>2012</b> , 24, 1192-6	24	558
247	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
246	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
245	High-Performance Carbon-LiMnPO <sub>4</sub> Nanocomposite Cathode for Lithium Batteries. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3260-3265	15.6	277
244	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
243	Pushing the limit of layered transition metal oxide cathodes for high-energy density rechargeable Li ion batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1271-1279	35.4	225
242	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
241	High-energy-density lithium-ion battery using a carbon-nanotube $\beta$ i 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
240	Critical Role of pH Evolution of Electrolyte in the Reaction Mechanism for Rechargeable Zinc Batteries. <i>ChemSusChem</i> , <b>2016</b> , 9, 2948-2956	8.3	218
239	Electrochemically-induced reversible transition from the tunneled to layered polymorphs of manganese dioxide. <i>Scientific Reports</i> , <b>2014</b> , 4, 6066	4.9	215
238	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
237	Improvement of long-term cycling performance of Li[Ni <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> ]O <sub>2</sub> by AlF <sub>3</sub> coating. <i>Journal of Power Sources</i> , <b>2013</b> , 234, 201-207	8.9	198

236	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
235	Improved Cycling Stability of Li[Ni <sub>0.90</sub> Co <sub>0.05</sub> Mn <sub>0.05</sub> ]O <sub>2</sub> Through Microstructure Modification by Boron Doping for Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801202	21.8	194
234	High electrochemical performances of microsphere C-TiO <sub>2</sub> anode for sodium-ion battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 11295-301	9.5	187
233	Synthesis and structural characterization of layered Li[Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> ]O <sub>2</sub> cathode materials by ultrasonic spray pyrolysis method. <i>Electrochimica Acta</i> , <b>2004</b> , 49, 557-563	6.7	187
232	Significant Improvement of Electrochemical Performance of AlF <sub>3</sub> -Coated Li[Ni <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> Cathode Materials. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A1005	3.9	175
231	Degradation Mechanism of Ni-Enriched NCA Cathode for Lithium Batteries: Are Microcracks Really Critical?. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1394-1400	20.1	161
230	Synthesis of Nanowire and Hollow LiFePO <sub>4</sub> Cathodes for High-Performance Lithium Batteries. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4560-4564	9.6	161
229	Nanostructured TiO <sub>2</sub> and Its Application in Lithium-Ion Storage. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 3231-3241	15.6	146
228	AlF <sub>3</sub> -Coating to Improve High Voltage Cycling Performance of Li[Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> ]O <sub>2</sub> Cathode Materials for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A168	3.9	145
227	High-Energy Ni-Rich Li[Ni <sub>x</sub> Co <sub>y</sub> Mn <sub>1-x-y</sub> ]O <sub>2</sub> Cathodes via Compositional Partitioning for Next-Generation Electric Vehicles. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 10436-10445	9.6	140
226	Extracting maximum capacity from Ni-rich Li[Ni <sub>0.95</sub> Co <sub>0.025</sub> Mn <sub>0.025</sub> ]O <sub>2</sub> cathodes for high-energy-density lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4126-4132	13	139
225	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2995-3001	20.1	138
224	Improvement of High-Voltage Cycling Behavior of Surface-Modified Li[Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> ]O <sub>2</sub> Cathodes by Fluorine Substitution for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A1707	3.9	129
223	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
222	Quaternary Layered Ni-Rich NCMA Cathode for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 576-582	20.1	117
221	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
220	Microstructure-Controlled Ni-Rich Cathode Material by Microscale Compositional Partition for Next-Generation Electric Vehicles. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803902	21.8	114
219	Cathode Material with Nanorod Structure: An Application for Advanced High-Energy and Safe Lithium Batteries. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2109-2115	9.6	112

218	Surface structural change of ZnO-coated LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> spinel as 5 V cathode materials at elevated temperatures. <i>Electrochimica Acta</i> , <b>2003</b> , 48, 503-506	6.7	112
217	Heuristic solution for achieving long-term cycle stability for Ni-rich layered cathodes at full depth of discharge. <i>Nature Energy</i> , <b>2020</b> , 5, 860-869	62.3	109
216	Self-Passivation of a LiNiO <sub>2</sub> Cathode for a Lithium-Ion Battery through Zr Doping. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1634-1639	20.1	108
215	Mesoporous Anatase TiO <sub>2</sub> with High Surface Area and Controllable Pore Size by F <sup>-</sup> Ion Doping: Applications for High-Power Li-Ion Battery Anode. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 21258-21263	23.8	108
214	High-Capacity Concentration Gradient Li[Ni <sub>0.865</sub> Co <sub>0.120</sub> Al <sub>0.015</sub> ]O <sub>2</sub> Cathode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703612	21.8	106
213	Advanced Concentration Gradient Cathode Material with Two-Slope for High-Energy and Safe Lithium Batteries. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4673-4680	15.6	104
212	Surface-stabilized amorphous germanium nanoparticles for lithium-storage material. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20719-23	3.4	104
211	Phase Transitions in Li <sub>1-x</sub> Ni <sub>0.5x</sub> Mn <sub>1.5x</sub> O <sub>4</sub> during Cycling at 5 V. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A216		104
210	Suppressing detrimental phase transitions via tungsten doping of LiNiO <sub>2</sub> cathode for next-generation lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18580-18588	13	103
209	Effect of Ti Substitution for Mn on the Structure of LiNi <sub>0.5</sub> Mn <sub>1.5-x</sub> Ti <sub>x</sub> O <sub>4</sub> and Their Electrochemical Properties as Lithium Insertion Material. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A1911	3.9	103
208	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
207	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
206	A transmission electron microscopy study of the electrochemical process of lithium-oxygen cells. <i>Nano Letters</i> , <b>2012</b> , 12, 4333-5	11.5	102
205	High-Energy Density Core-Shell Structured Li[Ni <sub>0.95</sub> Co <sub>0.025</sub> Mn <sub>0.025</sub> ]O <sub>2</sub> Cathode for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5048-5052	9.6	98
204	Review High-Capacity Li[Ni <sub>1-x</sub> Co <sub>x/2</sub> Mn <sub>x/2</sub> ]O <sub>2</sub> (x= 0.1, 0.05, 0) Cathodes for Next-Generation Li-Ion Battery. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2483-A2489	3.9	97
203	Cation Ordering of Zr-Doped LiNiO <sub>2</sub> Cathode for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1808-1814	9.6	97
202	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
201	Optical and field emission properties of thin single-crystalline GaN nanowires. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 11095-9	3.4	94

200	Effect of AlF <sub>3</sub> Coating on Thermal Behavior of Chemically Delithiated Li <sub>0.35</sub> [Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> ]O <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 4710-4718	3.8	93
199	A method of increasing the energy density of layered Ni-rich Li[Ni <sub>1-x</sub> CoxMnx]O <sub>2</sub> cathodes (x = 0.05, 0.1, 0.2). <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2694-2701	13	88
198	Synthesis of Nanostructured Li[Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> ]O <sub>2</sub> via a Modified Carbonate Process. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6-8	9.6	88
197	Novel core-shell-structured Li[(Ni <sub>0.8</sub> Co <sub>0.2</sub> ) <sub>0.8</sub> (Ni <sub>0.5</sub> Mn <sub>0.5</sub> ) <sub>0.2</sub> ]O <sub>2</sub> 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
196	Enhanced electrochemical performance of carbon@Mn <sub>1-x</sub> FexPO <sub>4</sub> nanocomposite cathode for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 6924-6928	8.9	86
195	A comprehensive study of the role of transition metals in O <sub>3</sub> -type layered Na[NixCoyMnz]O <sub>2</sub> (x = 1/3, 0.5, 0.6, and 0.8) cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17952-17959 <sup>83</sup>	12	83
194	Toward High-Safety Potassium Sulfur Batteries Using a Potassium Polysulfide Catholyte and Metal-Free Anode. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 540-541	20.1	82
193	Customizing a Li-metal battery that survives practical operating conditions for electric vehicle applications. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2174-2184	35.4	81
192	Degradation Mechanism of Highly Ni-Rich Li[NiCoMn]O Cathodes with > 0.9. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 30936-30942	9.5	80
191	Ni-Rich Layered Cathode Materials with Electrochemo-Mechanically Compliant Microstructures for All-Solid-State Li Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903360	21.8	80
190	A highly stabilized Ni-rich NCA cathode for high-energy lithium-ion batteries. <i>Materials Today</i> , <b>2020</b> , 36, 73-82	21.8	77
189	Resolving the degradation pathways of the O <sub>3</sub> -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
188	Compositionally and structurally redesigned high-energy Ni-rich layered cathode for next-generation lithium batteries. <i>Materials Today</i> , <b>2019</b> , 23, 26-36	21.8	76
187	Characterization of Sputter-Deposited LiCoO Thin Film Grown on NASICON-type Electrolyte for Application in All-Solid-State Rechargeable Lithium Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16063-16070	9.5	75
186	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
185	Low-temperature sintering and microwave dielectric properties of Ba <sub>5</sub> Nb <sub>4</sub> O <sub>15</sub> Ba <sub>2</sub> Nb <sub>2</sub> O <sub>6</sub> mixtures for LTCC applications. <i>Journal of the European Ceramic Society</i> , <b>2003</b> , 23, 2597-2601	6	73
184	Li[Ni <sub>0.9</sub> Co <sub>0.09</sub> W <sub>0.01</sub> ]O <sub>2</sub> : A New Type of Layered Oxide Cathode with High Cycling Stability. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902698	21.8	66
183	High Temperature Performance of Surface-Treated Li <sub>[sub 1.1]</sub> (Ni <sub>[sub 0.15]</sub> Co <sub>[sub 0.1]</sub> Mn <sub>[sub 0.55]</sub> )O <sub>[sub 1.95]</sub> Layered Oxide. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A1035	3.9	66

182	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
181	Effect of sulfur and nickel doping on morphology and electrochemical performance of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4-x</sub> S <sub>x</sub> spinel material in 3-V region. <i>Journal of Power Sources</i> , <b>2006</b> , 161, 19-26	8.9	62
180	Tungsten doping for stabilization of Li[Ni <sub>0.90</sub> Co <sub>0.05</sub> Mn <sub>0.05</sub> ]O <sub>2</sub> cathode for Li-ion battery at high voltage. <i>Journal of Power Sources</i> , <b>2019</b> , 442, 227242	8.9	60
179	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
178	Cobalt-Free High-Capacity Ni-Rich Layered Li[Ni <sub>0.9</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> Cathode. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903179	21.8	60
177	Ordered mesoporous carbon electrodes for Li-O <sub>2</sub> batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 13426-31	9.5	59
176	New Class of Ni-Rich Cathode Materials Li[Ni <sub>x</sub> Co <sub>y</sub> B <sub>1-x-y</sub> ]O <sub>2</sub> for Next Lithium Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000495	21.8	57
175	Degradation mechanism of spinel LiAl <sub>0.2</sub> Mn <sub>1.8</sub> O <sub>4</sub> cathode materials on high temperature cycling. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 2519-2522		57
174	Microstructural Degradation of Ni-Rich Li[Ni Co Mn ]O Cathodes During Accelerated Calendar Aging. <i>Small</i> , <b>2018</b> , 14, e1803179	11	57
173	Nanoconfinement of low-conductivity products in rechargeable sodium-air batteries. <i>Nano Energy</i> , <b>2015</b> , 12, 123-130	17.1	56
172	Low-Temperature Synthesis of Li <sub>x</sub> Mn <sub>0.67</sub> Ni <sub>0.33</sub> O <sub>2</sub> (0.2 < x < 1). <i>Advanced Materials</i> , <b>2005</b> , 17, 2834-2837	24	55
171	Capacity Fading Mechanisms in Ni-Rich Single-Crystal NCM Cathodes. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2726-2734	23.4	53
170	Influence of temperature on lithium-oxygen battery behavior. <i>Nano Letters</i> , <b>2013</b> , 13, 2971-5	11.5	52
169	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
168	Variation of Electronic Conductivity within Secondary Particles Revealing a Capacity-Fading Mechanism of Layered Ni-Rich Cathode. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 3002-3007	20.1	50
167	Stabilization of Lithium-Metal Batteries Based on the in Situ Formation of a Stable Solid Electrolyte Interphase Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 17985-17993	9.5	49
166	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
165	Capacity Degradation Mechanism and Cycling Stability Enhancement of AlF-Coated Nanorod Gradient Na[NiCoMn]O Cathode for Sodium-Ion Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 12912-12922	16.7	47

164	Microstructure Evolution of Concentration Gradient Li[Ni <sub>0.75</sub> Co <sub>0.10</sub> Mn <sub>0.15</sub> ]O <sub>2</sub> Cathode for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802090	15.6	47
163	Synthesis of ultra-thin polypyrrole nanosheets for chemical sensor applications. <i>Polymer</i> , <b>2011</b> , 52, 652-657	3.5	44
162	Structural Characterization of Li[Li <sub>0.1</sub> Ni <sub>0.35</sub> Mn <sub>0.55</sub> ]O <sub>2</sub> Cathode Material for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A538	3.9	42
161	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
160	Formation of gold nanoparticles embedded in a polyimide film for nanofloating gate memory. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 123118	3.4	37
159	LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Showing Reversible Phase Transition on 3 V Region. <i>Electrochemical and Solid-State Letters</i> , <b>2005</b> , 8, A163		37
158	A Strategy for the Formation of Gold-Palladium Supra-Nanoparticles from Gold Nanoparticles of Various Shapes and Their Application to High-Performance H <sub>2</sub> O <sub>2</sub> Sensing. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 26164-26170	3.8	36
157	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
156	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
155	Nonvolatile memory cell effect in multilayered Ni <sub>1-x</sub> Fe <sub>x</sub> self-assembled nanoparticle arrays in polyimide. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 022112	3.4	34
154	Effect of Fluorine on the Electrochemical Properties of Layered Li[Ni <sub>0.43</sub> Co <sub>0.22</sub> Mn <sub>0.35</sub> ]O <sub>2</sub> Cathode Materials via a Carbonate Process. <i>Electrochemical and Solid-State Letters</i> , <b>2005</b> , 8, A559		34
153	Microstrain Alleviation in High-Energy Ni-Rich NCMA Cathode for Long Battery Life. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 216-223	20.1	33
152	Cation ordered Ni-rich layered cathode for ultra-long battery life. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 1573-1583	35.4	32
151	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
150	Synthesis of nano-crystalline LiFeO <sub>2</sub> material with advanced battery performance. <i>Electrochemistry Communications</i> , <b>2002</b> , 4, 727-731	5.1	31
149	New Insights Related to Rechargeable Lithium Batteries: Li Metal Anodes, Ni Rich LiNi <sub>x</sub> Co <sub>y</sub> Mn <sub>z</sub> O <sub>2</sub> Cathodes and Beyond Them. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A5265-A5274	3.9	31
148	Enhanced ferromagnetism in H <sub>2</sub> O <sub>2</sub> -treated p-(Zn <sub>0.93</sub> Mn <sub>0.07</sub> )O layer. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 042115	3.4	29
147	Structural, optical, and magnetic properties of As-doped (Zn <sub>0.93</sub> Mn <sub>0.07</sub> )O thin films. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 022120	3.4	29

146	High-Energy W-Doped Li[Ni <sub>0.95</sub> Co <sub>0.04</sub> Al <sub>0.01</sub> ]O <sub>2</sub> Cathodes for Next-Generation Electric Vehicles. <i>Energy Storage Materials</i> , <b>2020</b> , 33, 399-407	19.4	29
145	Surface-plasmon resonance of Ag nanoparticles in polyimide. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 084309.5	28	
144	Transition metal-doped Ni-rich layered cathode materials for durable Li-ion batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 6552	17.4	28
143	Synthesis and structural changes of Li <sub>x</sub> FeyO <sub>z</sub> material prepared by a solid-state method. <i>Journal of Power Sources</i> , <b>2004</b> , 134, 88-94	8.9	27
142	Improved Performances of Li[Ni <sub>0.65</sub> Co <sub>0.08</sub> Mn <sub>0.27</sub> ]O <sub>2</sub> Cathode Material with Full Concentration Gradient for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A3059-A3063	3.9	26
141	Effect of Mn Content in Surface on the Electrochemical Properties of Core-Shell Structured Cathode Materials. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 159, A1-A5	3.9	26
140	Microstructure of femtosecond laser-induced grating in amorphous silicon. <i>Optics Express</i> , <b>2005</b> , 13, 6445-53	26	
139	The effect of boron on the wear behavior of iron-based hardfacing alloys for nuclear power plants valves. <i>Journal of Nuclear Materials</i> , <b>2006</b> , 352, 90-96	3.3	26
138	Structural change and capacity loss mechanism in orthorhombic Li/LiFeO <sub>2</sub> system during cycling. <i>Electrochemistry Communications</i> , <b>2003</b> , 5, 549-554	5.1	26
137	Ultrasonic spray pyrolysis of nano crystalline spinel LiMn <sub>2</sub> O <sub>4</sub> showing good cycling performance in the 3V range. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 4089-4095	6.7	25
136	Deposition temperature dependence of titanium oxide thin films grown by remote-plasma atomic layer deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210, 276-284	1.6	24
135	Improvement of Electrochemical Properties of Lithium-Oxygen Batteries Using a Silver Electrode. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 15036-15040	3.8	22
134	Effect of outer layer thickness on full concentration gradient layered cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 663-669	8.9	22
133	Self-Assembly of Silver Nanoparticles Synthesized by using a Liquid-Crystalline Phospholipid Membrane. <i>Advanced Materials</i> , <b>2008</b> , 20, 3404-3409	24	21
132	Improved electrochemical performance of Li-doped natural graphite anode for lithium secondary batteries. <i>Journal of Power Sources</i> , <b>2005</b> , 139, 230-234	8.9	21
131	Microstructure Engineered Ni-Rich Layered Cathode for Electric Vehicle Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100884	21.8	21
130	Periodically ordered inverse opal TiO <sub>2</sub> /polyaniline core/shell design for electrochemical energy storage applications. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 694, 111-118	5.7	20
129	The catalytic effect of Pt nanoparticles supported on silicon oxide nanowire. <i>Nanotechnology</i> , <b>2009</b> , 20, 235306	3.4	19



128	Amorphous Silicon Dioxide Nanowire Array Synthesized via Carbonization of Polyimide Thin Film. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 4463-4468	3.8	19
127	Structural Transformation of Li[Ni <sub>0.5</sub> Co <sub>2x</sub> Mn <sub>0.5</sub> ]O <sub>2</sub> (2x0.1) Charged in High-Voltage Range (4.5 V). <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A520	3.9	19
126	Organic single-crystal surface-induced polymerization of conducting polypyrroles. <i>Langmuir</i> , <b>2009</b> , 25, 11420-4	4	18
125	Fe-Fe <sub>3</sub> O <sub>4</sub> Composite Electrode for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, A325-A329	3.9	18
124	Arbitrary surface structuring of amorphous silicon films based on femtosecond-laser-induced crystallization. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 151907	3.4	18
123	Monolayer CoPt magnetic nanoparticle array using multiple thin film depositions. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 023117	3.4	18
122	Electrochemical properties and structural characterization of layered Li[Ni <sub>0.5</sub> Mn <sub>0.5</sub> ]O <sub>2</sub> cathode materials. <i>Electrochimica Acta</i> , <b>2003</b> , 48, 2589-2592	6.7	18
121	Nano-compacted Li <sub>2</sub> S/Graphene Composite Cathode for High-Energy Lithium Sulfur Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2787-2795	20.1	17
120	Phase transitions and magnetocaloric effect of Ni <sub>1.7</sub> Co <sub>0.3</sub> Mn <sub>1+x</sub> Al <sub>1-x</sub> Heusler alloys. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 557, 265-269	5.7	17
119	Dependence of ferromagnetic properties on conductivity for As-doped p-type (Zn <sub>0.93</sub> Mn <sub>0.07</sub> )O layers. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 022113	3.4	17
118	Electrochemical albumin sensing based on silicon nanowires modified by gold nanoparticles. <i>Applied Surface Science</i> , <b>2011</b> , 257, 4650-4654	6.7	16
117	Characterization of Nanoparticles Fabricated by Oxidation of Ni <sub>80</sub> Fe <sub>20</sub> and Co <sub>80</sub> Fe <sub>20</sub> Thin Films during Imidization. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 18179-18184	3.4	15
116	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
115	Room-temperature magnetocaloric effect of Ni <sub>1-x</sub> Co <sub>x</sub> MnAl Heusler alloys. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 616, 66-70	5.7	14
114	Reversible size-tuning of self-assembled silver nanoparticles in phospholipid membranes via humidity control. <i>Small</i> , <b>2009</b> , 5, 1311-7	11	14
113	Effect of manganese on the cavitation erosion resistance of iron-chromium-carbon-silicon alloys for replacing cobalt-base Stellite. <i>Journal of Nuclear Materials</i> , <b>2006</b> , 352, 85-89	3.3	14
112	Synthesis of low thermal expansion ceramics based on CaZr <sub>4</sub> (PO <sub>4</sub> ) <sub>6</sub> Li <sub>2</sub> O system. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2001</b> , 79, 6-10	3.1	14
111	Enhanced cycling stability of Sn-doped Li[Ni <sub>0.90</sub> Co <sub>0.05</sub> Mn <sub>0.05</sub> ]O <sub>2</sub> via optimization of particle shape and orientation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126887	14.7	14

110	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
109	Ultrafine-grained Ni-rich layered cathode for advanced Li-ion batteries. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 6616-6626	35.4	13
108	Magnetocaloric refrigerant with wide operating temperature range based on $Mn_{5-x}Ge_3(Co,Fe)_x$ composite. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 644, 464-469	5.7	12
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106	Enhanced Curie temperature of $InMnP:Zn \sim 300K$ . <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1736-1738	3.4	12
105	Cycling behavior of selenium-doped $LiMn_2O_4$ spinel cathode material at 3 V for lithium secondary batteries. <i>Journal of Power Sources</i> , <b>2002</b> , 109, 234-238	8.9	12
104	Magnetocaloric effect of compositionally partitioned $Mn_{5-x}Ge_3Ni_x$ alloys produced by solid state sintering. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 681, 541-546	5.7	12
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100	The effects of Mn and B on the cavitation erosion resistance of austenitic Fe-base hardfacing alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 477, 204-207	5.3	11
99	Spatially periodic magnetic structure produced by femtosecond laser-interference crystallization of amorphous $Co_2MnSi$ thin film. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08G311	2.5	11
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95	Structure and magnetic properties of low-temperature annealed Ni-Mn-Al alloys. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17B102	2.5	10
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83	Interaction of a solid supported liquid-crystalline phospholipid membrane with physical vapor deposited metal atoms. <i>Chemical Communications</i> , <b>2010</b> , 46, 9238-40	5.8	8
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81	Surface plasmon resonance tuning of silver nanoparticle array produced by nanosphere lithography through ion etching and thermal annealing. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 3118-3123		8
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72	Fabrication of CoPt nanoparticles with high coercivity on a polymer film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 301, 419-424	5.1	7
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44	Hierarchical nanostructure generated by decorating SiO(x) nanowires with CoPt nanoparticles. <i>Nanotechnology</i> , <b>2008</b> , 19, 465601	3.4	3
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29	Microstructural Degradation: Microstructural Degradation of Ni-Rich Li[Ni <sub>x</sub> Co <sub>y</sub> Mn <sub>1-x-y</sub> ]O <sub>2</sub> Cathodes During Accelerated Calendar Aging (Small 45/2018). <i>Small</i> , <b>2018</b> , 14, 1870207	11	2
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27	Lithium-Ion Batteries: Compositionally Graded Cathode Material with Long-Term Cycling Stability for Electric Vehicles Application (Adv. Energy Mater. 22/2016). <i>Advanced Energy Materials</i> , <b>2016</b> , 6,	21.8	1
26	Stabilization of solid-supported phospholipid multilayer against water by gramicidin addition. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 3035-40	3.4	1
25	Enhanced ferromagnetism by preventing antiferromagnetic MnO <sub>2</sub> in InP:Be/Mn/InP:Be triple layers fabricated using molecular beam epitaxy. <i>Current Applied Physics</i> , <b>2014</b> , 14, 558-562	2.6	1
24	Deposition of metal nanoparticles on phospholipid multilayer membranes modified by gramicidin. <i>Langmuir</i> , <b>2013</b> , 29, 13251-7	4	1
23	Non-Enzymatic Sensing of Hydrogen Peroxide Using Directly Deposited Au Nanoparticles on Solid-Supported Phospholipid Film. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, B753-B757	3.9	1
22	Formation of the ferromagnetic semiconductor InMnP:Zn through low-temperature annealing by using Mn/InP:Zn bilayer. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 61, 1065-1069	0.6	1
21	Effect of in-situ application of ultrasonic waves during formation of silver nanoparticles embedded in phospholipid membrane. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 144702	2.5	1

20	Hierarchical Nanostructure Produced by Growing Carbon Nanotubes on Silicon Oxide Nanowires. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, K67		1
19	High-frequency electromagnetic properties of soft magnetic metal/polyimide hybrid thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e893-e895	2.8	1
18	Fabrication of metallic nanoparticle mono-layer made from selective reaction of Ni <sub>100</sub> Fe <sub>x</sub> thin films with polyamic acid during its imidization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 284-285, 350-354	5.1	1
17	Synthesis and Electrochemical Characteristics of Li <sub>0.7</sub> [Ni <sub>1/6</sub> Mn <sub>5/6</sub> ] <sub>2</sub> O <sub>2</sub> Cathode Materials. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, A1250	3.9	1
16	Ultra-stable cycling of multi-doped (Zr,B) Li[Ni <sub>0.885</sub> Co <sub>0.100</sub> Al <sub>0.015</sub> ] <sub>2</sub> O <sub>2</sub> cathode. <i>Journal of Power Sources</i> , <b>2021</b> , 513, 230548	8.9	1
15	Mn <sub>5</sub> Fe <sub>3</sub> Bi <sub>3</sub> for active magnetic regenerative refrigeration at room temperature. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 530, 167952	2.8	0
14	Unusual flow behavior of Fe-based soft magnetic amorphous ribbons under high temperature tensile loading. <i>Current Applied Physics</i> , <b>2018</b> , 18, 411-416	2.6	
13	Systematic and consistent ferromagnetism in InMnP:Zn bilayers for various Mn concentrations and annealing temperatures. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 63, 2158-2164	0.6	
12	Coarsening of Au nanoparticles embedded in solid-supported lipid membrane at 80°C under different humidity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 409, 138-142	5.1	
11	Coalescence and polygonization of Au nanoparticles embedded in liquid-crystalline lipid membrane. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 6150-2	1.3	
10	Fabrication of Nanocrystalline Silicon Gratings Embedded within a Silicon Nitride Matrix by Femtosecond Laser-Induced Crystallization. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 015502	1.4	
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8	Hierarchical Nanostructure Produced by Growing Carbon Nanotubes on Silicon Oxide Nanowires. <i>ECS Transactions</i> , <b>2009</b> , 25, 991-996	1	
7	Synthesis of L <sub>10</sub> (FePt) <sub>100</sub> -Au <sub>X</sub> Nanoparticle Monolayer on Polyimide Film. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 2467-2470	2	
6	Optical, structural, and magnetic properties of p-type InMnP:Zn implanted with the Mn (1 and 10 at.%). <i>Solid State Communications</i> , <b>2007</b> , 144, 128-133	1.6	
5	Crystallization of Co <sub>58</sub> Mn <sub>20</sub> GexB <sub>10</sub> Si <sub>12</sub> (x=5, 10) metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 531-534	5.3	
4	Effect of Ag under-layer on patterning of periodic magnetic structure using femtosecond laser-induced crystallization. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 1581-1583	2.8	
3	Relevant, systematic variation of morphology and magnetism according to annealing in InMnP:Zn. <i>Applied Surface Science</i> , <b>2007</b> , 254, 494-498	6.7	

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