

# Chong S Yoon

## 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.

253  
papers

16,187  
citations

69  
h-index

123  
g-index

270  
ext. papers

19,112  
ext. citations

9.5  
avg, IF

7.07  
L-index

#	Paper	IF	Citations
253	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
252	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
251	Microstructure Engineered Ni-Rich Layered Cathode for Electric Vehicle Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100884	21.8	21
250	Mn Fe <sub>5</sub> Si <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
249	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
248	Microstrain Alleviation in High-Energy Ni-Rich NCM Cathode for Long Battery Life. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 216-223	20.1	33
247	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
246	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
245	Capacity Fading Mechanisms in Ni-Rich Single-Crystal NCM Cathodes. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2726-2734	33.4	53
244	Ultra-stable cycling of multi-doped (Zr,B) Li[Ni <sub>0.885</sub> Co <sub>0.100</sub> Al <sub>0.015</sub> ]O <sub>2</sub> cathode. <i>Journal of Power Sources</i> , <b>2021</b> , 513, 230548	8.9	1
243	High-performance Ni-rich Li[Ni <sub>0.9</sub> Co <sub>0.1</sub> Al <sub>x</sub> ]O <sub>2</sub> cathodes via multi-stage microstructural tailoring from hydroxide precursor to the lithiated oxide. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 5084-5095	35.4	12
242	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
241	Multi-Doped (Ga,B) Li[Ni <sub>0.885</sub> Co <sub>0.100</sub> Al <sub>0.015</sub> ]O <sub>2</sub> Cathode. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 100557	3.9	10
240	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
239	Magnetocaloric properties of Nd Gd <sub>5</sub> -Si <sub>4</sub> Mn <sub>0.5</sub> Cr <sub>0.5</sub> (x = 0.5, 1, 1.5). <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 827, 154302	5.7	1
238	Mn <sub>5</sub> Ge <sub>3</sub> Nix refrigerant for active magnetic refrigeration. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 223903	2.5	4
237	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

236	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
235	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
234	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
233	Tungsten Oxide/Zirconia as a Functional Polysulfide Mediator for High-Performance Lithium Sulfur Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3168-3175	20.1	11
232	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
231	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
230	Quaternary Layered Ni-Rich NCMA Cathode for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 576-582	20.1	117
229	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
228	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
227	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
226	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
225	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
224	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
223	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
222	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
221	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
220	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
219	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

218	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	
217	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
216	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
215	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
214	Capacity Fading of Ni-Rich Li[Ni <sub>x</sub> Co <sub>y</sub> Mn <sub>1-x-y</sub> ]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
213	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
212	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
211	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
210	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
209	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
208	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
207	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
206	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
205	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
204	Interface morphology effect on the spin mixing conductance of Pt/FeO bilayers. <i>Scientific Reports</i> , <b>2018</b> , 8, 13907	4.9	8
203	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
202	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
201	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

200	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
199	Lithium-oxygen batteries: The reaction mechanism revealed. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 503-504	28.7	2
198	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
197	Critical behavior and magnetocaloric effect of Mn <sub>4.75</sub> Ge <sub>3</sub> (Co, Fe) <sub>0.25</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 931-937	5.7	11
196	Direct measurement of the magnetocaloric effect (Δad) of Mn <sub>5</sub> [(Fe,Co) Ge <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 729, 603-606	5.7	8
195	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
194	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
193	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
192	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
191	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
190	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
189	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
188	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
187	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
186	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
185	Adhesion of sputter-deposited Cu/Ti film on plasma-treated polymer substrate. <i>Thin Solid Films</i> , <b>2016</b> , 600, 90-97	2.2	5
184	Magnetocaloric effect of compositionally partitioned Mn <sub>5</sub> Ge <sub>3</sub> Ni <sub>x</sub> alloys produced by solid state sintering. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 681, 541-546	5.7	12
183	High-energy-density lithium-ion battery using a carbon-nanotube/Si 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

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	A comprehensive study of the role of transition metals in O3-type layered Na[Ni <sub>x</sub> Co <sub>y</sub> Mn <sub>z</sub> ]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>	13.7	83
180	Magnetocaloric refrigerant with wide operating temperature range based on Mn <sub>5-x</sub> Ge <sub>3</sub> (Co,Fe) <sub>x</sub> composite. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 644, 464-469	5.7	12
179	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
178	High surface area, mesoporous carbon for low-polarization, catalyst-free lithium oxygen battery. <i>Solid State Ionics</i> , <b>2015</b> , 278, 133-137	3.3	11
177	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
176	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
175	Characterization of Sputter-Deposited LiZr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Thin Film Solid Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2080-A2084	3.9	3
174	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
173	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
172	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
171	Magnetocaloric effect of Mn <sub>5+x</sub> Ge <sub>3-x</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 620, 164-167	5.7	10
170	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
169	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
168	Nanoconfinement of low-conductivity products in rechargeable sodium-air batteries. <i>Nano Energy</i> , <b>2015</b> , 12, 123-130	17.1	56
167	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
166	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
165	Molecular dynamics simulation of interlayer water embedded in phospholipid bilayer. <i>Materials Science and Engineering C</i> , <b>2014</b> , 36, 49-56	8.3	2



164	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
163	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
162	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
161	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
160	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
159	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
158	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
157	New optical transition, structural, and ferromagnetic properties of InCrP:Zn implanted with Cr. <i>Journal of Luminescence</i> , <b>2014</b> , 154, 593-596	3.8	4
156	Observation of ferromagnetic semiconductor behavior in manganese-oxide doped graphene. <i>AIP Advances</i> , <b>2014</b> , 4, 087120	1.5	5
155	Preparation of SERS active Ag nanoparticles encapsulated by phospholipids. <i>Journal of Raman Spectroscopy</i> , <b>2014</b> , 45, 292-298	2.3	8
154	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
153	Surface-enhanced Raman scattering substrate based on silver nanoparticle-deposited phospholipid multilayer. <i>Applied Surface Science</i> , <b>2013</b> , 287, 369-374	6.7	3
152	Deposition of metal nanoparticles on phospholipid multilayer membranes modified by gramicidin. <i>Langmuir</i> , <b>2013</b> , 29, 13251-7	4	1
151	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
150	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	
149	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
148	Comparison of the structural and electrochemical properties of layered Li[Ni <sub>x</sub> Co <sub>y</sub> Mn <sub>z</sub> ]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
147	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

146	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
145	Influence of temperature on lithium-oxygen battery behavior. <i>Nano Letters</i> , <b>2013</b> , 13, 2971-5	11.5	52
144	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
143	Optical and structural properties of Ag:Ta2O5 nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 3451-4	1.3	2
142	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
141	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
140	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	
139	Effect of plasma etching on photoluminescence of SnO(x)/Sn nanoparticles deposited on DOPC lipid membrane. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 368, 257-62	9.3	3
138	The role of AlF3 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
137	Batteries: The Role of AlF3 Coatings in Improving Electrochemical Cycling of Li-Enriched Nickel-Manganese Oxide Electrodes for Li-Ion Batteries (Adv. Mater. 9/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 1276-1276	24	5
136	Formation of Ag nanostrings induced by lyotropic liquid-crystalline phospholipid multilayer. <i>Langmuir</i> , <b>2012</b> , 28, 259-63	4	4
135	Effect of temperature and humidity on coarsening behavior of Au nanoparticles embedded in liquid crystalline lipid membrane. <i>Langmuir</i> , <b>2012</b> , 28, 10980-7	4	5
134	Nanostructured high-energy cathode materials for advanced lithium batteries. <i>Nature Materials</i> , <b>2012</b> , 11, 942-7	27	781
133	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	
132	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
131	Structure of solid-supported lipid membrane probed by noble metal nanoparticle deposition. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 2884-91	3.8	6
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129	Effect of Crystal Structure and Grain Size on Photo-Catalytic Activities of Remote-Plasma Atomic Layer Deposited Titanium Oxide Thin Film. <i>ECS Journal of Solid State Science and Technology</i> , <b>2012</b> , 1, Q63-Q69	2	12



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127	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
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124	Polypyrrole-modified graphitized carbon black as a catalyst support for methanol oxidation. <i>Applied Catalysis A: General</i> , <b>2011</b> , 409-410, 156-161	5.1	7
123	Annealing-induced enhancement of ferromagnetism in SnO <sub>2</sub> -core/Cu-shell coaxial nanowires. <i>Metals and Materials International</i> , <b>2011</b> , 17, 641-647	2.4	7
122	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
121	Electrochemical Properties of Solid Electrolyte Interphase Prepared Li <sub>2</sub> Zr <sub>x</sub> Ti <sub>1-x</sub> (PO <sub>4</sub> ) <sub>3</sub> Electrodes for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, A396	3.9	8
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119	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
118	Facile method of fabricating Sn nanoparticle monolayer using solid-supported liquid-crystalline phospholipid membrane. <i>Applied Surface Science</i> , <b>2011</b> , 257, 8702-8711	6.7	7
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115	Synthesis of ultra-thin polypyrrole nanosheets for chemical sensor applications. <i>Polymer</i> , <b>2011</b> , 52, 652-657	5.9	44
114	Clarification of enhanced ferromagnetism in Be-codoped InMnP fabricated using Mn/InP:Be bilayers grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 192109	3.4	6
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112	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
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104	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
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102	Shape-controlled fabrication of polypyrrole microstructures by replicating organic crystals through electrostatic interactions. <i>Polymer</i> , <b>2010</b> , 51, 5400-5406	3.9	10
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94	Enhanced electrical conductivity of Ag-mercaptopropionic acid-redoped polyaniline nanoparticles during thermal cycling above 200°C. <i>Polymer Degradation and Stability</i> , <b>2009</b> , 94, 208-212	4.7	4
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86	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
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84	Hierarchical nanostructure generated by decorating SiO <sub>x</sub> nanowires with CoPt nanoparticles. <i>Nanotechnology</i> , <b>2008</b> , 19, 465601	3.4	3
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71	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	
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69	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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66	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	
65	Synthesis of monolayered NiBe alloy nanoparticles based on nanotemplate approach. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 2402-2404	2.8	6
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59	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
58	AlF <sub>3</sub> -Coating to Improve High Voltage Cycling Performance of Li[Ni <sub>1B</sub> Co <sub>1B</sub> Mn <sub>1B</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
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37	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
36	Improvement of High-Voltage Cycling Behavior of Surface-Modified Li[Ni <sub>1</sub> Co <sub>1</sub> Mn <sub>1</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
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22	Effect of Li-Doping on Electrochemical Performance of Natural Graphite Anode for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A1728	3.9	5
21	Magnetic properties of NiFe/Ru(V)/NiFe synthetic ferrimagnetic layers. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 1724-1727		4



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