

# Won-Sub 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.

234  
papers

10,585  
citations

57  
h-index

94  
g-index

243  
ext. papers

12,131  
ext. citations

9.5  
avg, IF

6.35  
L-index

#	Paper	IF	Citations
234	Unveiling the Genesis and Effectiveness of Negative Fading in Nanostructured Iron Oxide Anode Materials for Lithium-Ion Batteries.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	6
233	The effect of high-temperature storage on the reaction heterogeneity of Ni-rich layered cathode materials. <i>Energy Storage Materials</i> , <b>2022</b> , 46, 259-268	19.4	3
232	Inhomogeneous lithium-storage reaction triggering the inefficiency of all-solid-state batteries. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 66, 226-236	12	6
231	Bonding dependent lithium storage behavior of molybdenum oxides for next-generation Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 7718-7727	13	1
230	Strategic Approach to Diversify Design Options for Li-Ion Batteries by Utilizing Low-Ni Layered Cathode Materials (Adv. Energy Mater. 7/2022). <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2270028	21.8	
229	Challenges and Design Strategies for Conversion-Based Anode Materials for Lithium- and Sodium-Ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , <b>2022</b> , 13, 32-53	3.2	1
228	Revealing the unconventional lithium storage mechanism of ordered mesoporous NiO for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 526, 231135	8.9	1
227	Strategic Approach to Diversify Design Options for Li-Ion Batteries by Utilizing Low-Ni Layered Cathode Materials. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103052	21.8	1
226	Crystal Water-Assisted Additional Capacity for Nickel Hydroxide Anode Materials (Adv. Funct. Mater. 17/2022). <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2270101	15.6	
225	Destabilization of the Surface Structure of Ni-Rich Layered Materials by Water-Washing Process. <i>Energy Storage Materials</i> , <b>2021</b> ,	19.4	8
224	Understanding the effect of nonmetallic impurities in regenerated cathode materials for lithium-ion battery recycling by tracking down impurity elements. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 425, 127907	12.8	1
223	Triggering anomalous capacity by nanoengineered ordered mesoporous structure for Co <sub>3</sub> O <sub>4</sub> anode material in Li-ion rechargeable batteries. <i>Applied Surface Science</i> , <b>2021</b> , 151744	6.7	1
222	Polymorphic Effects on Electrochemical Performance of Conversion-Based MnO Anode Materials for Next-Generation Li Batteries. <i>Small</i> , <b>2021</b> , 17, e2006433	11	8
221	Evidence for the Coexistence of Polysulfide and Conversion Reactions in the Lithium Storage Mechanism of MoS <sub>2</sub> Anode Material. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1935-1945	9.6	2
220	The effects of nanostructures on lithium storage behavior in Mn <sub>2</sub> O <sub>3</sub> anodes for next-generation lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2021</b> , 493, 229682	8.9	7
219	Superior Rate Capability and Cycling Stability in Partially Cation-Disordered Co-Free Li-Rich Layered Materials Enabled by an Initial Activation Process. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5115-5126	9.6	1
218	Improving stability using a mixed ion/hybrid electrolyte strategy in a sodium ion capacitor. <i>Journal of Power Sources</i> , <b>2021</b> , 500, 229918	8.9	2

217	Reaction mechanism and additional lithium storage of mesoporous MnO <sub>2</sub> anode in Li batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 53, 276-284	12	10
216	Optimizing high voltage Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> cathode for achieving high rate sodium-ion batteries with long cycle life. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126291	14.7	20
215	Flexible quasi-solid-state lithium-ion capacitors employing amorphous SiO <sub>2</sub> nanospheres encapsulated in nitrogen-doped carbon shell as a high energy anode. <i>Journal of Power Sources</i> , <b>2021</b> , 484, 229143	8.9	11
214	Impact of Local Separation on the Structural and Electrochemical Behaviors in Li <sub>2</sub> MoO <sub>3</sub> ?LiCrO <sub>2</sub> Disordered Rock-Salt Cathode Material. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002958	21.8	3
213	Conduction Mechanism of Charge Carriers in Electrodes and Design Factors for the Improvement of Charge Conduction in Li-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , <b>2021</b> , 12, 1-20	3.2	12
212	Dual lithium storage of Pt electrode: alloying and reversible surface layer. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 18377-18384	13	2
211	Understanding the structural phase transitions in lithium vanadium phosphate cathodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10331-10336	13	15
210	Enhancing the structural durability of Ni-rich layered materials by post-process: washing and heat-treatment. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10206-10216	13	16
209	Cinnamon-Derived Hierarchically Porous Carbon as an Effective Lithium Polysulfide Reservoir in Lithium-Sulfur Batteries. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	9
208	Multiscale factors in designing alkali-ion (Li, Na, and K) transition metal inorganic compounds for next-generation rechargeable batteries. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4406-4449	35.4	33
207	Exploring Anomalous Charge Storage in Anode Materials for Next-Generation Li Rechargeable Batteries. <i>Chemical Reviews</i> , <b>2020</b> , 120, 6934-6976	68.1	196
206	A multiscale investigation elucidating the structural complexities and electrochemical properties of layered-layered composite cathode materials synthesized at low temperatures. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 5439-5448	3.6	1
205	Anionic Redox Chemistry as a Clue for Understanding the Structural Behavior in Layered Cathode Materials. <i>Small</i> , <b>2020</b> , 16, e1905875	11	15
204	High Capacity and Reversibility of Oxygen-Vacancy-Controlled MoO <sub>3</sub> on Cu in Li-Ion Batteries: Unveiling Storage Mechanism in Binder-Free MoO <sub>3</sub> ? Anodes. <i>Energy Technology</i> , <b>2020</b> , 8, 1901502	3.5	10
203	Tracking the Influence of Thermal Expansion and Oxygen Vacancies on the Thermal Stability of Ni-Rich Layered Cathode Materials. <i>Advanced Science</i> , <b>2020</b> , 7, 1902413	13.6	27
202	SnO <sub>2</sub> -Coated 3D Etched Cu Foam for Lithium-ion Battery Anode. <i>Journal of Electrochemical Science and Technology</i> , <b>2020</b> , 11, 92-98	3.2	4
201	Modeling and Applications of Electrochemical Impedance Spectroscopy (EIS) for Lithium-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , <b>2020</b> , 11, 1-13	3.2	148
200	Applications of Voltammetry in Lithium Ion Battery Research. <i>Journal of Electrochemical Science and Technology</i> , <b>2020</b> , 11, 14-25	3.2	43

199	Nanostructured Electrode Materials for Rechargeable Lithium-Ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , <b>2020</b> , 11, 195-219	3.2	14
198	Synthesis of ceria-carbon composite spheres and their application for next-generation lithium rechargeable batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 837, 155467	5.7	3
197	Catalytic effect of reduced graphene oxide on facilitating reversible conversion reaction in SnO <sub>2</sub> for next-generation Li rechargeable batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 446, 227321	8.9	16
196	Controlled Atomic Solubility in Mn-Rich Composite Material to Achieve Superior Electrochemical Performance for Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902231	21.8	9
195	Additional Lithium Storage on Dynamic Electrode Surface by Charge Redistribution in Inactive Ru Metal. <i>Small</i> , <b>2020</b> , 16, e1905868	11	2
194	Stabilizing effects of Al-doping on Ni-rich LiNi <sub>0.80</sub> Co <sub>0.15</sub> Mn <sub>0.05</sub> O <sub>2</sub> cathode for Li rechargeable batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 474, 228592	8.9	28
193	Fully Exploited Oxygen Redox Reaction by the Inter-Diffused Cations in Co-Free Li-Rich Materials for High Performance Li-Ion Batteries. <i>Advanced Science</i> , <b>2020</b> , 7, 2001658	13.6	8
192	Nanoengineered Organic Electrodes for Highly Durable and Ultrafast Cycling of Organic Sodium-Ion Batteries. <i>Small</i> , <b>2020</b> , 16, e2003688	11	11
191	Ultrafast kinetics in a phase separating electrode material by forming an intermediate phase without reducing the particle size. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4258-4268	35.4	5
190	Kathodenmaterialien für wiederaufladbare Lithiumbatterien. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 2598-2626	3.6	12
189	Advances in the Cathode Materials for Lithium Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2578-2605	16.4	170
188	Surface enriched graphene hollow spheres towards building ultra-high power sodium-ion capacitor with long durability. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 702-713	19.4	24
187	Triggered reversible phase transformation between layered and spinel structure in manganese-based layered compounds. <i>Nature Communications</i> , <b>2019</b> , 10, 3385	17.4	26
186	Low Iridium Content Confined inside a Co <sub>3</sub> O <sub>4</sub> Hollow Sphere for Superior Acidic Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16640-16650	8.3	9
185	Structural and Electrochemical Kinetic Properties of 0.5LiMnO <sub>2</sub> ·0.5LiCoO <sub>2</sub> Cathode Materials with Different LiMnO Domain Sizes. <i>Scientific Reports</i> , <b>2019</b> , 9, 427	4.9	11
184	Carbon-Coated Supraballs of Randomly Packed LiFePO <sub>4</sub> Nanoplates for High Rate and Stable Cycling of Li-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1900149	3.1	3
183	Highly Efficient Nanocarbon Coating Layer on the Nanostructured Copper Sulfide-Metal Organic Framework Derived Carbon for Advanced Sodium-Ion Battery Anode. <i>Materials</i> , <b>2019</b> , 12,	3.5	13
182	Phase Dynamics on Conversion-Reaction-Based Tin-Doped Ferrite Anode for Next-Generation Lithium Batteries. <i>ACS Nano</i> , <b>2019</b> , 13, 5674-5685	16.7	30

181	Pore-interconnected hollow (Sn,Ti)O <sub>2</sub> solid-solution nanoparticles for lithium-ion battery anode materials. <i>Composites Part B: Engineering</i> , <b>2019</b> , 166, 613-620	10	7
180	Mechanistic studies on reversible conversion reaction in Li <sub>2</sub> MnO <sub>3</sub> -carbon nanotube composite anode. <i>Journal of Power Sources</i> , <b>2019</b> , 423, 323-330	8.9	9
179	O <sub>3</sub> -type NaNi <sub>1/3</sub> Fe <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> layered cathode for Na-ion batteries: Structural evolution and redox mechanism upon Na (de) intercalation. <i>Journal of Power Sources</i> , <b>2019</b> , 439, 227064	8.9	25
178	Li-Ion Batteries: Carbon-Coated Supraballs of Randomly Packed LiFePO <sub>4</sub> Nanoplates for High Rate and Stable Cycling of Li-Ion Batteries (Part. Part. Syst. Charact. 7/2019). <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1970019	3.1	
177	Indirect-To-Direct Band Gap Transition of One-Dimensional VSe: Theoretical Study with Dispersion Energy Correction. <i>ACS Omega</i> , <b>2019</b> , 4, 18392-18397	3.9	10
176	Comparative study of bulk and nano-structured mesoporous SnO <sub>2</sub> electrodes on the electrochemical performances for next generation Li rechargeable batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 413, 241-249	8.9	26
175	A facile and surfactant-free synthesis of porous hollow $\delta$ -MnO <sub>2</sub> 3D nanoarchitectures for lithium ion batteries with superior performance. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 778, 37-46	5.7	28
174	Hierarchically structured nanoporous copper for use as lithium-ion battery anode. <i>Scripta Materialia</i> , <b>2019</b> , 163, 9-13	5.6	12
173	Amorphous germanium oxide nanobubbles for lithium-ion battery anode. <i>Materials Research Bulletin</i> , <b>2019</b> , 110, 24-31	5.1	15
172	Exceptional Lithium Storage in a Co(OH) Anode: Hydride Formation. <i>ACS Nano</i> , <b>2018</b> , 12, 2909-2921	16.7	39
171	Synergistic effect of nano-Pt and Ni spine for HER in alkaline solution: hydrogen spillover from nano-Pt to Ni spine. <i>Scientific Reports</i> , <b>2018</b> , 8, 2986	4.9	37
170	Nanostructural Uniformity of Ordered Mesoporous Materials: Governing Lithium Storage Behaviors. <i>Small</i> , <b>2018</b> , 14, e1702985	11	12
169	Characterization and Control of Irreversible Reaction in Li-Rich Cathode during the Initial Charge Process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10804-10818	9.5	35
168	Non-aqueous quasi-solid electrolyte for use in supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 59, 192-195	6.3	6
167	New Insight into Ni-Rich Layered Structure for Next-Generation Li Rechargeable Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701788	21.8	113
166	Further utilization of a Mn redox reaction via control of structural disorder in olivine systems. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13743-13750	13	8
165	Direct observation of pseudocapacitive sodium storage behavior in molybdenum dioxide anodes. <i>Journal of Power Sources</i> , <b>2018</b> , 397, 113-123	8.9	3
164	A New Strategy for High-Voltage Cathodes for K-Ion Batteries: Stoichiometric KVPO <sub>4</sub> F. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801591	21.8	90

163	Enhancement of the interfacial reaction on mesoporous RuO <sub>2</sub> for next generation Li batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 396, 749-753	8.9	13
162	Revisiting Solid Electrolyte Interphase on the Carbonaceous Electrodes Using Soft X-ray Absorption Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29992-29999	9.5	6
161	Biomass Waste, Coffee Grounds-derived Carbon for Lithium Storage. <i>Journal of Electrochemical Science and Technology</i> , <b>2018</b> , 9, 163-168	3.2	5
160	Batteries: Nanostructural Uniformity of Ordered Mesoporous Materials: Governing Lithium Storage Behaviors (Small 43/2018). <i>Small</i> , <b>2018</b> , 14, 1870197	11	
159	From grass to battery anode: agricultural biomass hemp-derived carbon for lithium storage.. <i>RSC Advances</i> , <b>2018</b> , 8, 32231-32240	3.7	23
158	Porous supraparticles of LiFePO <sub>4</sub> nanorods with carbon for high rate Li-ion batteries. <i>Materials Express</i> , <b>2018</b> , 8, 316-324	1.3	7
157	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	72
156	A biocompatible implant electrode capable of operating in body fluids for energy storage devices. <i>Nano Energy</i> , <b>2017</b> , 34, 86-92	17.1	25
155	A Simple Synthesis of Co <sub>3</sub> O <sub>4</sub> Nanoparticles Decorated on Multiwalled Carbon Nanotubes Hybrid Material for Rechargeable Li-Ion and Li-Air Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 3390-3396	1.3	6
154	Anode Design Based on Microscale Porous Scaffolds for Advanced Lithium Ion Batteries. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 3789-3795	1.9	12
153	Solvent-polarity-induced hematite (Fe <sub>2</sub> O <sub>3</sub> ) nanostructures for lithium-ion battery and photoelectrochemical applications. <i>Electrochimica Acta</i> , <b>2017</b> , 245, 643-653	6.7	17
152	Electronic structural studies on the improved thermal stability of Li(Ni <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> )O <sub>2</sub> by ZrO <sub>2</sub> coating for lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , <b>2017</b> , 47, 565-572	2.6	9
151	Processing and characterization of titanium dioxide grown on titanium foam for potential use as Li-ion electrode. <i>Applied Surface Science</i> , <b>2017</b> , 411, 363-367	6.7	12
150	Hierarchical micro-lamella-structured 3D porous copper current collector coated with tin for advanced lithium-ion batteries. <i>Applied Surface Science</i> , <b>2017</b> , 399, 132-138	6.7	31
149	Zr-doping effect on the capacity retention of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cycled between 5.0 and 1.0V: In situ synchrotron X-Ray diffraction study. <i>Journal of Power Sources</i> , <b>2017</b> , 368, 1-10	8.9	19
148	Loose-fit graphitic encapsulation of silicon nanowire for one-dimensional Si anode design. <i>Journal of Materials Science and Technology</i> , <b>2017</b> , 33, 1120-1127	9.1	6
147	NaFeF <sub>2</sub> nanocomposite: New type of Na-ion battery cathode material. <i>Nano Research</i> , <b>2017</b> , 10, 4388-4397	11	
146	Synthesis and electrochemical properties of dual doped spinels LiNi <sub>x</sub> Al <sub>y</sub> Mn <sub>2-x-y</sub> O <sub>4</sub> via facile novel chelated sol-gel method as possible cathode material for lithium rechargeable batteries. <i>Journal of Energy Chemistry</i> , <b>2017</b> , 26, 101-114	12	8

145	Effects of multi-dopants (Zn and Ho) in stabilizing spinel structure for cathode materials in lithium rechargeable batteries. Novel chelated sol-gel synthesis. <i>Particuology</i> , <b>2016</b> , 24, 87-95	2.8	6
144	In situ analyses for ion storage materials. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 5717-5770	58.5	76
143	Discovery of abnormal lithium-storage sites in molybdenum dioxide electrodes. <i>Nature Communications</i> , <b>2016</b> , 7, 11049	17.4	100
142	Porous V <sub>2</sub> O <sub>5</sub> /RGO/CNT hierarchical architecture as a cathode material: Emphasis on the contribution of surface lithium storage. <i>Scientific Reports</i> , <b>2016</b> , 6, 31275	4.9	32
141	Effect of local structural changes on rate capability of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 686, 593-600	5.7	18
140	Cerotic acid assisted sol-gel synthesis and electrochemical performance of double doped spinels (LiCr <sub>x</sub> Mg <sub>y</sub> Mn <sub>2-x-y</sub> O <sub>4</sub> ) as cathode materials for lithium rechargeable batteries. <i>Powder Technology</i> , <b>2016</b> , 301, 197-210	5.2	11
139	Evidence of reversible oxygen participation in anomalously high capacity Li- and Mn-rich cathodes for Li-ion batteries. <i>Nano Energy</i> , <b>2016</b> , 21, 172-184	17.1	109
138	Mesoporous transition metal dichalcogenide ME <sub>2</sub> (M = Mo, W; E = S, Se) with 2-D layered crystallinity as anode materials for lithium ion batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 14253-14260	3.7	46
137	Novel chelating agent assisted dual doped spinel via sol-gel method for lithium rechargeable batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 767, 141-152	4.1	5
136	Fe <sub>3</sub> O <sub>4</sub> nanoparticles encapsulated in one-dimensional Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanomatrix: An extremely reversible anode for long life and high capacity Li-ion batteries. <i>Nano Energy</i> , <b>2016</b> , 19, 246-256	17.1	23
135	Discovering a Dual-Buffer Effect for Lithium Storage: Durable Nanostructured Ordered Mesoporous Co <sub>3</sub> N Intermetallic Electrodes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2800-2808	15.6	40
134	Understanding Origin of Voltage Hysteresis in Conversion Reaction for Na Rechargeable Batteries: The Case of Cobalt Oxides. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5042-5050	15.6	54
133	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2902-2915	35.4	36
132	Sodium intercalation chemistry in graphite. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2963-2969	35.4	287
131	Rational syntheses of core-shell Fe@(PtRu) nanoparticle electrocatalysts for the methanol oxidation reaction with complete suppression of CO-poisoning and highly enhanced activity. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 17154-17164	13	90
130	Zinc and aluminium: glutamic acid assisted dual-doped LiMn <sub>2</sub> O <sub>4</sub> spinels via sol-gel method as cathode material for use in lithium rechargeable batteries. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 73, 62-71	2.3	8
129	High-performance flexible lead-free nanocomposite piezoelectric nanogenerator for biomechanical energy harvesting and storage. <i>Nano Energy</i> , <b>2015</b> , 15, 177-185	17.1	156
128	Deciphering the thermal behavior of lithium rich cathode material by in situ X-ray diffraction technique. <i>Journal of Power Sources</i> , <b>2015</b> , 285, 156-160	8.9	26

127	Self-assembled porous MoO <sub>2</sub> /graphene microspheres towards high performance anodes for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 275, 351-361	8.9	116
126	Probing the Additional Capacity and Reaction Mechanism of the RuO <sub>2</sub> Anode in Lithium Rechargeable Batteries. <i>ChemSusChem</i> , <b>2015</b> , 8, 2378-84	8.3	47
125	Incorporation of PEDOT:PSS into SnO <sub>2</sub> /reduced graphene oxide nanocomposite anodes for lithium-ion batteries to achieve ultra-high capacity and cyclic stability. <i>RSC Advances</i> , <b>2015</b> , 5, 13964-13977	7.7	27
124	In Operando Monitoring of the Pore Dynamics in Ordered Mesoporous Electrode Materials by Small Angle X-ray Scattering. <i>ACS Nano</i> , <b>2015</b> , 9, 5470-7	16.7	30
123	Ultrathin supercapacitor electrodes with high volumetric capacitance and stability using direct covalent-bonding between pseudocapacitive nanoparticles and conducting materials. <i>Nano Energy</i> , <b>2015</b> , 12, 612-625	17.1	43
122	Cu <sub>2</sub> MnSiO <sub>4</sub> -polyaniline composite hybrids as high performance cathode for lithium batteries. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 630, 292-298	5.7	11
121	In situ soft XAS study on nickel-based layered cathode material at elevated temperatures: a novel approach to study thermal stability. <i>Scientific Reports</i> , <b>2014</b> , 4, 6827	4.9	45
120	Lithium-ion transport through a tailored disordered phase on the LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> surface for high-power cathode materials. <i>ChemSusChem</i> , <b>2014</b> , 7, 2248-54	8.3	23
119	The Reaction Mechanism and Capacity Degradation Model in Lithium Insertion Organic Cathodes, Li <sub>2</sub> C <sub>6</sub> O <sub>6</sub> , Using Combined Experimental and First Principle Studies. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3086-92	6.4	71
118	Synthesis and electrochemical characterization on dual-doped LiCoO <sub>2</sub> via green chemistry method for lithium rechargeable batteries. <i>Journal of Applied Electrochemistry</i> , <b>2014</b> , 44, 709-718	2.6	7
117	Microwave-assisted hydrothermal synthesis of electrochemically active nano-sized Li <sub>2</sub> MnO <sub>3</sub> dispersed on carbon nanotube network for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 591, 356-361	5.7	15
116	Understanding the exceptional elevated temperature performance of high voltage LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathodes by LiFePO <sub>4</sub> modification. <i>Electrochimica Acta</i> , <b>2014</b> , 137, 404-410	6.7	8
115	New Insight into the Reaction Mechanism for Exceptional Capacity of Ordered Mesoporous SnO <sub>2</sub> Electrodes via Synchrotron-Based X-ray Analysis. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6361-6370	9.6	105
114	Reversible phase transformation of titania (anatase) nanotubes upon electrochemical lithium-intercalation observed by ex situ transmission electron microscopy. <i>Journal of Power Sources</i> , <b>2014</b> , 249, 59-65	8.9	17
113	Enhanced high-temperature cycling of Li <sub>2</sub> O/B <sub>2</sub> O <sub>3</sub> -coated spinel-structured LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode material for application to lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 601, 217-222	5.7	38
112	Study on structure and electrochemical properties of carbon-coated monoclinic Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> using synchrotron based in situ X-ray diffraction and absorption. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 569, 76-81	5.7	36
111	Understanding the Electrochemical Mechanism of the New Iron-Based Mixed-Phosphate Na <sub>4</sub> Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> (P <sub>2</sub> O <sub>7</sub> ) in a Na Rechargeable Battery. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3614-3622	9.6	174
110	Thermal stability of charged LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> cathode for Li-ion batteries investigated by synchrotron based in situ X-ray diffraction. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 562, 219-223	5.7	57



109	Entangled Germanium Nanowires and Graphite Nanofibers for the Anode of Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A112-A116	3.9	29
108	Crystal and local structure studies of LiFe <sub>0.48</sub> Mn <sub>0.48</sub> Mg <sub>0.04</sub> PO <sub>4</sub> cathode material for lithium rechargeable batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 244, 581-585	8.9	17
107	A Study on the Structural and Electrochemical Properties of Li <sub>0.99</sub> Ni <sub>0.46</sub> Mn <sub>1.56</sub> O <sub>4</sub> Cathode Material Using Synchrotron based in-situ X-ray Diffraction. <i>Journal of Electrochemical Science and Technology</i> , <b>2013</b> , 4, 34-40	3.2	3
106	A Study on the Structural and Electrochemical Properties of Li <sub>0.99</sub> Ni <sub>0.46</sub> Mn <sub>1.56</sub> O <sub>4</sub> Cathode Material Using Synchrotron based in-situ X-ray Diffraction. <i>Journal of Electrochemical Science and Technology</i> , <b>2013</b> , 4, 34-40	3.2	11
105	Structural and Electrochemical Properties of Doped LiFe <sub>0.48</sub> Mn <sub>0.48</sub> Mg <sub>0.04</sub> PO <sub>4</sub> as Cathode Material for Lithium ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , <b>2013</b> , 4, 102-107	3.2	7
104	The kinetic effect on structural behavior of mixed LiMn <sub>2</sub> O <sub>4</sub> /Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode materials studied by in situ time-resolved X-ray diffraction technique. <i>Electrochemistry Communications</i> , <b>2012</b> , 15, 74-77	5.1	16
103	Stability characteristics of Pt <sub>1</sub> Ni <sub>1</sub> /C as cathode catalysts in membrane electrode assembly of polymer electrolyte membrane fuel cell. <i>Electrochimica Acta</i> , <b>2012</b> , 59, 264-269	6.7	20
102	Nanoscale size effect of titania (anatase) nanotubes with uniform wall thickness as high performance anode for lithium-ion secondary battery. <i>Journal of Power Sources</i> , <b>2012</b> , 204, 162-167	8.9	57
101	Exceptional electrochemical performance of freestanding electrospun carbon nanofiber anodes containing ultrafine SnO <sub>x</sub> particles. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9895	35.4	142
100	Structural study of the coating effect on the thermal stability of charged MgO-coated LiNi <sub>0.8</sub> Co <sub>0.2</sub> O <sub>2</sub> cathodes investigated by in situ XRD. <i>Journal of Power Sources</i> , <b>2012</b> , 217, 128-134	8.9	52
99	Carbon supported, Al doped-Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as a high rate cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6556		111
98	The dependence of performance degradation of membrane electrode assembly on platinum loading in polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 2490-2497	6.7	20
97	Crystal Structure Changes of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> Cathode Materials During the First Charge Investigated by in situ XRD. <i>Journal of Electrochemical Science and Technology</i> , <b>2012</b> , 3, 29-34	3.2	9
96	Crystal Structure Changes of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> Cathode Materials During the First Charge Investigated by in situ XRD. <i>Journal of Electrochemical Science and Technology</i> , <b>2012</b> , 3, 29-34	3.2	11
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94	Formation of an SEI on a LiMn <sub>2</sub> O <sub>4</sub> cathode during room temperature charge/discharge cycling studied by soft X-ray absorption spectroscopy at the Fluorine K-edge. <i>Journal of Applied Electrochemistry</i> , <b>2011</b> , 41, 1295-1299	2.6	16
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92	Preparation of MEA with the Polybenzimidazole Membrane for High Temperature PEM Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , <b>2011</b> , 14, B38		13

91	Influence of carbon towards improved lithium storage properties of Li <sub>2</sub> MnSiO <sub>4</sub> cathodes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2470		112
90	Comparative studies on C-coated and uncoated LiFePO <sub>4</sub> cycling at various rates and temperatures using synchrotron based in situ X-ray diffraction. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 1182-1189	6.7	25
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78	Performance enhancement of membrane electrode assemblies with plasma etched polymer electrolyte membrane in PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10452-10456	6.7	26
77	The Fe K-edge X-ray absorption characteristics of La <sub>1-x</sub> Sr <sub>x</sub> FeO <sub>3</sub> prepared by solid state reaction. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 1397-1404	5.1	67
76	Unusual Lattice-Magnetism Connections in MnBi Nanorods. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1100-1105	15.6	11
75	Nd <sub>2</sub> K <sub>2</sub> IrO <sub>7</sub> und Sm <sub>2</sub> K <sub>2</sub> IrO <sub>7</sub> : Normaldrucksynthese komplexer Iridium(VI)-oxide. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 221-224	3.6	4
74	Nd <sub>2</sub> K <sub>2</sub> IrO <sub>7</sub> und Sm <sub>2</sub> K <sub>2</sub> IrO <sub>7</sub> : Normaldrucksynthese komplexer Iridium(VI)-oxide. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 1023-1023	3.6	

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71	Electrodeposited manganese oxides on three-dimensional carbon nanotube substrate: Supercapacitive behaviour in aqueous and organic electrolytes. <i>Journal of Power Sources</i> , <b>2009</b> , 188, 323-331	8.9	158
70	The phase transition behaviors of Li <sub>1-x</sub> Mn <sub>0.5</sub> Fe <sub>0.5</sub> PO <sub>4</sub> during lithium extraction studied by in situ X-ray absorption and diffraction techniques. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 2023-2026	5.1	37
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64	Nano-sized lithium manganese oxide dispersed on carbon nanotubes for energy storage applications. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1575-1578	5.1	50
63	In situ X-ray absorption and diffraction studies of carbon coated LiFe <sub>1/4</sub> Mn <sub>1/4</sub> Co <sub>1/4</sub> Ni <sub>1/4</sub> PO <sub>4</sub> cathode during first charge. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 913-916	5.1	45
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61	High rate capabilities induced by multi-phasic nanodomains in iron-substituted calcium cobaltite electrodes. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1829		17
60	A Novel Silver Molybdenum Oxyfluoride Perovskite as a Cathode Material for Lithium Batteries. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2139-2148	9.6	39
59	Electronic Structure and Chemistry of Iron-Based Metal Oxide Nanostructured Materials: A NEXAFS Investigation of BiFeO <sub>3</sub> , Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> , Fe <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , and Fe/Fe <sub>3</sub> O <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 10359-10369	3.8	75
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15	Oxygen Contribution on Li-Ion Intercalation-Deintercalation in $\text{LiCoO}_2$ Investigated by O K-Edge and Co L-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 2526-2532	3.4	249
14	Investigation of the Local Structure of the $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ Cathode Material during Electrochemical Cycling by X-Ray Absorption and NMR Spectroscopy. <i>Electrochemical and Solid-State Letters</i> , <b>2002</b> , 5, A263		158
13	Electrochemical characterization of layered $\text{LiCoO}_2$ films prepared by electrostatic spray deposition. <i>Journal of Power Sources</i> , <b>2001</b> , 97-98, 282-286	8.9	49
12	Synthesis of $\text{LiAl}_y\text{Co}_{1-y}\text{O}_2$ using acrylic acid and its electrochemical properties for Li rechargeable batteries. <i>Journal of Power Sources</i> , <b>2001</b> , 97-98, 303-307	8.9	25
11	Characterization of $\text{LiNi}_{0.85}\text{Co}_{0.10}\text{Mn}_{0.05}\text{O}_2$ (M = Al, Fe) as a cathode material for lithium secondary batteries. <i>Journal of Power Sources</i> , <b>2001</b> , 97-98, 308-312	8.9	73
10	Thermal behavior and the decomposition mechanism of electrochemically delithiated $\text{Li}_{1-x}\text{NiO}_2$ . <i>Journal of Power Sources</i> , <b>2001</b> , 97-98, 321-325	8.9	43
9	A Mechanistic Study on the Improvement of the Thermal Stability of Delithiated $\text{Li}_{1-x}\text{NiO}_2$ by Co Substitution for Ni. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, A1164	3.9	27
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5	Synthesis of $\text{LiCoO}_2$ using acrylic acid and its electrochemical properties for Li secondary batteries. <i>Journal of Power Sources</i> , <b>1999</b> , 81-82, 517-523	8.9	65
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3	Emerging Materials for Sodium-Ion Hybrid Capacitors: A Brief Review. <i>ACS Applied Energy Materials</i> ,	6.1	5
2	Principles and Applications of Galvanostatic Intermittent Titration Technique for Lithium-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> ,	3.2	3

1 Crystal Water-Assisted Additional Capacity for Nickel Hydroxide Anode Materials. *Advanced Functional Materials*, 2110828 15.6 1