# Won-Sub Yoon

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#	Paper	IF	Citations
234	Electrochemical and Structural Properties of xLi2MD3[(1☑)LiMn0.5Ni0.5O2 Electrodes for Lithium Batteries (MI Ti, Mn, Zr; 0 Ik? 0.3). <i>Chemistry of Materials</i> , <b>2004</b> , 16, 1996-2006	9.6	438
233	Investigation of the charge compensation mechanism on the electrochemically Li-ion deintercalated Li1-xCo1/3Ni1/3Mn1/3O2 electrode system by combination of soft and hard X-ray absorption spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 17479-87	16.4	356
232	Sodium intercalation chemistry in graphite. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2963-2969	35.4	287
231	Electrochemical properties of manganese oxide coated onto carbon nanotubes for energy-storage applications. <i>Journal of Power Sources</i> , <b>2008</b> , 178, 483-489	8.9	258
230	Oxygen Contribution on Li-Ion Intercalation Deintercalation in LiCoO2 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
229	Cation Ordering in Layered O3 Li[NixLi1/3-2x/3Mn2/3-x/3]O2 (0 lk ll/2) Compounds. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 2386-2394	9.6	245
228	In Situ X-ray Absorption Spectroscopic Study on LiNi0.5Mn0.5O2 Cathode Material during Electrochemical Cycling. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3161-3169	9.6	204
227	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
226	A comparative study on structural changes of LiCo1/3Ni1/3Mn1/3O2 and LiNi0.8Co0.15Al0.05O2 during first charge using in situ XRD. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 1257-1262	5.1	187
225	Local Structure and Cation Ordering in O3 Lithium Nickel Manganese Oxides with Stoichiometry Li[Ni[sub x]Mn[sub (2日)/3]Li[sub (1日x)/3]]O[sub 2]. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A167		180
224	Understanding the Electrochemical Mechanism of the New Iron-Based Mixed-Phosphate Na4Fe3(PO4)2(P2O7) in a Na Rechargeable Battery. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3614-3622	9.6	174
223	X-ray absorption spectroscopy studies of nickel oxide thin film electrodes for supercapacitors. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 3201-3209	6.7	174
222	Advances in the Cathode Materials for Lithium Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2578-2605	16.4	170
221	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
220	Investigation of the Local Structure of the LiNi[sub 0.5]Mn[sub 0.5]O[sub 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
219	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
218	Pseudocapacitive properties of electrochemically prepared nickel oxides on 3-dimensional carbon nanotube film substrates. <i>Journal of Power Sources</i> , <b>2008</b> , 182, 642-652	8.9	155

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217	Electrochemical performance and ex situ analysis of ZnMn2O4 nanowires as anode materials for lithium rechargeable batteries. <i>Nano Research</i> , <b>2011</b> , 4, 505-510	10	154
216	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
215	Exceptional electrochemical performance of freestanding electrospun carbon nanofiber anodes containing ultrafine SnOx particles. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9895	35.4	142
214	Cation Ordering in Li[NixMnxCo(1½x)]O2-Layered Cathode Materials: A Nuclear Magnetic Resonance (NMR), Pair Distribution Function, X-ray Absorption Spectroscopy, and Electrochemical Study. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 6277-6289	9.6	124
213	Electrochemical Activity of Li in the Transition-Metal Sites of O3 Li[Li[sub $(1\mbox{$\mathbb{Z}$} x)/3]$ Mn[sub $(2\mbox{$\mathbb{Z}$})/3$ ]Ni[sub x]]O[sub 2]. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A290		122
212	A novel concept of hybrid capacitor based on manganese oxide materials. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 2807-2811	5.1	118
211	Self-assembled porous MoO2/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
210	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
209	Influence of carbon towards improved lithium storage properties of Li2MnSiO4 cathodes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2470		112
208	Carbon supported, Al doped-Li3V2(PO4)3 as a high rate cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6556		111
207	Understanding the Crystal Structure of Layered LiNi[sub 0.5]Mn[sub 0.5]O[sub 2] by Electron Diffraction and Powder Diffraction Simulation. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A155		111
206	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
205	New Insight into the Reaction Mechanism for Exceptional Capacity of Ordered Mesoporous SnO2 Electrodes via Synchrotron-Based X-ray Analysis. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6361-6370	9.6	105
204	Discovery of abnormal lithium-storage sites in molybdenum dioxide electrodes. <i>Nature Communications</i> , <b>2016</b> , 7, 11049	17.4	100
203	In situ X-ray diffraction studies of mixed LiMn2O4IIiNi1/3Co1/3Mn1/3O2 composite cathode in Li-ion cells during chargedischarge cycling. <i>Journal of Power Sources</i> , <b>2009</b> , 192, 652-659	8.9	99
202	Combined NMR and XAS Study on Local Environments and Electronic Structures of Electrochemically Li-Ion Deintercalated Li[sub 1월]Co[sub 1/3]Ni[sub 1/3]Mn[sub 1/3]O[sub 2] Electrode System. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A53		99
201	Crystal structure changes of LiMn0.5Ni0.5O2 cathode materials during charge and discharge studied by synchrotron based in situ XRD. <i>Electrochemistry Communications</i> , <b>2002</b> , 4, 649-654	5.1	95
200	Electrochemical and In Situ Synchrotron XRD Studies on Al[sub 2]O[sub 3]-Coated LiCoO[sub 2] Cathode Material. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A1344	3.9	92

199	Rational syntheses of coreIhell 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
198	A New Strategy for High-Voltage Cathodes for K-Ion Batteries: Stoichiometric KVPO4F. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801591	21.8	90
197	Soft X-Ray Absorption Spectroscopic Study of a LiNi[sub 0.5]Mn[sub 0.5]O[sub 2] Cathode during Charge. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A246	3.9	85
196	Nanostructured MgFe2O4 as anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 7038-7041	5.7	81
195	Structural and Electrochemical Properties of LiAl[sub y]Co[sub 1]J]O[sub 2] Cathode for Li Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 2023	3.9	81
194	Investigating the first-cycle irreversibility of lithium metal oxide cathodes for Li batteries. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 4701-4706	4.3	78
193	In situ analyses for ion storage materials. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 5717-5770	58.5	76
192	Electronic Structure and Chemistry of Iron-Based Metal Oxide Nanostructured Materials: A NEXAFS Investigation of BiFeO3, Bi2Fe4O9, Fe2O3, Fe2O3, and Fe/Fe3O4. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 10359-10369	3.8	75
191	Characterization of LiNi0.85Co0.10M0.05O2 (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
190	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	72
189	The Reaction Mechanism and Capacity Degradation Model in Lithium Insertion Organic Cathodes, Li2C6O6, Using Combined Experimental and First Principle Studies. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3086-92	6.4	71
188	Preparation of LiCoPO4 and LiFePO4 coated LiCoPO4 materials with improved battery performance. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 497, 321-324	5.7	70
187	Investigation of the Lithiation and Delithiation Conversion Mechanisms of Bismuth Fluoride Nanocomposites. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A799	3.9	70
186	Electronic structural changes of the electrochemically Li-ion deintercalated LiNi0.8Co0.15Al0.05O2 cathode material investigated by X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , <b>2007</b> , 174, 1015-1020	8.9	68
185	The Fe K-edge X-ray absorption characteristics of La1\(\mathbb{B}\)SrxFeO3\(\bar{D}\)repared by solid state reaction. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 1397-1404	5.1	67
184	Structural changes and thermal stability of charged LiNi1/3Co1/3Mn1/3O2 cathode material for Li-ion batteries studied by time-resolved XRD. <i>Journal of Power Sources</i> , <b>2009</b> , 189, 515-518	8.9	65
183	New electrolytes for lithium ion batteries using LiF salt and boron based anion receptors. <i>Journal of Power Sources</i> , <b>2008</b> , 184, 517-521	8.9	65
182	Synthesis of LiCoO2 using acrylic acid and its electrochemical properties for Li secondary batteries. Journal of Power Sources, <b>1999</b> , 81-82, 517-523	8.9	65

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181	6Li MAS NMR and in situ X-ray studies of lithium nickel manganese oxides. <i>Journal of Power Sources</i> , <b>2003</b> , 119-121, 649-653	8.9	60	
180	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	
179	Thermal stability of charged LiNi0.5Co0.2Mn0.3O2 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	
178	Studies of LiMn[sub 2]O[sub 4] Capacity Fading at Elevated Temperature Using In Situ Synchrotron X-Ray Diffraction. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A774	3.9	57	
177	Structural studies of the new carbon-coated silicon anode materials using synchrotron-based in situ XRD. <i>Electrochemistry Communications</i> , <b>2002</b> , 4, 893-897	5.1	57	
176	First-cycle irreversibility of layered LiNiCoMn oxide cathode in Li-ion batteries. <i>Electrochimica Acta</i> , <b>2008</b> , 54, 684-689	6.7	55	
175	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	
174	Structural study of the coating effect on the thermal stability of charged MgO-coated LiNi0.8Co0.2O2 cathodes investigated by in situ XRD. <i>Journal of Power Sources</i> , <b>2012</b> , 217, 128-134	8.9	52	
173	Time-resolved XRD study on the thermal decomposition of nickel-based layered cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2006</b> , 163, 219-222	8.9	52	
172	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	
171	Electrochemical characterization of layered LiCoO2 films prepared by electrostatic spray deposition. <i>Journal of Power Sources</i> , <b>2001</b> , 97-98, 282-286	8.9	49	
170	Probing the Additional Capacity and Reaction Mechanism of the RuO2 Anode in Lithium Rechargeable Batteries. <i>ChemSusChem</i> , <b>2015</b> , 8, 2378-84	8.3	47	
169	Mesoporous transition metal dichalcogenide ME2 (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	
168	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	
167	In situ X-ray absorption and diffraction studies of carbon coated LiFe1/4Mn1/4Co1/4Ni1/4PO4 cathode during first charge. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 913-916	5.1	45	
166	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	
165	Thermal behavior and the decomposition mechanism of electrochemically delithiated Li1⊠NiO2. Journal of Power Sources, <b>2001</b> , 97-98, 321-325	8.9	43	
164	Oxygen Contribution on Li-Ion Intercalation-Deintercalation in LiAl[sub y]Co[sub 1][O[sub 2] Investigated by O K-Edge and Co L-Edge X-Ray Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, A1305	3.9	43	

163	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
162	In situ XRD studies of the structural changes of ZrO2-coated LiCoO2 during cycling and their effects on capacity retention in lithium batteries. <i>Journal of Power Sources</i> , <b>2006</b> , 163, 185-190	8.9	41
161	Discovering a Dual-Buffer Effect for Lithium Storage: Durable Nanostructured Ordered Mesoporous CoBn Intermetallic Electrodes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2800-2808	15.6	40
160	Exceptional Lithium Storage in a Co(OH) Anode: Hydride Formation. ACS Nano, 2018, 12, 2909-2921	16.7	39
159	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
158	Time-Resolved XRD Study on the Thermal Decomposition of Li[sub 1☒]Ni[sub 0.8]Co[sub 0.15]Al[sub 0.05]O[sub 2] Cathode Materials for Li-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , <b>2005</b> , 8, A83		39
157	Enhanced high-temperature cycling of Li2ODB2O3-coated spinel-structured LiNi0.5Mn1.5O4 cathode material for application to lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 601, 217-222	5.7	38
156	A study on the newly observed intermediate structures during the thermal decomposition of nickel-based layered cathode materials using time-resolved XRD. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 859-862	5.1	38
155	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
154	The phase transition behaviors of Li1\( \text{M} \text{n0.5Fe0.5PO4} \) 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
153	Study on structure and electrochemical properties of carbon-coated monoclinic Li3V2(PO4)3 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
152	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2902-2915	35.4	36
151	Characterization and Control of Irreversible Reaction in Li-Rich Cathode during the Initial Charge Process. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2018</b> , 10, 10804-10818	9.5	35
150	Nd2K2IrO7 and Sm2K2IrO7: iridium(VI) oxides prepared under ambient pressure. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 215-8	16.4	34
149	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
148	Structural complexity of layered-spinel composite electrodes for Li-ion batteries. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 1601-1616	2.5	33
147	Changes in electronic structure of the electrochemically Li-ion deintercalated LiNiO2 system investigated by soft X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , <b>2006</b> , 163, 234-237	8.9	33
146	Porous V2O5/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

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145	Investigation of the Structural Changes in Li[NiyMnyCo(1🏿y)]O2 (y = 0.05) upon Electrochemical Lithium Deintercalation Chemistry of Materials, <b>2010</b> , 22, 1209-1219	9.6	32	
144	Changes in electronic structure of the electrochemically Li-ion deintercalated LiMn2O4 system investigated by soft X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , <b>2003</b> , 119-121, 706-709	8.9	32	
143	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	
142	Comparative study of Li(Li1/3Ti5/3)O4 and Li(Ni1/2\Li2x/3Tix/3)Ti3/2O4 (x=1/3) anodes for Li rechargeable batteries. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 5914-5918	6.7	31	
141	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	
140	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	
139	Entangled Germanium Nanowires and Graphite Nanofibers for the Anode of Lithium-Ion Batteries. Journal of the Electrochemical Society, <b>2013</b> , 160, A112-A116	3.9	29	
138	In situ X-ray absorption spectroscopic investigation of the electrochemical conversion reactions of CuF2MoO3 nanocomposite. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 3029-3038	3.3	29	
137	Structural Studies on the Effects of ZrO[sub 2] Coating on LiCoO[sub 2] during Cycling Using In Situ X-Ray Diffraction Technique. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A2152	3.9	29	
136	Electronic Structure of the Electrochemically Delithiated Li[sub 1\(\mathbb{I}\)]FePO[sub 4] Electrodes Investigated by P K-edge X-Ray Absorption Spectroscopy. <i>Electrochemical and Solid-State Letters</i> , <b>2006</b> , 9, A415		28	
135	Stabilizing effects of Al-doping on Ni-rich LiNi0.80Co0.15Mn0.05O2 cathode for Li rechargeable batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 474, 228592	8.9	28	
134	A facile and surfactant-free synthesis of porous hollow EMnO2 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	
133	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	
132	Incorporation of PEDOT:PSS into SnO2/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, 13964-13	977	27	
131	A Mechanistic Study on the Improvement of the Thermal Stability of Delithiated Li[sub 1\( \mathbb{N}\)] NiO[sub 2] by Co Substitution for Ni. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, A1164	3.9	27	
130	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	
129	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	
128	Novel concept of pseudocapacitor using stabilized lithium metal powder and non-lithiated metal oxide electrodes in organic electrolyte. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1166-1169	5.1	26	

127	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, 10452-1045	6 <sup>6.7</sup>	26
126	Comparative study of bulk and nano-structured mesoporous SnO2 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
125	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
124	O3-type NaNi1/3Fe1/3Mn1/3O2 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
123	Comparative studies on C-coated and uncoated LiFePO4 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
122	Synthesis of LiAlyCo1IJO2 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
121	Hierarchical titania nanotubes with self-branched crystalline nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1581-7	9.5	24
120	Characterization of LiMn2O4-coated LiCoO2 film electrode prepared by electrostatic spray deposition. <i>Journal of Power Sources</i> , <b>2006</b> , 163, 207-210	8.9	24
119	A Study on the Thermal Behavior of Electrochemically Delithiated Li[sub 1⅓]NiO[sub 2]. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, A716	3.9	24
118	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
117	Fe3O4 nanoparticles encapsulated in one-dimensional Li4Ti5O12 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
116	Lithium-ion transport through a tailored disordered phase on the LiNi0.5 Mn1.5 O4 surface for high-power cathode materials. <i>ChemSusChem</i> , <b>2014</b> , 7, 2248-54	8.3	23
115	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
114	Comparative studies between oxygen-deficient LiMn2O4 and Al-doped LiMn2O4. <i>Journal of Power Sources</i> , <b>2005</b> , 146, 226-231	8.9	22
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