

Won-Sub Yoon

List of Publications by Year in descending order

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235
papers

13,964
citations

20759

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243
docs citations

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times ranked

12925
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Applications of Electrochemical Impedance Spectroscopy (EIS) for Lithium-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , 2020, 11, 1-13.	0.9	523
2	Electrochemical and Structural Properties of $x\text{Li}_2\text{MgO}_3 \cdot (1-x)\text{LiMn}_0.5\text{Ni}_0.5\text{O}_2$ Electrodes for Lithium Batteries (M = Ti, Mn, Zr; $0 \leq x \leq 0.3$). <i>Chemistry of Materials</i> , 2004, 16, 1996-2006.	3.2	481
3	Investigation of the Charge Compensation Mechanism on the Electrochemically Li-Ion Deintercalated $\text{Li}_{1-x}\text{Co}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Electrode System by Combination of Soft and Hard X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 17479-17487.	6.6	436
4	Exploring Anomalous Charge Storage in Anode Materials for Next-Generation Li Rechargeable Batteries. <i>Chemical Reviews</i> , 2020, 120, 6934-6976.	23.0	382
5	Sodium intercalation chemistry in graphite. <i>Energy and Environmental Science</i> , 2015, 8, 2963-2969.	15.6	369
6	Advances in the Cathode Materials for Lithium Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2578-2605.	7.2	357
7	Oxygen Contribution on Li-Ion Intercalation/Deintercalation in LiCoO_2 Investigated by O K-Edge and Co L-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2526-2532.	1.2	293
8	Cation Ordering in Layered $\text{O}_3 \text{Li}[\text{Ni}_x\text{Li}_{1/3-2x/3}\text{Mn}_{2/3-x/3}]\text{O}_2$ ($0 \leq x \leq 1/2$) Compounds. <i>Chemistry of Materials</i> , 2005, 17, 2386-2394.	3.2	283
9	Electrochemical properties of manganese oxide coated onto carbon nanotubes for energy-storage applications. <i>Journal of Power Sources</i> , 2008, 178, 483-489.	4.0	281
10	Understanding the Electrochemical Mechanism of the New Iron-Based Mixed-Phosphate $\text{Na}_4\text{Fe}_3(\text{PO}_4)_4(\text{P}_2\text{O}_7)$ in a Na Rechargeable Battery. <i>Chemistry of Materials</i> , 2013, 25, 3614-3622.	3.2	237
11	A comparative study on structural changes of $\text{LiCo}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$ and $\text{LiNi}_0.8\text{Co}_0.15\text{Al}_0.05\text{O}_2$ during first charge using in situ XRD. <i>Electrochemistry Communications</i> , 2006, 8, 1257-1262.	2.3	234
12	In Situ X-ray Absorption Spectroscopic Study on $\text{LiNi}_0.5\text{Mn}_0.5\text{O}_2$ Cathode Material during Electrochemical Cycling. <i>Chemistry of Materials</i> , 2003, 15, 3161-3169.	3.2	220
13	High-performance flexible lead-free nanocomposite piezoelectric nanogenerator for biomechanical energy harvesting and storage. <i>Nano Energy</i> , 2015, 15, 177-185.	8.2	200
14	Local Structure and Cation Ordering in O_3 Lithium Nickel Manganese Oxides with Stoichiometry $\text{Li}[\text{Ni}_x\text{Mn}_{(2-x)/3}\text{Li}_{(1-2x)/3}]\text{O}_2$. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A167.	2.2	195
15	X-ray absorption spectroscopy studies of nickel oxide thin film electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2002, 47, 3201-3209.	2.6	186
16	Electrodeposited manganese oxides on three-dimensional carbon nanotube substrate: Supercapacitive behaviour in aqueous and organic electrolytes. <i>Journal of Power Sources</i> , 2009, 188, 323-331.	4.0	173
17	Electrochemical performance and ex situ analysis of ZnMn_2O_4 nanowires as anode materials for lithium rechargeable batteries. <i>Nano Research</i> , 2011, 4, 505-510.	5.8	170
18	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> , 2002, 5, A263.	2.2	169

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19	New Insight into Ni-Rich Layered Structure for Next-Generation Li Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701788.	10.2	169
20	Pseudocapacitive properties of electrochemically prepared nickel oxides on 3-dimensional carbon nanotube film substrates. <i>Journal of Power Sources</i> , 2008, 182, 642-652.	4.0	166
21	Applications of Voltammetry in Lithium Ion Battery Research. <i>Journal of Electrochemical Science and Technology</i> , 2020, 11, 14-25.	0.9	166
22	Exceptional electrochemical performance of freestanding electrospun carbon nanofiber anodes containing ultrafine SnO _x particles. <i>Energy and Environmental Science</i> , 2012, 5, 9895.	15.6	165
23	Cation Ordering in Li[Ni _x Mn _x Co _(1-2x)] ₂ -Layered Cathode Materials: A Nuclear Magnetic Resonance (NMR), Pair Distribution Function, X-ray Absorption Spectroscopy, and Electrochemical Study. <i>Chemistry of Materials</i> , 2007, 19, 6277-6289.	3.2	161
24	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> , 2015, 3, 17154-17164.	5.2	135
25	Self-assembled porous MoO ₂ /graphene microspheres towards high performance anodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 275, 351-361.	4.0	133
26	Electrochemical Activity of Li in the Transition-Metal Sites of O ₃ Li[Li _{(1-2x)/3} Mn _{(2x)/3} Ni _x]O ₂ . <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A290.	2.2	132
27	A novel concept of hybrid capacitor based on manganese oxide materials. <i>Electrochemistry Communications</i> , 2007, 9, 2807-2811.	2.3	131
28	A New Strategy for High-Voltage Cathodes for Li-ion Batteries: Stoichiometric KVPO ₄ F. <i>Advanced Energy Materials</i> , 2018, 8, 1801591.	10.2	130
29	Evidence of reversible oxygen participation in anomalously high capacity Li- and Mn-rich cathodes for Li-ion batteries. <i>Nano Energy</i> , 2016, 21, 172-184.	8.2	127
30	Influence of carbon towards improved lithium storage properties of Li ₂ MnSiO ₄ cathodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 2470.	6.7	122
31	Understanding the Crystal Structure of Layered LiNi _{0.5} Mn _{0.5} O ₂ by Electron Diffraction and Powder Diffraction Simulation. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A155.	2.2	121
32	Carbon supported, Al doped-Li ₃ V ₂ (PO ₄) ₃ as a high rate cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 6556.	6.7	114
33	New Insight into the Reaction Mechanism for Exceptional Capacity of Ordered Mesoporous SnO ₂ Electrodes via Synchrotron-Based X-ray Analysis. <i>Chemistry of Materials</i> , 2014, 26, 6361-6370.	3.2	114
34	Discovery of abnormal lithium-storage sites in molybdenum dioxide electrodes. <i>Nature Communications</i> , 2016, 7, 11049.	5.8	112
35	Combined NMR and XAS Study on Local Environments and Electronic Structures of Electrochemically Li-Ion Deintercalated Li _(1-x) Co _{1/3} Ni _{1/3} Mn _{1/3} O ₂ Electrode System. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A53.	2.2	108
36	Electrochemical and In Situ Synchrotron XRD Studies on Al ₂ O ₃ -Coated LiCoO ₂ Cathode Material. <i>Journal of the Electrochemical Society</i> , 2004, 151, A1344.	1.3	108

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37	In situ X-ray diffraction studies of mixed $\text{LiMn}_2\text{O}_4/\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ composite cathode in Li-ion cells during charge/discharge cycling. <i>Journal of Power Sources</i> , 2009, 192, 652-659.	4.0	105
38	Nanostructured MgFe_2O_4 as anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7038-7041.	2.8	105
39	Stabilizing effects of Al-doping on Ni-rich $\text{LiNi}_0.80\text{Co}_0.15\text{Mn}_0.05\text{O}_2$ cathode for Li rechargeable batteries. <i>Journal of Power Sources</i> , 2020, 474, 228592.	4.0	105
40	Crystal structure changes of $\text{LiMn}_0.5\text{Ni}_0.5\text{O}_2$ cathode materials during charge and discharge studied by synchrotron based in situ XRD. <i>Electrochemistry Communications</i> , 2002, 4, 649-654.	2.3	101
41	In situ analyses for ion storage materials. <i>Chemical Society Reviews</i> , 2016, 45, 5717-5770.	18.7	101
42	Soft X-Ray Absorption Spectroscopic Study of a $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ Cathode during Charge. <i>Journal of the Electrochemical Society</i> , 2004, 151, A246.	1.3	95
43	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017, 2, .	19.8	94
44	Investigating the first-cycle irreversibility of lithium metal oxide cathodes for Li batteries. <i>Journal of Materials Science</i> , 2008, 43, 4701-4706.	1.7	92
45	Structural and Electrochemical Properties of $\text{LiAl}_y\text{Co}_{1-y}\text{O}_2$ Cathode for Li Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2023.	1.3	86
46	Electronic Structure and Chemistry of Iron-Based Metal Oxide Nanostructured Materials: A NEXAFS Investigation of BiFeO_3 , $\text{Bi}_2\text{Fe}_4\text{O}_9$, Fe_2O_3 , Fe_3O_4 , and Fe_3O_4 . <i>Journal of Physical Chemistry C</i> , 2008, 112, 10359-10369.	1.5	84
47	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> , 2001, 97-98, 308-312.	4.0	82
48	The Reaction Mechanism and Capacity Degradation Model in Lithium Insertion Organic Cathodes, $\text{Li}_2\text{C}_6\text{O}_6$, Using Combined Experimental and First Principle Studies. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3086-3092.	2.1	81
49	Electronic structural changes of the electrochemically Li-ion deintercalated $\text{LiNi}_0.8\text{Co}_0.15\text{Al}_0.05\text{O}_2$ cathode material investigated by X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2007, 174, 1015-1020.	4.0	77
50	The Fe K-edge X-ray absorption characteristics of $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ prepared by solid state reaction. <i>Materials Research Bulletin</i> , 2009, 44, 1397-1404.	2.7	77
51	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> , 2020, 13, 4406-4449.	15.6	77
52	Investigation of the Lithiation and Delithiation Conversion Mechanisms of Bismuth Fluoride Nanocomposites. <i>Journal of the Electrochemical Society</i> , 2006, 153, A799.	1.3	76
53	New electrolytes for lithium ion batteries using LiF salt and boron based anion receptors. <i>Journal of Power Sources</i> , 2008, 184, 517-521.	4.0	76
54	Structural changes and thermal stability of charged $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ cathode material for Li-ion batteries studied by time-resolved XRD. <i>Journal of Power Sources</i> , 2009, 189, 515-518.	4.0	74

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55	Synthesis of LiCoO ₂ using acrylic acid and its electrochemical properties for Li secondary batteries. Journal of Power Sources, 1999, 81-82, 517-523.	4.0	72
56	Preparation of LiCoPO ₄ and LiFePO ₄ coated LiCoPO ₄ materials with improved battery performance. Journal of Alloys and Compounds, 2010, 497, 321-324.	2.8	71
57	Structural study of the coating effect on the thermal stability of charged MgO-coated LiNi _{0.8} Co _{0.2} O ₂ cathodes investigated by in situ XRD. Journal of Power Sources, 2012, 217, 128-134.	4.0	68
58	Unveiling the Impact of Fe Incorporation on Intrinsic Performance of Reconstructed Water Oxidation Electrocatalyst. ACS Energy Letters, 2021, 6, 4345-4354.	8.8	67
59	⁶ Li MAS NMR and in situ X-ray studies of lithium nickel manganese oxides. Journal of Power Sources, 2003, 119-121, 649-653.	4.0	66
60	Nanoscale size effect of titania (anatase) nanotubes with uniform wall thickness as high performance anode for lithium-ion secondary battery. Journal of Power Sources, 2012, 204, 162-167.	4.0	65
61	Exceptional Lithium Storage in a Co(OH) ₂ Anode: Hydride Formation. ACS Nano, 2018, 12, 2909-2921.	7.3	64
62	Unveiling the Genesis and Effectiveness of Negative Fading in Nanostructured Iron Oxide Anode Materials for Lithium-Ion Batteries. ACS Nano, 2022, 16, 631-642.	7.3	64
63	O ₃ -type NaNi _{1/3} Fe _{1/3} Mn _{1/3} O ₂ layered cathode for Na-ion batteries: Structural evolution and redox mechanism upon Na (de) intercalation. Journal of Power Sources, 2019, 439, 227064.	4.0	63
64	Structural studies of the new carbon-coated silicon anode materials using synchrotron-based in situ XRD. Electrochemistry Communications, 2002, 4, 893-897.	2.3	62
65	First-cycle irreversibility of layered LiNiCoMn oxide cathode in Li-ion batteries. Electrochimica Acta, 2008, 54, 684-689.	2.6	62
66	Thermal stability of charged LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode for Li-ion batteries investigated by synchrotron based in situ X-ray diffraction. Journal of Alloys and Compounds, 2013, 562, 219-223.	2.8	62
67	Understanding Origin of Voltage Hysteresis in Conversion Reaction for Na Rechargeable Batteries: The Case of Cobalt Oxides. Advanced Functional Materials, 2016, 26, 5042-5050.	7.8	61
68	Destabilization of the surface structure of Ni-rich layered materials by water-washing process. Energy Storage Materials, 2022, 44, 441-451.	9.5	61
69	Tracking the Influence of Thermal Expansion and Oxygen Vacancies on the Thermal Stability of Ni-Rich Layered Cathode Materials. Advanced Science, 2020, 7, 1902413.	5.6	59
70	Studies of LiMn ₂ O ₄ Capacity Fading at Elevated Temperature Using In Situ Synchrotron X-Ray Diffraction. Journal of the Electrochemical Society, 2006, 153, A774.	1.3	58
71	Time-resolved XRD study on the thermal decomposition of nickel-based layered cathode materials for Li-ion batteries. Journal of Power Sources, 2006, 163, 219-222.	4.0	57
72	Nano-sized lithium manganese oxide dispersed on carbon nanotubes for energy storage applications. Electrochemistry Communications, 2009, 11, 1575-1578.	2.3	57

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73	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> , 2014, 4, 6827.	1.6	57
74	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> , 2018, 8, 2986.	1.6	56
75	Oxygen Contribution on Li-Ion Intercalation-Deintercalation in $\text{LiAl}_y\text{Co}_{1-y}\text{O}_2$ Investigated by O K-Edge and Co L-Edge X-Ray Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2002, 149, A1305.	1.3	52
76	Probing the Additional Capacity and Reaction Mechanism of the RuO_2 Anode in Lithium Rechargeable Batteries. <i>ChemSusChem</i> , 2015, 8, 2378-2384.	3.6	52
77	Mesoporous transition metal dichalcogenide ME_2 (M = Mo, W; E = S, Se) with 2-D layered crystallinity as anode materials for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 14253-14260.	1.7	52
78	Optimizing high voltage $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ cathode for achieving high rate sodium-ion batteries with long cycle life. <i>Chemical Engineering Journal</i> , 2021, 403, 126291.	6.6	51
79	Discovering a Dual Buffer Effect for Lithium Storage: Durable Nanostructured Ordered Mesoporous Co-Sn Intermetallic Electrodes. <i>Advanced Functional Materials</i> , 2016, 26, 2800-2808.	7.8	50
80	Electrochemical characterization of layered LiCoO_2 films prepared by electrostatic spray deposition. <i>Journal of Power Sources</i> , 2001, 97-98, 282-286.	4.0	49
81	In situ X-ray absorption and diffraction studies of carbon coated $\text{LiFe}_{1/4}\text{Mn}_{1/4}\text{Co}_{1/4}\text{Ni}_{1/4}\text{PO}_4$ cathode during first charge. <i>Electrochemistry Communications</i> , 2009, 11, 913-916.	2.3	49
82	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2016, 9, 2902-2915.	15.6	49
83	Ultrathin supercapacitor electrodes with high volumetric capacitance and stability using direct covalent-bonding between pseudocapacitive nanoparticles and conducting materials. <i>Nano Energy</i> , 2015, 12, 612-625.	8.2	48
84	Time-Resolved XRD Study on the Thermal Decomposition of $\text{Li}_{1-x}\text{Ni}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode Materials for Li-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A83.	2.2	46
85	In situ XRD studies of the structural changes of ZrO_2 -coated LiCoO_2 during cycling and their effects on capacity retention in lithium batteries. <i>Journal of Power Sources</i> , 2006, 163, 185-190.	4.0	45
86	The phase transition behaviors of $\text{Li}_{1-x}\text{Mn}_{0.5}\text{Fe}_{0.5}\text{PO}_4$ during lithium extraction studied by in situ X-ray absorption and diffraction techniques. <i>Electrochemistry Communications</i> , 2009, 11, 2023-2026.	2.3	45
87	Enhanced high-temperature cycling of $\text{Li}_2\text{O} \cdot 2\text{B}_2\text{O}_3$ -coated spinel-structured $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ cathode material for application to lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 601, 217-222.	2.8	45
88	Characterization and Control of Irreversible Reaction in Li-Rich Cathode during the Initial Charge Process. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10804-10818.	4.0	45
89	Thermal behavior and the decomposition mechanism of electrochemically delithiated $\text{Li}_{1-x}\text{NiO}_2$. <i>Journal of Power Sources</i> , 2001, 97-98, 321-325.	4.0	44
90	A biocompatible implant electrode capable of operating in body fluids for energy storage devices. <i>Nano Energy</i> , 2017, 34, 86-92.	8.2	44

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91	Hierarchical micro-lamella-structured 3D porous copper current collector coated with tin for advanced lithium-ion batteries. <i>Applied Surface Science</i> , 2017, 399, 132-138.	3.1	44
92	A facile and surfactant-free synthesis of porous hollow γ -MnO ₂ 3D nanoarchitectures for lithium ion batteries with superior performance. <i>Journal of Alloys and Compounds</i> , 2019, 778, 37-46.	2.8	44
93	Principles and Applications of Galvanostatic Intermittent Titration Technique for Lithium-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , 2022, 13, 19-31.	0.9	44
94	A Novel Silver Molybdenum Oxyfluoride Perovskite as a Cathode Material for Lithium Batteries. <i>Chemistry of Materials</i> , 2009, 21, 2139-2148.	3.2	43
95	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> , 2006, 8, 859-862.	2.3	42
96	Triggered reversible phase transformation between layered and spinel structure in manganese-based layered compounds. <i>Nature Communications</i> , 2019, 10, 3385.	5.8	42
97	Study on structure and electrochemical properties of carbon-coated monoclinic Li ₃ V ₂ (PO ₄) ₃ using synchrotron based in situ X-ray diffraction and absorption. <i>Journal of Alloys and Compounds</i> , 2013, 569, 76-81.	2.8	41
98	Phase Dynamics on Conversion-Reaction-Based Tin-Doped Ferrite Anode for Next-Generation Lithium Batteries. <i>ACS Nano</i> , 2019, 13, 5674-5685.	7.3	40
99	Changes in electronic structure of the electrochemically Li-ion deintercalated LiNiO ₂ system investigated by soft X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2006, 163, 234-237.	4.0	39
100	Nd ₂ K ₂ IrO ₇ and Sm ₂ K ₂ IrO ₇ : Iridium(VI) Oxides Prepared under Ambient Pressure. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 215-218.	7.2	39
101	Surface enriched graphene hollow spheres towards building ultra-high power sodium-ion capacitor with long durability. <i>Energy Storage Materials</i> , 2020, 25, 702-713.	9.5	39
102	<i>In Operando</i> Monitoring of the Pore Dynamics in Ordered Mesoporous Electrode Materials by Small Angle X-ray Scattering. <i>ACS Nano</i> , 2015, 9, 5470-5477.	7.3	38
103	Deciphering the thermal behavior of lithium rich cathode material by in situ X-ray diffraction technique. <i>Journal of Power Sources</i> , 2015, 285, 156-160.	4.0	38
104	Porous V ₂ O ₅ /RGO/CNT hierarchical architecture as a cathode material: Emphasis on the contribution of surface lithium storage. <i>Scientific Reports</i> , 2016, 6, 31275.	1.6	38
105	Investigation of the Structural Changes in Li[Ni _y Mn _{1-2y} Co(1-2y)]O ₂ (y = 0.05) upon Electrochemical Lithium Deintercalation. <i>Chemistry of Materials</i> , 2010, 22, 1209-1219.	3.2	37
106	From grass to battery anode: agricultural biomass hemp-derived carbon for lithium storage. <i>RSC Advances</i> , 2018, 8, 32231-32240.	1.7	37
107	Comparative study of bulk and nano-structured mesoporous SnO ₂ electrodes on the electrochemical performances for next generation Li rechargeable batteries. <i>Journal of Power Sources</i> , 2019, 413, 241-249.	4.0	37
108	Zr-doping effect on the capacity retention of LiNi _{0.5} Mn _{1.5} O ₄ cycled between 5.0 and 1.0 V: In situ synchrotron X-Ray diffraction study. <i>Journal of Power Sources</i> , 2017, 368, 1-10.	4.0	35

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109	Structural complexity of layered-spinel composite electrodes for Li-ion batteries. Journal of Materials Research, 2010, 25, 1601-1616.	1.2	34
110	Changes in electronic structure of the electrochemically Li-ion deintercalated LiMn ₂ O ₄ system investigated by soft X-ray absorption spectroscopy. Journal of Power Sources, 2003, 119-121, 706-709.	4.0	33
111	Comparative study of Li(Li _{1/3} Ti _{5/3})O ₄ and Li(Ni _{1/2} Li _{2/3} Ti _{3/2})Ti ₃ O ₄ (x= 1/3) anodes for Li rechargeable batteries. Electrochimica Acta, 2009, 54, 5914-5918.	2.6	32
112	In situ X-ray absorption spectroscopic investigation of the electrochemical conversion reactions of CuF ₂ @MoO ₃ nanocomposite. Journal of Solid State Chemistry, 2010, 183, 3029-3038.	1.4	32
113	Performance enhancement of membrane electrode assemblies with plasma etched polymer electrolyte membrane in PEM fuel cell. International Journal of Hydrogen Energy, 2010, 35, 10452-10456.	3.8	32
114	Entangled Germanium Nanowires and Graphite Nanofibers for the Anode of Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A112-A116.	1.3	31
115	Electronic Structure of the Electrochemically Delithiated Li _{1-x} FePO ₄ Electrodes Investigated by P K-edge X-Ray Absorption Spectroscopy. Electrochemical and Solid-State Letters, 2006, 9, A415.	2.2	30
116	Structural Studies on the Effects of ZrO ₂ Coating on LiCoO ₂ during Cycling Using In Situ X-Ray Diffraction Technique. Journal of the Electrochemical Society, 2006, 153, A2152.	1.3	30
117	Incorporation of PEDOT:PSS into SnO ₂ /reduced graphene oxide nanocomposite anodes for lithium-ion batteries to achieve ultra-high capacity and cyclic stability. RSC Advances, 2015, 5, 13964-13971.	1.7	30
118	Low Iridium Content Confined inside a Co ₃ O ₄ Hollow Sphere for Superior Acidic Water Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 16640-16650.	3.2	30
119	Understanding the structural phase transitions in lithium vanadium phosphate cathodes for lithium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 10331-10336.	5.2	29
120	Comparative studies between oxygen-deficient LiMn ₂ O ₄ and Al-doped LiMn ₂ O ₄ . Journal of Power Sources, 2005, 146, 226-231.	4.0	28
121	Novel concept of pseudocapacitor using stabilized lithium metal powder and non-lithiated metal oxide electrodes in organic electrolyte. Electrochemistry Communications, 2009, 11, 1166-1169.	2.3	28
122	Comparative studies on C-coated and uncoated LiFePO ₄ cycling at various rates and temperatures using synchrotron based in situ X-ray diffraction. Electrochimica Acta, 2011, 56, 1182-1189.	2.6	28
123	Fe ₃ O ₄ nanoparticles encapsulated in one-dimensional Li ₄ Ti ₅ O ₁₂ nanomatrix: An extremely reversible anode for long life and high capacity Li-ion batteries. Nano Energy, 2016, 19, 246-256.	8.2	28
124	Structural and Electrochemical Kinetic Properties of 0.5Li ₂ MnO ₃ @0.5LiCoO ₂ Cathode Materials with Different Li ₂ MnO ₃ Domain Sizes. Scientific Reports, 2019, 9, 427.	1.6	28
125	Enhancing the structural durability of Ni-rich layered materials by post-process: washing and heat-treatment. Journal of Materials Chemistry A, 2020, 8, 10206-10216.	5.2	28
126	Synthesis of LiAl _y Co _{1-y} O ₂ using acrylic acid and its electrochemical properties for Li rechargeable batteries. Journal of Power Sources, 2001, 97-98, 303-307.	4.0	27

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