

Neeraj Sharma

List of Publications by Year in descending order

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168
papers

6,714
citations

53751

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76872

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169
all docs

169
docs citations

169
times ranked

7825
citing authors

#	ARTICLE	IF	CITATIONS
1	An Initial Review of the Status of Electrode Materials for Potassium-ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602911.	10.2	854
2	High-Performance P2-Phase Na _{2/3} Mn _{0.8} Fe _{0.1} Ti _{0.1} O ₂ Cathode Material for Ambient-Temperature Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 106-116.	3.2	192
3	Variation in structure and Li ⁺ -ion migration in argyrodite-type Li ₆ PS ₅ X (X = Cl, Br, I) solid electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1807-1813.	1.2	176
4	Structural changes in a commercial lithium-ion battery during electrochemical cycling: An in situ neutron diffraction study. <i>Journal of Power Sources</i> , 2010, 195, 8258-8266.	4.0	165
5	Br-doped Li ₄ Ti ₅ O ₁₂ and Composite TiO ₂ Anodes for Li-ion Batteries: Synchrotron X-Ray and in situ Neutron Diffraction Studies. <i>Advanced Functional Materials</i> , 2011, 21, 3990-3997.	7.8	157
6	High voltage structural evolution and enhanced Na-ion diffusion in P2-Na _{2/3} Ni _{1/3} Mg _x Mn _{2/3} O ₂ (0 ≤ x ≤ 1) Ti _{0.0} Fe _{0.0} rgBT / O Environmental Science, 2018, 11, 1470-1479.	18.6	148
7	Direct Evidence of Concurrent Solid-Solution and Two-Phase Reactions and the Nonequilibrium Structural Evolution of LiFePO ₄ . <i>Journal of the American Chemical Society</i> , 2012, 134, 7867-7873.	6.6	135
8	Interplay between Electrochemistry and Phase Evolution of the P2-type Na _x (Fe _{1/2} Mn _{1/2})O ₂ Cathode for Use in Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 3150-3158.	3.2	121
9	Higher oxidation level in graphene oxide. <i>Optik</i> , 2017, 143, 115-124.	1.4	114
10	Electrochemical Na Extraction/Insertion of Na ₃ V ₂ O _{2x} (PO ₄) ₂ F ₃ (0 ≤ x ≤ 1). <i>Chemistry of Materials</i> , 2013, 25, 4917-4925.		112
11	Sodium Distribution and Reaction Mechanisms of a Na ₃ V ₂ O ₂ (PO ₄) ₂ F Electrode during Use in a Sodium-Ion Battery. <i>Chemistry of Materials</i> , 2014, 26, 3391-3402.	3.2	112
12	Formation and conductivity studies of lithium argyrodite solid electrolytes using in-situ neutron diffraction. <i>Solid State Ionics</i> , 2013, 230, 72-76.	1.3	105
13	Lithium Migration in Li ₄ Ti ₅ O ₁₂ Studied Using in Situ Neutron Powder Diffraction. <i>Chemistry of Materials</i> , 2014, 26, 2318-2326.	3.2	99
14	Rate Dependent Performance Related to Crystal Structure Evolution of Na _{0.67} Mn _{0.8} Mg _{0.2} O ₂ in a Sodium-Ion Battery. <i>Chemistry of Materials</i> , 2015, 27, 6976-6986.	3.2	97
15	The Origin of Capacity Fade in the Li ₂ MnO ₃ -LiM ₂ O ₂ (M = Ti, Fe, Ni, Co, Mn) Transmission X-ray Microscopy Study. <i>Journal of the American Chemical Society</i> , 2016, 138, 8824-8833.	6.6	96
16	Evaluation of undoped and M-doped TiO ₂ , where M = Sn, Fe, Ni/Nb, Zr, V, and Mn, for lithium-ion battery applications prepared by the molten-salt method. <i>RSC Advances</i> , 2015, 5, 29535-29544.	1.7	90
17	In Situ Neutron Diffraction Monitoring of Li ₇ La ₃ Zr ₂ O ₁₂ Formation: Toward a Rational Synthesis of Garnet Solid Electrolytes. <i>Chemistry of Materials</i> , 2015, 27, 2903-2910.	3.2	88
18	Synthetic, Structural, and Electrochemical Study of Monoclinic Na ₄ Ti ₅ O ₁₂ as a Sodium-Ion Battery Anode Material. <i>Chemistry of Materials</i> , 2014, 26, 7067-7072.	3.2	85

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19	Overcharging a lithium-ion battery: Effect on the Li_xC_6 negative electrode determined by in situ neutron diffraction. <i>Journal of Power Sources</i> , 2013, 244, 695-701.	4.0	79
20	Structural evolution of NASICON-type $\text{Li}_{1+x}\text{Al}_x\text{Ge}_{2x}(\text{PO}_4)_3$ using in situ synchrotron X-ray powder diffraction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7718-7726.	5.2	73
21	In-situ neutron diffraction study of the simultaneous structural evolution of a $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ cathode and a $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anode in a $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4 \parallel \text{Li}_4\text{Ti}_5\text{O}_{12}$ full cell. <i>Journal of Power Sources</i> , 2014, 246, 464-472.	4.0	70
22	Crystallographic Evolution of $\text{P}_2\text{Na}_{2/3}\text{Fe}_{0.4}\text{Mn}_{0.6}\text{O}_2$ Electrodes during Electrochemical Cycling. <i>Chemistry of Materials</i> , 2016, 28, 6342-6354.	3.2	69
23	The Unique Structural Evolution of the O_3 Phase $\text{Na}_{2/3}\text{Fe}_{2/3}\text{Mn}_{1/3}\text{O}_2$ during High Rate Charge/Discharge: A Sodium-Centred Perspective. <i>Advanced Functional Materials</i> , 2015, 25, 4994-5005.	7.8	66
24	On the dynamics of transition metal migration and its impact on the performance of layered oxides for sodium-ion batteries: NaFeO_2 as a case study. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15132-15146.	5.2	64
25	Vanadium Substitution of LiFePO_4 Cathode Materials To Enhance the Capacity of LiFePO_4 -Based Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24424-24429.	1.5	63
26	Size and Composition Effects in Sb-Carbon Nanocomposites for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30152-30164.	4.0	63
27	Sodium uptake in cell construction and subsequent <i>in operando</i> electrode behaviour of Prussian blue analogues, $\text{Fe}[\text{Fe}(\text{CN})_6]_x\text{H}_2\text{O}$ and $\text{FeCo}(\text{CN})_6$. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24178-24187.	1.3	62
28	Introducing a 0.2 V sodium-ion battery anode: The $\text{Na}_2\text{Ti}_3\text{O}_7$ to $\text{Na}_3\text{Ti}_3\text{O}_7$ pathway. <i>Electrochemistry Communications</i> , 2015, 61, 10-13.	2.3	61
29	In-situ neutron diffraction study of the MoS_2 anode using a custom-built Li-ion battery. <i>Solid State Ionics</i> , 2011, 199-200, 37-43.	1.3	60
30	Structural Evolution and High-Voltage Structural Stability of $\text{Li}(\text{Ni}_x\text{Mn}_y\text{Co}_z)\text{O}_2$ Electrodes. <i>Chemistry of Materials</i> , 2019, 31, 376-386.	3.2	60
31	In-Situ Powder Diffraction Studies of Electrode Materials in Rechargeable Batteries. <i>ChemSusChem</i> , 2015, 8, 2826-2853.	3.6	59
32	Structure-Dependent Electrochemical Evolution of a Mn-Rich $\text{P}_2\text{Na}_{2/3}\text{Fe}_{0.2}\text{Mn}_{0.8}\text{O}_2$ Na-Ion Battery Cathode. <i>Chemistry of Materials</i> , 2017, 29, 7416-7423.	3.2	58
33	Structural evolution of high energy density V^{3+}/V^{4+} mixed valent $\text{Na}_3\text{V}_2\text{O}_7(\text{PO}_4)_2\text{F}_3$ ($x = 0.8$) sodium vanadium fluorophosphate using <i>in situ</i> synchrotron X-ray powder diffraction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7766-7779.	5.2	57
34	Crystal chemistry of the Pmnb polymorph of $\text{Li}_2\text{MnSiO}_4$. <i>Journal of Solid State Chemistry</i> , 2012, 188, 32-37.	1.4	56
35	Moisture exposed layered oxide electrodes as Na-ion battery cathodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18963-18975.	5.2	54
36	In situ neutron powder diffraction studies of lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1849-1856.	1.2	52

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37	Current-dependent electrode lattice fluctuations and anode phase evolution in a lithium-ion battery investigated by in situ neutron diffraction. <i>Electrochimica Acta</i> , 2013, 101, 79-85.	2.6	51
38	Maricite NaFePO ₄ /C/graphene: a novel hybrid cathode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16616-16621.	5.2	50
39	Synthesis and Characterization of Li(Co _{0.5} Ni _{0.5})PO ₄ Cathode for Li-Ion Aqueous Battery Applications. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, A86.	2.2	49
40	Local structural changes in LiMn _{1.5} Ni _{0.5} O ₄ spinel cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 255, 439-449.	4.0	49
41	Antimony-carbon nanocomposites for potassium-ion batteries: Insight into the failure mechanism in electrodes and possible avenues to improve cyclic stability. <i>Journal of Power Sources</i> , 2019, 413, 476-484.	4.0	49
42	Synthesis, structure, and electrochemical performance of magnesium-substituted lithium manganese orthosilicate cathode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 197, 231-237.	4.0	48
43	Non-equilibrium Structural Evolution of the Lithium-Rich Li _{1+y} Mn ₂ O ₄ Cathode within a Battery. <i>Chemistry of Materials</i> , 2013, 25, 754-760.	3.2	48
44	Strategies for the Analysis of Graphite Electrode Function. <i>Advanced Energy Materials</i> , 2021, 11, 2102693.	10.2	47
45	Lithium Extraction/Insertion from/into LiCoPO ₄ in Aqueous Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 1899-1905.	1.8	46
46	Graphene and Selected Derivatives as Negative Electrodes in Sodium- and Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2015, 2, 600-610.	1.7	46
47	A simple electrochemical cell for in-situ fundamental structural analysis using synchrotron X-ray powder diffraction. <i>Journal of Power Sources</i> , 2013, 244, 109-114.	4.0	45
48	Time-Dependent in-Situ Neutron Diffraction Investigation of a Li(Co _{0.16} Mn _{1.84})O ₄ Cathode. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21473-21480.	1.5	44
49	TiO ₂ (B)/anatase hybrid nanowires with highly reversible electrochemical performance. <i>Electrochemistry Communications</i> , 2011, 13, 46-49.	2.3	42
50	A comprehensive picture of the current rate dependence of the structural evolution of P ₂ -Na _{2/3} Fe _{2/3} Mn _{1/3} O ₂ . <i>Journal of Materials Chemistry A</i> , 2015, 3, 21023-21038.	5.2	41
51	Hybrid Solid Polymer Electrolytes with Two-Dimensional Inorganic Nanofillers. <i>Chemistry - A European Journal</i> , 2018, 24, 18180-18203.	1.7	41
52	Activated Carbon from E-Waste Plastics as a Promising Anode for Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10310-10322.	3.2	41
53	Enhanced electrochemical properties of LiFePO ₄ by Mo-substitution and graphitic carbon-coating via a facile and fast microwave-assisted solid-state reaction. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3634.	1.3	40
54	TiO ₂ nanoparticles synthesized by the molten salt method as a dual functional material for dye-sensitized solar cells. <i>RSC Advances</i> , 2012, 2, 5123.	1.7	39

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55	Giant Magnetoelastic Effect at the Opening of a Spin-Gap in $\text{Ba}_3\text{Bi}_2\text{O}_9$. <i>Journal of the American Chemical Society</i> , 2012, 134, 3265-3270.	6.6	39
56	Preparation and electrochemical properties of high-capacity $\text{LiFePO}_4/\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ composite for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 246, 912-917.	4.0	39
57	In-situ Neutron Diffraction Study of a High Voltage $\text{Li}(\text{Ni}_{0.42}\text{Mn}_{0.42}\text{Co}_{0.16})\text{O}_2/\text{Graphite}$ Pouch Cell. <i>Electrochimica Acta</i> , 2015, 180, 234-240.	2.6	39
58	Structures, Phase Transitions, Hydration, and Ionic Conductivity of $\text{Ba}_4\text{Nb}_2\text{O}_9$. <i>Chemistry of Materials</i> , 2009, 21, 3853-3864.	3.2	38
59	In-Situ Nanoindentation Measurement of Local Mechanical Behavior of a Li-Ion Battery Cathode in Liquid Electrolyte. <i>Experimental Mechanics</i> , 2019, 59, 337-347.	1.1	38
60	Understanding Structure-Function Relationship in Hybrid $\text{Co}_3\text{O}_4/\text{Fe}_2\text{O}_3/\text{C}$ Lithium-Ion Battery Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20736-20744.	4.0	37
61	Structural evolution of mixed valent ($\text{V}^{3+}/\text{V}^{4+}$) and V^{4+} sodium vanadium fluorophosphates as cathodes in sodium-ion batteries: comparisons, overcharging and mid-term cycling. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23017-23027.	5.2	36
62	An Operando Mechanistic Evaluation of a Solar-Rechargeable Sodium-Ion Intercalation Battery. <i>Advanced Energy Materials</i> , 2017, 7, 1700545.	10.2	36
63	High Performance Composite Lithium-Rich Nickel Manganese Oxide Cathodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1856-A1862.	1.3	35
64	Evidence of Solid-Solution Reaction upon Lithium Insertion into Cryptomelane $\text{K}_{0.25}\text{Mn}_2\text{O}_4$ Material. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3976-3983.	1.5	35
65	$\text{YCa}_3(\text{VO})_3(\text{BO})_4$: A Kagomé Compound Based on Vanadium(III) with a Highly Frustrated Ground State. <i>Chemistry of Materials</i> , 2011, 23, 1315-1322.	3.2	33
66	Comparison of the so-called CGR and NCR cathodes in commercial lithium-ion batteries using <i>in situ</i> neutron powder diffraction. <i>Powder Diffraction</i> , 2014, 29, S35-S39.	0.4	32
67	Lithium Germanate (Li_2GeO_3): A High-Performance Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 16059-16063.	7.2	32
68	Crystal structures of orthorhombic, hexagonal, and cubic compounds of the $\text{Sm}(\text{x})\text{Yb}(2-\text{x})\text{TiO}_5$ series. <i>Journal of Solid State Chemistry</i> , 2014, 213, 182-192.	1.4	31
69	Fluorinated (Nano)Carbons: CF_x Electrodes and CF_x -Based Batteries. <i>Energy Technology</i> , 2021, 9, 2000605.	1.8	31
70	Crystal Structures and Phase Transitions in A-Site Deficient Perovskites $\text{Ln}_{1/3}\text{TaO}_3$. <i>Chemistry of Materials</i> , 2008, 20, 6666-6676.	3.2	30
71	Floating-zone growth of brownmillerite $\text{Sr}_2\text{Fe}_2\text{O}_5$ and the observation of a chain-ordered superstructure by single-crystal neutron diffraction. <i>Solid State Ionics</i> , 2012, 225, 432-436.	1.3	29
72	Probing the charged state of layered positive electrodes in sodium-ion batteries: reaction pathways, stability and opportunities. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24833-24867.	5.2	29

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73	A (3 + 3)-Dimensional $\text{Bi}_2\text{O}_3 \cdot \text{Nb}_2\text{O}_5$ Hypercubic Oxide-Ionic Conductor: Type II $\text{Bi}_2\text{O}_3 \cdot \text{Nb}_2\text{O}_5$. Journal of the American Chemical Society, 2013, 135, 6477-6484.	6.6	28
74	Real-time investigation of the structural evolution of electrodes in a commercial lithium-ion battery containing a V-added LiFePO_4 cathode using in-situ neutron powder diffraction. Journal of Power Sources, 2013, 244, 158-163.	4.0	28
75	Recycling lithium-ion batteries: adding value with multiple lives. Green Chemistry, 2020, 22, 2244-2254.	4.6	28
76	Characterization of an oxalate-phosphate-amine metal-organic framework (OPA-MOF) exhibiting properties suited for innovative applications in agriculture. Journal of Materials Science, 2016, 51, 9239-9252.	1.7	27
77	Structural evidence for Mg-doped LiFePO_4 electrode polarisation in commercial Li-ion batteries. Journal of Power Sources, 2018, 394, 1-8.	4.0	27
78	Sodium insertion/extraction from single-walled and multi-walled carbon nanotubes: The differences and similarities. Journal of Power Sources, 2016, 314, 102-108.	4.0	26
79	Dual Polymer/Liquid Electrolyte with BaTiO_3 Electrode for Magnesium Batteries. ACS Applied Energy Materials, 2020, 3, 5882-5892.	2.5	26
80	Preparation of $\text{Li}_{1.03}\text{Mn}_{1.97}\text{O}_4$ and $\text{Li}_{1.06}\text{Mn}_{1.94}\text{O}_4$ by the Polymer Precursor Method and X-ray, Neutron Diffraction and Electrochemical Studies. Journal of the Electrochemical Society, 2011, 158, A1231.	1.3	25
81	Expanding the Applications of the Ilmenite Mineral to the Preparation of Nanostructures: TiO_2 Nanorods and their Photocatalytic Properties in the Degradation of Oxalic Acid. Chemistry - A European Journal, 2013, 19, 1091-1096.	1.7	25
82	The NaMoO_4 Phase Diagram ($\text{Na}^{1+}/\text{Mo}^{2+}$) NaMoO_4 $\text{Na}^{1+}/\text{Mo}^{2+}$ NaMoO_4 $\text{Na}^{1+}/\text{Mo}^{2+}$	3.2	25
83	Electron microscopy and its role in advanced lithium-ion battery research. Sustainable Energy and Fuels, 2019, 3, 1623-1646.	2.5	25
84	Controlling Spin Switching with Anionic Supramolecular Frameworks. Chemistry of Materials, 2020, 32, 3229-3234.	3.2	25
85	Pulsed Laser Deposition-based Thin Film Microbatteries. Chemistry - an Asian Journal, 2020, 15, 1829-1847.	1.7	25
86	Towards a reliable Li-metal-free LiNO_3 -free Li-ion polysulphide full cell <i>via</i> parallel interface engineering. Energy and Environmental Science, 2018, 11, 2509-2520.	15.6	24
87	$\text{Na}_4\text{Co}_3(\text{PO}_4)_2\text{P}_2\text{O}_7$ through Correlative <i>Operando</i> X-ray Diffraction and Electrochemical Impedance Spectroscopy. Chemistry of Materials, 2019, 31, 5152-5159.	3.2	24
88	Structural evolution of electrodes in the NCR and CGR cathode-containing commercial lithium-ion batteries cycled between 3.0 and 4.5 V: An <i>operando</i> neutron powder-diffraction study. Journal of Materials Research, 2015, 30, 373-380.	1.2	23
89	<i>In Situ</i> Neutron Powder Diffraction of Li_6C_{60} for Hydrogen Storage. Journal of Physical Chemistry C, 2015, 119, 19715-19721.	1.5	23
90	Three-layer Aurivillius phases containing magnetic transition metal cations: $\text{Bi}_2\text{A}_x\text{Sr}_{2-x}(\text{Nb,Ta})_2\text{M}_2\text{O}_{12}$, $\text{M}=\text{Ru}^{4+}, \text{Ir}^{4+}, \text{Mn}^{4+}$, $x=0.5$. Journal of Solid State Chemistry, 2007, 180, 370-376.	1.4	22

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91	Nanostructured LiMnO_2 with Li_3PO_4 Integrated at the Atomic Scale for High-Energy Electrode Materials with Reversible Anionic Redox. ACS Central Science, 2020, 6, 2326-2338.	5.3	22
92	Rate and Composition Dependence on the Structural Electrochemical Relationships in $\text{P}_2\text{Na}_2\text{Fe}_1\text{Mn}_x\text{O}_2$ Positive Electrodes for Sodium-Ion Batteries. Chemistry of Materials, 2018, 30, 7503-7510.	3.2	21
93	High capacity spherical $\text{Li}[\text{Li}_{0.24}\text{Mn}_{0.55}\text{Co}_{0.14}\text{Ni}_{0.07}]\text{O}_2$ cathode material for lithium ion batteries. Solid State Ionics, 2013, 233, 12-19.	1.3	20
94	Correlating cycling history with structural evolution in commercial 26650 batteries using in operando neutron powder diffraction. Journal of Power Sources, 2017, 343, 446-457.	4.0	20
95	Elucidation of the high-voltage phase in the layered sodium ion battery cathode material $\text{P}_3\text{Na}_{0.5}\text{Ni}_{0.25}\text{Mn}_{0.75}\text{O}_2$. Journal of Materials Chemistry A, 2020, 8, 21151-21162.	5.2	20
96	In operando neutron diffraction study of the temperature and current rate-dependent phase evolution of LiFePO_4 in a commercial battery. Journal of Power Sources, 2017, 342, 562-569.	4.0	19
97	$\text{Sc}_{1.5}\text{Al}_{0.5}\text{W}_3\text{O}_{12}$ Exhibits Zero Thermal Expansion between 4 and 1400 K. Chemistry of Materials, 2021, 33, 3823-3831.	3.2	19
98	Discharge mechanism of the heat treated electrolytic manganese dioxide cathode in a primary Li/MnO_2 battery: An in-situ and ex-situ synchrotron X-ray diffraction study. Journal of Power Sources, 2014, 258, 155-163.	4.0	18
99	Anhydrous Calcium Oxalate Polymorphism: A Combined Computational and Synchrotron X-ray Diffraction Study. Crystal Growth and Design, 2016, 16, 5954-5965.	1.4	18
100	Mechanisms of Sodium Insertion/Extraction on the Surface of Defective Graphenes. ACS Applied Materials & Interfaces, 2017, 9, 431-438.	4.0	18
101	Biomass Derived High Areal and Specific Capacity Hard Carbon Anodes for Sodium-Ion Batteries. Energy & Fuels, 2021, 35, 1820-1830.	2.5	18
102	Carbon coated $\text{Na}_7\text{Fe}_7(\text{PO}_4)_6\text{F}_3$: A novel intercalation cathode for sodium-ion batteries. Journal of Power Sources, 2014, 271, 497-503.	4.0	17
103	$\text{Li}_2\text{MnSiO}_4$ cathodes modified by phosphorous substitution and the structural consequences. Solid State Ionics, 2014, 259, 29-39.	1.3	17
104	SmFeO_3 and Bi-doped SmFeO_3 perovskites as an alternative class of electrodes in lithium-ion batteries. CrystEngComm, 2018, 20, 6165-6172.	1.3	17
105	Higher permittivity of Ni-doped lead zirconate titanate, $\text{Pb}[(\text{Zr}_{0.52}\text{Ti}_{0.48})(1-x)\text{Ni}_x]\text{O}_3$, ceramics. Ceramics International, 2019, 45, 4398-4407.	2.3	17
106	Structure of the Naphthalene Dimer from Rare Gas Tagging. Journal of Physical Chemistry A, 2007, 111, 4211-4214.	1.1	15
107	X-ray and neutron diffraction studies of flux and hydrothermally grown nonlinear optical material $\text{KBe}_2\text{BO}_3\text{F}_2$. CrystEngComm, 2012, 14, 6079.	1.3	15
108	Capacity Enhancement of the Quenched Li-Ni-Mn-Co Oxide High-voltage Li-ion Battery Positive Electrode. Electrochimica Acta, 2017, 236, 10-17.	2.6	15

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109	Exploring the rate dependence of phase evolution in P2-type $\text{Na}_{2/3}\text{Mn}_{0.8}\text{Fe}_{0.1}\text{Ti}_{0.1}\text{O}_2$. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12115-12125.	5.2	15
110	The crystal structures and corresponding ion-irradiation response for the $\text{Tb}(x)\text{Yb}(2-x)\text{TiO}_5$ series. <i>Ceramics International</i> , 2018, 44, 511-519.	2.3	15
111	Kinetics of the Thermally-Induced Structural Rearrangement of Li_3MnO_2 . <i>Journal of Physical Chemistry C</i> , 2014, 118, 24257-24265.	1.5	14
112	High-Performance NaVO_3 with Mixed Cationic and Anionic Redox Reactions for Na-Ion Battery Applications. <i>Chemistry of Materials</i> , 2020, 32, 8836-8844.	3.2	14
113	Structure and crystal chemistry of fluorite-related $\text{Bi}_3\text{Mo}_7\text{O}_{28}$ from single crystal X-ray diffraction and ab initio calculations. <i>Journal of Solid State Chemistry</i> , 2009, 182, 1312-1318.	1.4	13
114	Structure of the $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anode during charge-discharge cycling. <i>Powder Diffraction</i> , 2014, 29, S59-S63.	0.4	13
115	The use of deuterated ethyl acetate in highly concentrated electrolyte as a low-cost solvent for in situ neutron diffraction measurements of Li-ion battery electrodes. <i>Electrochimica Acta</i> , 2015, 174, 417-423.	2.6	13
116	Comparison of the structural evolution of the O3 and P2 phases of $\text{Na}_{2/3}\text{Fe}_{2/3}\text{Mn}_{1/3}\text{O}_2$ during electrochemical cycling. <i>Electrochimica Acta</i> , 2016, 203, 189-197.	2.6	13
117	Electrochemical performance and structure of $\text{Al}_2\text{W}_3\text{Mo}_x\text{O}_{12}$. <i>CrystEngComm</i> , 2018, 20, 1352-1360.	1.3	13
118	Iron-Doped Sodium Vanadium Fluorophosphates: $\text{Na}_3\text{V}_2\text{O}_2\text{Fe}(\text{PO}_4)_2\text{F}$ ($x < 0.3$). <i>Inorganic Chemistry</i> , 2020, 59, 854-862.	1.9	13
119	Coexistence of ferroelectricity and magnetism in transition-metal-doped $n = 3$ Aurivillius phases. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 025215.	0.7	12
120	Using in situ synchrotron x-ray diffraction to study lithium- and sodium-ion batteries: A case study with an unconventional battery electrode (Gd_2TiO_5). <i>Journal of Materials Research</i> , 2015, 30, 381-389.	1.2	12
121	Understanding the Behavior of LiCoO_2 Cathodes at Extended Potentials in Ionic Liquid Alkyl Carbonate Hybrid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15630-15638.	1.5	12
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