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List of Publications by Year
in descending order

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44 papers	1,425 citations	394421 19 h-index	330143 37 g-index
44 all docs	44 docs citations	44 times ranked	1857 citing authors

#	Article	IF	Citations
1	Unlocking the origin of triggering hysteretic oxygen capacity in divalent species incorporated O-type sodium layered-oxide cathodes. Energy Storage Materials, 2022, 45, 432-441.	18.0	7
2	Enabling Stable and Nonhysteretic Oxygen Redox Capacity in Liâ€Excess Na Layered Oxides. Advanced Energy Materials, 2022, 12, .	19.5	18
3	Importance of Chemical Distortion on the Hysteretic Oxygen Capacity in Li-Excess Layered Oxides. ACS Applied Materials & Interfaces, 2022, 14, 9057-9065.	8.0	5
4	Enabling Stable and Nonhysteretic Oxygen Redox Capacity in Liâ€Excess Na Layered Oxides (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 1	19.5	0
5	Understanding Voltage Hysteresis for High-Energy-Density Liâ€“S Batteries. ACS Applied Energy Materials, 2022, 5, 5219-5226.	5.1	9
6	Determining Factors in Triggering Hysteretic Oxygen Capacities in Lithium-Excess Sodium Layered Oxides. ACS Applied Materials & Interfaces, 2022, 14, 19515-19523.	8.0	1
7	Theoretical understanding of oxygen stability in Mnâ€“Fe binary layered oxides for sodium-ion batteries. Journal of Materials Chemistry A, 2022, 10, 11101-11109.	10.3	2
8	Unified Picture of (Non)Hysteretic Oxygen Capacity in O3â€Type Sodium 3<i>d</i> Layered Oxides. Advanced Energy Materials, 2022, 12, .	19.5	5
9	Physicochemical Screen Effect of Li Ions in Oxygen Redox Cathodes for Advanced Sodium-Ion Batteries. Chemistry of Materials, 2022, 34, 5971-5979.	6.7	6
10	Extending nonhysteretic oxygen capacity in P2-type Ni-Mn binary Na oxides. Chemical Engineering Journal, 2022, 446, 137429.	12.7	6
11	Anionic Redox Reactions in Cathodes for Sodiumâ€Ion Batteries. ChemElectroChem, 2021, 8, 625-643.	3.4	22
12	Unlocking veiled oxygen redox in Na-based earth-abundant binary layered oxide. Journal of Materials Chemistry A, 2021, 9, 15179-15187.	10.3	10
13	Physicochemical Design Principles Enabling High-Energy and -Power Low-Cost Na Storage Materials. Journal of Physical Chemistry C, 2021, 125, 3305-3313.	3.1	6
14	Unlocking the Intrinsic Origin of the Reversible Oxygen Redox Reaction in Sodiumâ€Based Layered Oxides. ChemElectroChem, 2021, 8, 1464-1472.	3.4	14
15	Origin of reversible oxygen redox reactions in high energy density layered oxides. Cell Reports Physical Science, 2021, 2, 100508.	5.6	6
16	Intrinsic Origin of Nonhysteretic Oxygen Capacity in Conventional Na-Excess Layered Oxides. ACS Applied Materials & Interfaces, 2021, 13, 46620-46626.	8.0	5
17	Importance of metal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:mo>âˆ’</mml:mo></mml:math>oxygen bond for stable oxygen-redox reaction in Li-excess layered oxides. Energy Storage Materials, 2021, 42, 764-772.	18.0	13
18	Thermodynamics and Na kinetics in P2-type oxygen redox Mn-Ni binary layered oxides manipulated via Li substitution. Energy Storage Materials, 2021, 42, 97-108.	18.0	22

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19	Chemomechanics in Niâ€“Mn binary cathode for advanced sodium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 24290-24298.	10.3	6
20	Rational design of Ti-based oxygen redox layered oxides for advanced sodium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 11762-11770.	10.3	11
21	Unraveling divalent pillar effects for the prolonged cycling of high-energy-density cathodes. Journal of Materials Chemistry A, 2021, 9, 26820-26828.	10.3	5
22	Fundamental interplay between phase-transition kinetics and thermodynamics of manganese-based sodium layered oxides during cationic and anionic redox. Journal of Materials Chemistry A, 2020, 8, 21142-21150.	10.3	15
23	Uncovering the Structural Evolution in Na-Excess Layered Cathodes for Rational Use of an Anionic Redox Reaction. ACS Applied Materials & Interfaces, 2020, 12, 29203-29211.	8.0	9
24	Anionic Redox Reactions in Manganese-Based Binary Layered Oxides for Advanced Sodium-Ion Batteries. Chemistry of Materials, 2020, 32, 5541-5549.	6.7	30
25	Structural and Thermodynamic Understandings in Mnâ€Based Sodium Layered Oxides during Anionic Redox. Advanced Science, 2020, 7, 2001263.	11.2	38
26	Reversible Anionic Redox Activities in Conventional LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathodes. Angewandte Chemie, 2020, 132, 8759-8766.	2.0	15
27	Reversible Anionic Redox Activities in Conventional LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathodes. Angewandte Chemie - International Edition, 2020, 59, 8681-8688.	13.8	91
28	Chemomechanical Design Factors for High Performance in Manganese-Based Spinel Cathode Materials for Advanced Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 22789-22797.	8.0	15
29	Critical Role of Titanium in O3-Type Layered Cathode Materials for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 30894-30901.	8.0	50
30	Critical design factors for kinetically favorable P-based compounds toward alloying with Na ions for high-power sodium-ion batteries. Energy and Environmental Science, 2019, 12, 1326-1333.	30.8	58
31	Manganese based layered oxides with modulated electronic and thermodynamic properties for sodium ion batteries. Nature Communications, 2019, 10, 5203.	12.8	202
32	Rational design of Na(Li_{1/3}Mn_{1/2}Cr_{1/6})O₂ exhibiting cationâ€“anion-coupled redox reactions with superior electrochemical, thermodynamic, atomic, and chemomechanical properties for advanced sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 18036-18043.	10.3	19
33	Intrinsic Origins of Crack Generation in Ni-rich LiNi0.8Co0.1Mn0.1O2 Layered Oxide Cathode Material. Scientific Reports, 2017, 7, 39669.	3.3	225
34	Rational Design of Na(Li_{1/3}Mn_{2/3})O₂ Operated by Anionic Redox Reactions for Advanced Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1701788.	21.0	78
35	Hexacyanometallates for sodium-ion batteries: insights into higher redox potentials using d electronic spin configurations. Physical Chemistry Chemical Physics, 2017, 19, 10443-10452.	2.8	20
36	Cathodes: Rational Design of Na(Li_{1/3}Mn_{2/3})O₂ Operated by Anionic Redox Reactions for Advanced Sodiumâ€Ion Batteries (Adv. Mater. 33/2017). Advanced Materials, 2017, 29, .	21.0	12

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37	Mechanism of Oxygen Vacancy on Impeded Phase Transformation and Electrochemical Activation in Inactive Li₂MnO₃. ChemElectroChem, 2016, 3, 943-949.	3.4	44
38	Design of Surface Doping for Mitigating Transition Metal Dissolution in LiNi_{0.5}Mn_{1.5}O₄ Nanoparticles. ChemSusChem, 2016, 9, 2967-2973.	6.8	35
39	Phase Separation and d Electronic Orbitals on Cyclic Degradation in Liâ€“Mnâ€“O Compounds: First-Principles Multiscale Modeling and Experimental Observations. ACS Applied Materials & Interfaces, 2016, 8, 16631-16639.	8.0	22
40	Underlying mechanisms of the synergistic role of Li₂MnO₃ and LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ in high-Mn, Li-rich oxides. Physical Chemistry Chemical Physics, 2016, 18, 11411-11421.	2.8	22
41	Understanding of Surface Redox Behaviors of Li₂MnO₃ in Liâ€Ion Batteries: Firstâ€Principles Prediction and Experimental Validation. ChemSusChem, 2015, 8, 3255-3262.	6.8	31
42	The origins and mechanism of phase transformation in bulk Li₂MnO₃: first-principles calculations and experimental studies. Journal of Materials Chemistry A, 2015, 3, 7066-7076.	10.3	91
43	Anti-fluorite Li₆CoO₄as an alternative lithium source for lithium ion capacitors: an experimental and first principles study. Journal of Materials Chemistry A, 2015, 3, 12377-12385.	10.3	72
44	Design of Nickel-rich Layered Oxides Using <i>d</i> Electronic Donor for Redox Reactions. Chemistry of Materials, 2015, 27, 6450-6456.	6.7	52