List of Publications by Year in descending order

168 papers	16,854 citations	10373 72 h-index	15716 125 g-index
170 all docs	170 docs citations	170 times ranked	15285 citing authors

#	Article	IF	Citations
1	Momentum-resolved resonant inelastic soft X-ray scattering (qRIXS) endstation at the ALS. Journal of Electron Spectroscopy and Related Phenomena, 2022, 257, 146897.	0.8	8
2	Precisely quantifying bulk transition metal valence evolution in conventional battery electrode by inverse partial fluorescence yield. Journal of Energy Chemistry, 2022, 69, 363-368.	7.1	4
3	High-Voltage Reactivity and Long-Term Stability of Cation-Disordered Rocksalt Cathodes. Chemistry of Materials, 2022, 34, 1524-1532.	3.2	5
4	Another view of oxygen in cathodes for high energy batteries. Joule, 2022, 6, 946-949.	11.7	0
5	Exceptional Cycling Performance Enabled by Local Structural Rearrangements in Disordered Rocksalt Cathodes. Advanced Energy Materials, 2022, 12, .	10.2	15
6	Origin and regulation of oxygen redox instability in high-voltage battery cathodes. Nature Energy, 2022, 7, 808-817.	19.8	55
7	Highly reversible Li₂RuO₃ cathodes in sulfide-based all solid-state lithium batteries. Energy and Environmental Science, 2022, 15, 3470-3482.	15.6	17
8	Cation-disordered rocksalt-type high-entropy cathodes for Li-ion batteries. Nature Materials, 2021, 20, 214-221.	13.3	290
9	The Role of Metal Substitution in Tuning Anion Redox in Sodium Metal Layered Oxides Revealed by Xâ€Ray Spectroscopy and Theory. Angewandte Chemie, 2021, 133, 10975-10982.	1.6	10
10	The Role of Metal Substitution in Tuning Anion Redox in Sodium Metal Layered Oxides Revealed by Xâ€Ray Spectroscopy and Theory. Angewandte Chemie - International Edition, 2021, 60, 10880-10887.	7.2	32
11	Deciphering the Oxygen Absorption Preâ€edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. Energy and Environmental Materials, 2021, 4, 246-254.	7.3	56
12	Tailoring the Redox Reactions for Highâ€Capacity Cycling of Cationâ€Disordered Rocksalt Cathodes. Advanced Functional Materials, 2021, 31, 2008696.	7.8	23
13	Unlocking anionic redox activity in O3-type sodium 3d layered oxides via Li substitution. Nature Materials, 2021, 20, 353-361.	13.3	155
14	Could Irradiation Introduce Oxidized Oxygen Signals in Resonant Inelastic X-ray Scattering of Battery Electrodes?. Journal of Physical Chemistry Letters, 2021, 12, 1138-1143.	2.1	7
15	Revisiting the role of Zr doping in Ni-rich layered cathodes for lithium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 17415-17424.	5.2	56
16	Coulombically-stabilized oxygen hole polarons enable fully reversible oxygen redox. Energy and Environmental Science, 2021, 14, 4858-4867.	15.6	29
17	Electrochemical Utilization of Iron IV in the Li_{1.3}Fe_{0.4}Nb_{0.3}O₂ Disordered Rocksalt Cathode. Batteries and Supercaps, 2021, 4, 771-777.	2.4	6
18	Understanding the Structural Evolution of a Nickel Chalcogenide Electrocatalyst Surface for Water Oxidation. Energy & Fuels, 2021, 35, 4387-4403.	2.5	33

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19	Whither Mn Oxidation in Mn-Rich Alkali-Excess Cathodes?. ACS Energy Letters, 2021, 6, 1055-1064.	8.8	20
20	Utilizing Oxygen Redox in Layered Cathode Materials from Multiscale Perspective. Advanced Energy Materials, 2021, 11, 2003227.	10.2	39
21	Oxygen-redox reactions in LiCoO2 cathode without Oâ€“O bonding during charge-discharge. Joule, 2021, 5, 720-736.	11.7	56
22	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. Nature Catalysis, 2021, 4, 212-222.	16.1	266
23	Spectroscopic characterization of electronic structures of ultra-thin single crystal La0.7Sr0.3MnO3. Scientific Reports, 2021, 11, 5250.	1.6	10
24	Hierarchical nickel valence gradient stabilizes high-nickel content layered cathode materials. Nature Communications, 2021, 12, 2350.	5.8	59
25	Cycling mechanism of Li2MnO3: Liâ€“CO2Âbatteries and commonality on oxygen redox in cathode materials. Joule, 2021, 5, 975-997.	11.7	88
26	Layered-rocksalt intergrown cathode for high-capacity zero-strain battery operation. Nature Communications, 2021, 12, 2348.	5.8	43
27	In Situ/Operando (Soft) Xâ€‐ray Spectroscopy Study of Beyond Lithiumâ€‐ion Batteries. Energy and Environmental Materials, 2021, 4, 139-157.	7.3	26
28	Non-topotactic reactions enable high rate capability in Li-rich cathode materials. Nature Energy, 2021, 6, 706-714.	19.8	65
29	Interplay between Cation and Anion Redox in Ni-Based Disordered Rocksalt Cathodes. ACS Nano, 2021, 15, 13360-13369.	7.3	13
30	Distinct Oxygen Redox Activities in Li₂MO₃ (M = Mn, Ru, Ir). ACS Energy Letters, 2021, 6, 3417-3424.	8.8	33
31	Controlled Experiments and Optimized Theory of Absorption Spectra of Li Metal and Salts. ACS Applied Materials & Interfaces, 2021, 13, 45488-45495.	4.0	8
32	Trace Key Mechanistic Features of the Arsenite Sequestration Reaction with Nanoscale Zerovalent Iron. Journal of the American Chemical Society, 2021, 143, 16538-16548.	6.6	12
33	Uncommon Behavior of Li Doping Suppresses Oxygen Redox in P2â€‐Type Manganeseâ€‐Rich Sodium Cathodes. Advanced Materials, 2021, 33, e2107141.	11.1	34
34	Realizing continuous cation order-to-disorder tuning in a class of high-energy spinel-type Li-ion cathodes. Matter, 2021, 4, 3897-3916.	5.0	32
35	Interface Formation between CdS and Alkali Postdeposition-Treated Cu(In,Ga)Se₂ Thin-Film Solar Cell Absorbersâ€”Key To Understanding the Efficiency Gain. ACS Applied Materials & Interfaces, 2020, 12, 6688-6698.	4.0	5
36	Enabling Facile Anionic Kinetics through Cationic Redox Mediator in Li-Rich Layered Cathodes. ACS Energy Letters, 2020, 5, 3535-3543.	8.8	21

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37	Correlating the phase evolution and anionic redox in Co-Free Ni-Rich layered oxide cathodes. Nano Energy, 2020, 78, 105365.	8.2	36
38	Fluorination effect for stabilizing cationic and anionic redox activities in cation-disordered cathode materials. Energy Storage Materials, 2020, 32, 234-243.	9.5	42
39	Time- and strain-dependent nanoscale structural degradation in phase change epitaxial strontium ferrite films. Npj Materials Degradation, 2020, 4, .	2.6	11
40	High-power Mg batteries enabled by heterogeneous enolization redox chemistry and weakly coordinating electrolytes. Nature Energy, 2020, 5, 1043-1050.	19.8	205
41	Suppression of voltage-decay in Li₂MnO₃ cathode <i>via</i> reconstruction of layered-spinel coexisting phases. Journal of Materials Chemistry A, 2020, 8, 18687-18697.	5.2	10
42	Observation of Double Excitations in the Resonant Inelastic X-ray Scattering of Nitric Oxide. Journal of Physical Chemistry Letters, 2020, 11, 7476-7482.	2.1	10
43	Advances in soft X-ray RIXS for studying redox reaction states in batteries. Dalton Transactions, 2020, 49, 13519-13527.	1.6	19
44	Enabling Stable Highâ€Voltage LiCoO₂ Operation by Using Synergetic Interfacial Modification Strategy. Advanced Functional Materials, 2020, 30, 2004664.	7.8	119
45	Li-rich cathodes for rechargeable Li-based batteries: reaction mechanisms and advanced characterization techniques. Energy and Environmental Science, 2020, 13, 4450-4497.	15.6	219
46	Redox Mechanism in Na-Ion Battery Cathodes Probed by Advanced Soft X-Ray Spectroscopy. Frontiers in Chemistry, 2020, 8, 816.	1.8	12
47	Role of Redoxâ€Inactive Transitionâ€Metals in the Behavior of Cationâ€Disordered Rocksalt Cathodes. Small, 2020, 16, e2000656.	5.2	37
48	Design Rules for High-Valent Redox in Intercalation Electrodes. Joule, 2020, 4, 1369-1397.	11.7	80
49	An In Situ Formed Surface Coating Layer Enabling LiCoO₂ with Stable 4.6 V Highâ€Voltage Cycle Performances. Advanced Energy Materials, 2020, 10, 2001413.	10.2	201
50	Full Energy Range Resonant Inelastic X-ray Scattering of O₂ and CO₂: Direct Comparison with Oxygen Redox State in Batteries. Journal of Physical Chemistry Letters, 2020, 11, 2618-2623.	2.1	30
51	Ultrahigh power and energy density in partially ordered lithium-ion cathode materials. Nature Energy, 2020, 5, 213-221.	19.8	158
52	Amorphous nonstoichiometric oxides with tunable room-temperature ferromagnetism and electrical transport. Science Bulletin, 2020, 65, 1718-1725.	4.3	5
53	Reversible Anionic Redox Activities in Conventional LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathodes. Angewandte Chemie, 2020, 132, 8759-8766.	1.6	15
54	Dissociate lattice oxygen redox reactions from capacity and voltage drops of battery electrodes. Science Advances, 2020, 6, eaaw3871.	4.7	82

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55	How Bulk Sensitive is Hard X-ray Photoelectron Spectroscopy: Accounting for the Cathodeâ€“Electrolyte Interface when Addressing Oxygen Redox. Journal of Physical Chemistry Letters, 2020, 11, 2106-2112.	2.1	36
56	Identifying the anionic redox activity in cation-disordered Li_{1.25}Nb_{0.25}Fe_{0.50}O₂/C oxide cathodes for Li-ion batteries. Journal of Materials Chemistry A, 2020, 8, 5115-5127.	5.2	32
57	Quantifying the Capacity Contributions during Activation of Li₂MnO₃. ACS Energy Letters, 2020, 5, 634-641.	8.8	105
58	Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. Nature Materials, 2020, 19, 419-427.	13.3	328
59	Tuning Oxygen Redox Reaction through the Inductive Effect with Proton Insertion in Li-Rich Oxides. ACS Applied Materials & Interfaces, 2020, 12, 7277-7284.	4.0	33
60	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.	7.2	91
61	Interfacial properties in energy storage systems studied by soft x-ray absorption spectroscopy and resonant inelastic x-ray scattering. Journal of Chemical Physics, 2020, 152, 140901.	1.2	13
62	Extended Interfacial Stability through Simple Acid Rinsing in a Li-Rich Oxide Cathode Material. Journal of the American Chemical Society, 2020, 142, 8522-8531.	6.6	88
63	Negligible voltage hysteresis with strong anionic redox in conventional battery electrode. Nano Energy, 2020, 74, 104831.	8.2	72
64	A design of resonant inelastic X-ray scattering (RIXS) spectrometer for spatial- and time-resolved spectroscopy. Journal of Synchrotron Radiation, 2020, 27, 695-707.	1.0	10
65	Surface-to-Bulk Redox Coupling through Thermally Driven Li Redistribution in Li- and Mn-Rich Layered Cathode Materials. Journal of the American Chemical Society, 2019, 141, 12079-12086.	6.6	47
66	Revisiting the charge compensation mechanisms in LiNi_{0.8}Co_{0.2âˆ’y}Al_yO₂ systems. Materials Horizons, 2019, 6, 2112-2123.	6.4	62
67	Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. Nature Communications, 2019, 10, 4975.	5.8	75
68	Unraveling the Cationic and Anionic Redox Reactions in a Conventional Layered Oxide Cathode. ACS Energy Letters, 2019, 4, 2836-2842.	8.8	111
69	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. Nature Energy, 2019, 4, 977-987.	19.8	123
70	Short Oâ€“O separation in layered oxide Na _{0.67} CoO ₂ enables an ultrafast oxygen evolution reaction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23473-23479.	3.3	52
71	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithiumâ€Rich Cathode Oxides. Angewandte Chemie - International Edition, 2019, 58, 4323-4327.	7.2	114
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73	Metalâ€“oxygen decoordination stabilizes anion redox in Li-rich oxides. Nature Materials, 2019, 18, 256-265.	13.3	280
74	Nearâ€Surface [Ga]/([In]+[Ga]) Composition in Cu(In,Ga)Se 2 Thinâ€Film Solar Cell Absorbers: An Overlooked Material Feature. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800856.	0.8	6
75	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6â€‰V. Nature Energy, 2019, 4, 594-603.	19.8	572
76	Distinction between Intrinsic and X-ray-Induced Oxidized Oxygen States in Li-Rich 3d Layered Oxides and LiAlO₂. Journal of Physical Chemistry C, 2019, 123, 13201-13207.	1.5	33
77	Cascade anchoring strategy for general mass production of high-loading single-atomic metal-nitrogen catalysts. Nature Communications, 2019, 10, 1278.	5.8	591
78	Phase Control on Surface for the Stabilization of High Energy Cathode Materials of Lithium Ion Batteries. Journal of the American Chemical Society, 2019, 141, 4900-4907.	6.6	83
79	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO₂ Batteries. Chemistry of Materials, 2019, 31, 2036-2047.	3.2	195
80	P2-type Na_{2/3}Ni_{1/3}Mn_{2/3}O₂ Cathode Material with Excellent Rate and Cycling Performance for Sodium-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A3980-A3986.	1.3	34
81	High Reversibility of Lattice Oxygen Redox Quantified by Direct Bulk Probes of Both Anionic and Cationic Redox Reactions. Joule, 2019, 3, 518-541.	11.7	225
82	Fingerprint Oxygen Redox Reactions in Batteries through High-Efficiency Mapping of Resonant Inelastic X-ray Scattering. Condensed Matter, 2019, 4, 5.	0.8	44
83	Monovalent manganese based anodes and co-solvent electrolyte for stable low-cost high-rate sodium-ion batteries. Nature Communications, 2018, 9, 861.	5.8	84
84	Elucidating anionic oxygen activity in lithium-rich layered oxides. Nature Communications, 2018, 9, 947.	5.8	241
85	Anionic and cationic redox and interfaces in batteries: Advances from soft X-ray absorption spectroscopy to resonant inelastic scattering. Journal of Power Sources, 2018, 389, 188-197.	4.0	183
86	Evolution of the Electrodeâ€“Electrolyte Interface of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Electrodes Due to Electrochemical and Thermal Stress. Chemistry of Materials, 2018, 30, 958-969.	3.2	71
87	Mussel-Inspired Conductive Polymer Binder for Si-Alloy Anode in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5440-5446.	4.0	90
88	Breathing and oscillating growth of solid-electrolyte-interphase upon electrochemical cycling. Chemical Communications, 2018, 54, 814-817.	2.2	47
89	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	1.5	106
90	Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. Joule, 2018, 2, 125-140.	11.7	311

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93	Mechanism of Exact Transition between Cationic and Anionic Redox Activities in Cathode Material Li₂FeSiO₄. Journal of Physical Chemistry Letters, 2018, 9, 6262-6268.	2.1	24
94	Spectroscopic Signature of Oxidized Oxygen States in Peroxides. Journal of Physical Chemistry Letters, 2018, 9, 6378-6384.	2.1	80
95	Design principles for high transition metal capacity in disordered rocksalt Li-ion cathodes. Energy and Environmental Science, 2018, 11, 2159-2171.	15.6	123
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97	Oxygen release and oxygen redox. Nature Energy, 2018, 3, 619-620.	19.8	53
98	Microbial Interactions With Dissolved Organic Matter Drive Carbon Dynamics and Community Succession. Frontiers in Microbiology, 2018, 9, 1234.	1.5	107
99	Photocharging and Band Gap Narrowing Effects on the Performance of Plasmonic Photoelectrodes in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 31374-31383.	4.0	20
100	Elemental-sensitive Detection of the Chemistry in Batteries through Soft X-ray Absorption Spectroscopy and Resonant Inelastic X-ray Scattering. Journal of Visualized Experiments, 2018, , .	0.2	10
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103	Valence Electronic Structure of Li₂O₂, Li₂O, Li₂CO₃, and LiOH Probed by Soft X-ray Emission Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 5460-5466.	1.5	13
104	High-efficiency <i>in situ</i> resonant inelastic x-ray scattering (iRIXS) endstation at the Advanced Light Source. Review of Scientific Instruments, 2017, 88, 033106.	0.6	107
105	Interactions at the electrode-electrolyte interfaces in batteries studied by quasi-in-situ soft x-ray absorption spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2017, 221, 58-64.	0.8	6
106	Electric-field control of tri-state phase transformation with a selective dual-ion switch. Nature, 2017, 546, 124-128.	13.7	551
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108	Effect of excess lithium in LiMn2O4 and Li1.15Mn1.85O4 electrodes revealed by quantitative analysis of soft X-ray absorption spectroscopy. Applied Physics Letters, 2017, 110, .	1.5	21

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109	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. Chemical Reviews, 2017, 117, 13123-13186.	23.0	390
110	Role of Superexchange Interaction on Tuning of Ni/Li Disordering in Layered Li(Ni_{<i>x</i>}Mn_{<i>y</i>}Co_{<i>z</i>})O₂. Journal of Physical Chemistry Letters, 2017, 8, 5537-5542.	2.1	125
111	Mitigating oxygen loss to improve the cycling performance of high capacity cation-disordered cathode materials. Nature Communications, 2017, 8, 981.	5.8	197
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114	Coupling between oxygen redox and cation migration explains unusual electrochemistry in lithium-rich layered oxides. Nature Communications, 2017, 8, 2091.	5.8	469
115	Modification of Transition-Metal Redox by Interstitial Water in Hexacyanometalate Electrodes for Sodium-Ion Batteries. Journal of the American Chemical Society, 2017, 139, 18358-18364.	6.6	102
116	Charge-transfer-energy-dependent oxygen evolution reaction mechanisms for perovskite oxides. Energy and Environmental Science, 2017, 10, 2190-2200.	15.6	401
117	Transition metal redox and Mn disproportional reaction in LiMn0.5Fe0.5PO4 electrodes cycled with aqueous electrolyte. Applied Physics Letters, 2016, 109, .	1.5	13
118	Effect of Chromium and Niobium Doping on the Morphology and Electrochemical Performance of High-Voltage Spinel LiNi_{0.5}Mn_{1.5}O₄ Cathode Material. ACS Applied Materials & Interfaces, 2016, 8, 9116-9124.	4.0	78
119	Towards efficient time-resolved X-ray absorption studies of electron dynamics at photocatalytic interfaces. Faraday Discussions, 2016, 194, 659-682.	1.6	16
120	Improving the NO_x decomposition and storage activity through co-incorporating ammonium and copper ions into Mg/Al hydrotalcites. RSC Advances, 2016, 6, 45127-45134.	1.7	4
121	Quantitative probe of the transition metal redox in battery electrodes through soft x-ray absorption spectroscopy. Journal Physics D: Applied Physics, 2016, 49, 413003.	1.3	90
122	Atomicâ€Scale Origin of Longâ€Term Stability and High Performance of <i>p</i>â€GaN Nanowire Arrays for Photocatalytic Overall Pure Water Splitting. Advanced Materials, 2016, 28, 8388-8397.	11.1	106
123	Bivalence Mn5O8 with hydroxylated interphase for high-voltage aqueous sodium-ion storage. Nature Communications, 2016, 7, 13370.	5.8	109
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125	Tuning Cu dopant of Zn0.5Cd0.5S nanocrystals enables high-performance photocatalytic H2 evolution from water splitting under visible-light irradiation. Nano Energy, 2016, 26, 405-416.	8.2	78
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128	In Situ Formation of a Cathodeâ€“Electrolyte Interface with Enhanced Stability by Titanium Substitution for High Voltage Spinel Lithiumâ€Ion Batteries. Advanced Materials Interfaces, 2015, 2, 1500109.	1.9	65
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146	Depolarized and Fully Active Cathode Based on Li(Ni_{0.5}Co_{0.2}Mn_{0.3})O₂ Embedded in Carbon Nanotube Network for Advanced Batteries. Nano Letters, 2014, 14, 4700-4706.	4.5	95
147	High-Capacity, Aliovalently Doped Olivine LiMn_{1â€“3<i>x</i>/2}V_{<i>x</i>}â–¡_{<i>x</i>/2}PO₄ Cathodes without Carbon Coating. Chemistry of Materials, 2014, 26, 3018-3026.	3.2	37
148	Experiments and Theory of In situ and Operando Soft X-ray Spectroscopy for Energy Storage. Synchrotron Radiation News, 2014, 27, 4-13.	0.2	11
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