Wanli L Yang

List of Publications by Year
in descending order

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		6233	10424
339	23,100	80	139
papers	citations	h-index	g-index

355	355	355	20921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cascade anchoring strategy for general mass production of high-loading single-atomic metal-nitrogen catalysts. Nature Communications, 2019, 10, 1278.	5.8	591
2	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6â€‰V. Nature Energy, 2019, 4, 594-603.	19.8	572
3	Rhombohedral Prussian White as Cathode for Rechargeable Sodium-Ion Batteries. Journal of the American Chemical Society, 2015, 137, 2548-2554.	6.6	552
4	Electric-field control of tri-state phase transformation with a selective dual-ion switch. Nature, 2017, 546, 124-128.	13.7	551
5	Polymers with Tailored Electronic Structure for High Capacity Lithium Battery Electrodes. Advanced Materials, 2011, 23, 4679-4683.	11.1	505
6	Coupling between oxygen redox and cation migration explains unusual electrochemistry in lithium-rich layered oxides. Nature Communications, 2017, 8, 2091.	5.8	469
7	The origin of high electrolyteâ€“electrode interfacial resistances in lithium cells containing garnet type solid electrolytes. Physical Chemistry Chemical Physics, 2014, 16, 18294-18300.	1.3	431
8	Charge-transfer-energy-dependent oxygen evolution reaction mechanisms for perovskite oxides. Energy and Environmental Science, 2017, 10, 2190-2200.	15.6	401
9	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. Chemical Reviews, 2017, 117, 13123-13186.	23.0	390
10	How Solid-Electrolyte Interphase Forms in Aqueous Electrolytes. Journal of the American Chemical Society, 2017, 139, 18670-18680.	6.6	365
11	Estimating Hybridization of Transition Metal and Oxygen States in Perovskites from O K-edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 1856-1863.	1.5	339
12	Toward an Ideal Polymer Binder Design for High-Capacity Battery Anodes. Journal of the American Chemical Society, 2013, 135, 12048-12056.	6.6	332
13	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
14	Ti-substituted tunnel-type Na0.44MnO2 oxide as a negative electrode for aqueous sodium-ion batteries. Nature Communications, 2015, 6, 6401.	5.8	316
15	Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. Joule, 2018, 2, 125-140.	11.7	311
16	Universal nodal Fermi velocity. Nature, 2003, 423, 398-398.	13.7	291
17	Cation-disordered rocksalt-type high-entropy cathodes for Li-ion batteries. Nature Materials, 2021, 20, 214-221.	13.3	290
18	Metalâ€“oxygen decoordination stabilizes anion redox in Li-rich oxides. Nature Materials, 2019, 18, 256-265.	13.3	280

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19	Metallic Behavior of Lightly DopedLa2â^'xSrxCuO4with a Fermi Surface Forming an Arc. Physical Review Letters, 2003, 91, 027001.	2.9	275
20	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. Nature Catalysis, 2021, 4, 212-222.	16.1	266
21	Monochromatic Electron Photoemission from Diamondoid Monolayers. Science, 2007, 316, 1460-1462.	6.0	248
22	Elucidating anionic oxygen activity in lithium-rich layered oxides. Nature Communications, 2018, 9, 947.	5.8	241
23	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
24	Nodal quasiparticle in pseudogapped colossal magnetoresistive manganites. Nature, 2005, 438, 474-478.	13.7	223
25	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
26	Distinct charge dynamics in battery electrodes revealed by in situ and operando soft X-ray spectroscopy. Nature Communications, 2013, 4, 2568.	5.8	211
27	Systematic doping evolution of the underlying Fermi surface ofLa2â^'xSrxCuO4. Physical Review B, 2006, 74, .	1.1	208
28	High-power Mg batteries enabled by heterogeneous enolization redox chemistry and weakly coordinating electrolytes. Nature Energy, 2020, 5, 1043-1050.	19.8	205
29	Side-Chain Conducting and Phase-Separated Polymeric Binders for High-Performance Silicon Anodes in Lithium-Ion Batteries. Journal of the American Chemical Society, 2015, 137, 2565-2571.	6.6	203
30	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
31	Mitigating oxygen loss to improve the cycling performance of high capacity cation-disordered cathode materials. Nature Communications, 2017, 8, 981.	5.8	197
32	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO₂ Batteries. Chemistry of Materials, 2019, 31, 2036-2047.	3.2	195
33	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
34	Cliff-like conduction band offset and KCN-induced recombination barrier enhancement at the CdS/Cu2ZnSnS4 thin-film solar cell heterojunction. Applied Physics Letters, 2011, 99, .	1.5	181
35	Manganeseâ€“cobalt hexacyanoferrate cathodes for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 4211-4223.	5.2	180
36	Evidence for weak electronic correlations in iron pnictides. Physical Review B, 2009, 80, .	1.1	176

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37	Naâ€Ion Intercalation and Charge Storage Mechanism in 2D Vanadium Carbide. Advanced Energy Materials, 2017, 7, 1700959.	10.2	168
38	Enhancing the High-Voltage Cycling Performance of LiNi_{0.5}Mn_{0.3}Co_{0.2}O₂ by Retarding Its Interfacial Reaction with an Electrolyte by Atomic-Layer-Deposited Al₂O₃. ACS Applied Materials & Interfaces, 2015, 7, 25105-25112.	4.0	158
39	Ultrahigh power and energy density in partially ordered lithium-ion cathode materials. Nature Energy, 2020, 5, 213-221.	19.8	158
40	Spectroscopic fingerprints of valence and spin states in manganese oxides and fluorides. Current Applied Physics, 2013, 13, 544-548.	1.1	157
41	Multiple Bosonic Mode Coupling in the Electron Self-Energy of(La2â^'xSrx)CuO4. Physical Review Letters, 2005, 95, 117001.	2.9	156
42	Unlocking anionic redox activity in O3-type sodium 3d layered oxides via Li substitution. Nature Materials, 2021, 20, 353-361.	13.3	155
43	Angle-resolved photoemission study of the evolution of band structure and charge density wave properties in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mrow><mml:mtext>Te</mml:mtext></mml:mrow><mml:mn>3</	1.1	153
44	Phase Transformation and Lithiation Effect on Electronic Structure of Li_xFePO₄: An In-Depth Study by Soft X-ray and Simulations. Journal of the American Chemical Society, 2012, 134, 13708-13715.	6.6	136
45	Fermi Surface Reconstruction in the CDW State ofCeTe3Observed by Photoemission. Physical Review Letters, 2004, 93, 126405.	2.9	130
46	Soft X-Ray Irradiation Effects of Li2O2, Li2CO3 and Li2O Revealed by Absorption Spectroscopy. PLoS ONE, 2012, 7, e49182.	1.1	128
47	Effect of Manganese Contamination on the Solid-Electrolyte-Interphase Properties in Li-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A1099-A1107.	1.3	125
48	Direct Experimental Probe of the Ni(II)/Ni(III)/Ni(IV) Redox Evolution in LiNi_{0.5}Mn_{1.5}O₄ Electrodes. Journal of Physical Chemistry C, 2015, 119, 27228-27233.	1.5	125
49	Role of Superexchange Interaction on Tuning of Ni/Li Disordering in Layered Li(Ni_xMn_yCo_z)O₂. Journal of Physical Chemistry Letters, 2017, 8, 5537-5542.	2.1	125
50	Hierarchy of multiple many-body interaction scales in high-temperature superconductors. Physical Review B, 2007, 75, .	1.1	124
51	Recent Progress on Synchrotronâ€Based Inâ€Situ Soft Xâ€ray Spectroscopy for Energy Materials. Advanced Materials, 2014, 26, 7710-7729.	11.1	123
52	Design principles for high transition metal capacity in disordered rocksalt Li-ion cathodes. Energy and Environmental Science, 2018, 11, 2159-2171.	15.6	123
53	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. Nature Energy, 2019, 4, 977-987.	19.8	123
54	Conductive Polymer Binder for High-Tap-Density Nanosilicon Material for Lithium-Ion Battery Negative Electrode Application. Nano Letters, 2015, 15, 7927-7932.	4.5	121

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55	Enabling Stable Highâ€Voltage LiCoO₂ Operation by Using Synergetic Interfacial Modification Strategy. Advanced Functional Materials, 2020, 30, 2004664.	7.8	119
56	Dichotomy between Nodal and Antinodal Quasiparticles in Underdoped(La2â^'xSrx)CuO4Superconductors. Physical Review Letters, 2004, 92, 187001.	2.9	118
57	Reducing Exciton Binding Energy by Increasing Thin Film Permittivity: An Effective Approach To Enhance Exciton Separation Efficiency in Organic Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 10105-10110.	4.0	116
58	Space charge effect and mirror charge effect in photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2005, 142, 27-38.	0.8	115
59	Direct evidence of gradient Mn(II) evolution at charged states in LiNi0.5Mn1.5O4 electrodes with capacity fading. Journal of Power Sources, 2015, 273, 1120-1126.	4.0	115
60	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
61	Unraveling the Cationic and Anionic Redox Reactions in a Conventional Layered Oxide Cathode. ACS Energy Letters, 2019, 4, 2836-2842.	8.8	111
62	Bivalence Mn5O8 with hydroxylated interphase for high-voltage aqueous sodium-ion storage. Nature Communications, 2016, 7, 13370.	5.8	109
63	Revealing and suppressing surface Mn(II) formation of Na0.44MnO2 electrodes for Na-ion batteries. Nano Energy, 2015, 16, 186-195.	8.2	107
64	High-efficiency in situ resonant inelastic x-ray scattering (iRIXS) endstation at the Advanced Light Source. Review of Scientific Instruments, 2017, 88, 033106.	0.6	107
65	Microbial Interactions With Dissolved Organic Matter Drive Carbon Dynamics and Community Succession. Frontiers in Microbiology, 2018, 9, 1234.	1.5	107
66	Atomicâ€Scale Origin of Longâ€Term Stability and High Performance of pâ€GaN Nanowire Arrays for Photocatalytic Overall Pure Water Splitting. Advanced Materials, 2016, 28, 8388-8397.	11.1	106
67	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	1.5	106
68	Quantifying the Capacity Contributions during Activation of Li₂MnO₃. ACS Energy Letters, 2020, 5, 634-641.	8.8	105
69	Band Structure and Fermi Surface of Electron-Doped C60 Monolayers. Science, 2003, 300, 303-307.	6.0	102
70	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
71	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
72	Distinct Solidâ€Electrolyteâ€Interphases on Sn (100) and (001) Electrodes Studied by Soft Xâ€Ray Spectroscopy. Advanced Materials Interfaces, 2014, 1, 1300115.	1.9	94

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73	Formation of a Kâ€"Inâ€"Se Surface Species by NaF/KF Postdeposition Treatment of Cu(In,Ga)Se₂ Thin-Film Solar Cell Absorbers. ACS Applied Materials & Interfaces, 2017, 9, 3581-3589.	4.0	94
74	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
75	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
76	Mussel-Inspired Conductive Polymer Binder for Si-Alloy Anode in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5440-5446.	4.0	90
77	Key electronic states in lithium battery materials probed by soft X-ray spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 64-74.	0.8	89
78	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
79	Cycling mechanism of Li2MnO3: Liâ€"CO2Âbatteries and commonality on oxygen redox in cathode materials. Joule, 2021, 5, 975-997.	11.7	88
80	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
81	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
82	Dissociate lattice oxygen redox reactions from capacity and voltage drops of battery electrodes. Science Advances, 2020, 6, eaaw3871.	4.7	82
83	Direct Extraction of the Eliashberg Function for Electron-Phonon Coupling: A Case Study ofBe(101Â¯0). Physical Review Letters, 2004, 92, 186401.	2.9	81
84	X-ray spectroscopy of energy materials under in situ/operando conditions. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 264-273.	0.8	81
85	Spectroscopic Signature of Oxidized Oxygen States in Peroxides. Journal of Physical Chemistry Letters, 2018, 9, 6378-6384.	2.1	80
86	Design Rules for High-Valent Redox in Intercalation Electrodes. Joule, 2020, 4, 1369-1397.	11.7	80
87	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>f</mml:mi></mml:mrow></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>f</mml:mi></mml:mrow></mml:math>origin of the insulating state in uranium dioxide: X-ray absorption experiments and first-principles calculations. Physical Review B, 2011, 83.	1.1	79
88	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
89	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
90	Polychromatic X-ray microdiffraction studies of mesoscale structure and dynamics. Journal of Synchrotron Radiation, 2005, 12, 155-162.	1.0	77

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91	Solid and liquid spectroscopic analysis (SALSA)â€“a soft x-ray spectroscopy endstation with a novel flow-through liquid cell. Review of Scientific Instruments, 2009, 80, 123102.	0.6	77
92	Modular soft x-ray spectrometer for applications in energy sciences and quantum materials. Review of Scientific Instruments, 2017, 88, 013110.	0.6	77
93	Electrochemical and spectroscopic study of novel Cu and Fe-based catalysts forÂoxygen reduction in alkaline media. Journal of Power Sources, 2012, 213, 169-179.	4.0	76
94	Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. Nature Communications, 2019, 10, 4975.	5.8	75
95	Depth-resolved band gap in Cu(In,Ga)(S,Se)2 thin films. Applied Physics Letters, 2008, 93, .	1.5	72
96	Surface degradation of Li1â€“xNi0.80Co0.15Al0.05O2 cathodes: Correlating charge transfer impedance with surface phase transformations. Applied Physics Letters, 2016, 108, .	1.5	72
97	Negligible voltage hysteresis with strong anionic redox in conventional battery electrode. Nano Energy, 2020, 74, 104831.	8.2	72
98	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
99	Ligand-Controlled Colloidal Synthesis and Electronic Structure Characterization of Cubic Iron Pyrite (FeS₂) Nanocrystals. Chemistry of Materials, 2013, 25, 1615-1620.	3.2	70
100	Prelithiation Activates Li(Ni_{0.5}Mn_{0.3}Co_{0.2})O₂ for High Capacity and Excellent Cycling Stability. Nano Letters, 2015, 15, 5590-5596.	4.5	68
101	Nuclear dynamics and spectator effects in resonant inelastic soft x-ray scattering of gas-phase water molecules. Journal of Chemical Physics, 2012, 136, 144311.	1.2	66
102	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
103	Non-topotactic reactions enable high rate capability in Li-rich cathode materials. Nature Energy, 2021, 6, 706-714.	19.8	65
104	A Bi2S3@CNT nanocomposite as anode material for sodium ion batteries. Materials Letters, 2016, 167, 102-105.	1.3	64
105	Polaron coherence condensation as the mechanism for colossal magnetoresistance in layered manganites. Physical Review B, 2007, 76, .	1.1	63
106	Stabilizing Cathode Materials of Lithium-Ion Batteries by Controlling Interstitial Sites on the Surface. CheM, 2018, 4, 1685-1695.	5.8	63
107	Transition-metal redox evolution in LiNi0.5Mn0.3Co0.2O2 electrodes at high potentials. Journal of Power Sources, 2017, 360, 294-300.	4.0	62
108	Revisiting the charge compensation mechanisms in LiNi_{0.8}Co_{0.2â^'y}Al_yO₂ systems. Materials Horizons, 2019, 6, 2112-2123.	6.4	62

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109	Anomalous metal segregation in lithium-rich material provides design rules for stable cathode in lithium-ion battery. Nature Communications, 2019, 10, 1650.	5.8	60
110	Mn Ion Dissolution Mechanism for Lithium-Ion Battery with LiMn₂O₄ Cathode: In Situ Ultravioletâ€“Visible Spectroscopy and Ab Initio Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2020, 11, 3051-3057.	2.1	60
111	Hierarchical nickel valence gradient stabilizes high-nickel content layered cathode materials. Nature Communications, 2021, 12, 2350.	5.8	59
112	Origin of the Monochromatic Photoemission Peak in Diamondoid Monolayers. Nano Letters, 2009, 9, 57-61.	4.5	58
113	Magnetic ordering in tetragonal FeS: Evidence for strong itinerant spin fluctuations. Physical Review B, 2011, 83, .	1.1	57
114	Angle-resolved photoemission spectral function analysis of the electron-doped cuprateNd1.85Ce0.15CuO4. Physical Review B, 2003, 68, .	1.1	56
115	Probing LaMO₃ Metal and Oxygen Partial Density of States Using X-ray Emission, Absorption, and Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 2063-2072.	1.5	56
116	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
117	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
118	Oxygen-redox reactions in LiCoO2 cathode without Oâ€“O bonding during charge-discharge. Joule, 2021, 5, 720-736.	11.7	56
119	Origin and regulation of oxygen redox instability in high-voltage battery cathodes. Nature Energy, 2022, 7, 808-817.	19.8	55
120	X-ray absorption spectroscopy of biomimetic dye molecules for solar cells. Journal of Chemical Physics, 2009, 131, 194701.	1.2	54
121	Electrochemical Performances of MoO2/C Nanocomposite for Sodium Ion Storage: An Insight into Rate Dependent Charge/Discharge Mechanism. Electrochimica Acta, 2017, 240, 379-387.	2.6	54
122	Suppressing the voltage decay of low-cost P2-type iron-based cathode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 20795-20803.	5.2	54
123	Direct probe of Mott-Hubbard to charge-transfer insulator transition and electronic structure evolution in transition-metal systems. Physical Review B, 2011, 83, .	1.1	53
124	Synthesis and Reaction Mechanism of Novel Fluorinated Carbon Fiber as a High-Voltage Cathode Material for Rechargeable Na Batteries. Chemistry of Materials, 2016, 28, 1026-1033.	3.2	53
125	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance. Nano Letters, 2017, 17, 6018-6026.	4.5	53
126	Oxygen release and oxygen redox. Nature Energy, 2018, 3, 619-620.	19.8	53

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127	Why LiFePO₄is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation. Physical Chemistry Chemical Physics, 2015, 17, 26369-26377.	1.3	52
128	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
129	Josephson-Coupling Origin for the Upward Curvature of the Pseudo-Upper-Critical Field inBi2Sr2â^'xLaxCuO6+Î´Crystals. Physical Review Letters, 1999, 82, 410-413.	2.9	51
130	Probing hydrogen bonding orbitals: resonant inelastic soft X-ray scattering of aqueous NH₃. Physical Chemistry Chemical Physics, 2015, 17, 27145-27153.	1.3	49
131	Influence of Carrier Density and Energy Barrier Scattering on a High Seebeck Coefficient and Power Factor in Transparent Thermoelectric Copper Iodide. ACS Applied Energy Materials, 2020, 3, 10037-10044.	2.5	49
132	Near-Edge X-ray Absorption Fine Structure Spectroscopy of Diamondoid Thiol Monolayers on Gold. Journal of the American Chemical Society, 2008, 130, 10536-10544.	6.6	47
133	Universal mechanism for breaking amide bonds by ionizing radiation. Journal of Chemical Physics, 2011, 135, 044702.	1.2	47
134	Breathing and oscillating growth of solid-electrolyte-interphase upon electrochemical cycling. Chemical Communications, 2018, 54, 814-817.	2.2	47
135	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
136	Momentum dependence of4fhybridization in heavy-fermion compounds: Angle-resolved photoemission study ofYbIr2Si2andYbRh2Si2. Physical Review B, 2007, 75, .	1.1	46
137	Utilizing the full capacity of carbon black as anode for Na-ion batteries via solvent co-intercalation. Nano Research, 2017, 10, 4378-4387.	5.8	45
138	Resonant inelastic soft x-ray scattering of CdS: A two-dimensional electronic structure map approach. Physical Review B, 2009, 79, .	1.1	44
139	Fingerprint Oxygen Redox Reactions in Batteries through High-Efficiency Mapping of Resonant Inelastic X-ray Scattering. Condensed Matter, 2019, 4, 5.	0.8	44
140	Manipulating the polarity of conductive polymer binders for Si-based anodes in lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 3651-3658.	5.2	43
141	Layered-rocksalt intergrown cathode for high-capacity zero-strain battery operation. Nature Communications, 2021, 12, 2348.	5.8	43
142	RIXS investigations of liquids, solutions, and liquid/solid interfaces. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 111-120.	0.8	42
143	Surface Defects: Possible Source of Room Temperature Ferromagnetism in Co-Doped ZnO Nanorods. Journal of Physical Chemistry C, 2013, 117, 8968-8973.	1.5	42
144	Fluorination effect for stabilizing cationic and anionic redox activities in cation-disordered cathode materials. Energy Storage Materials, 2020, 32, 234-243.	9.5	42

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145	Attachment of Protoporphyrin Dyes to Nanostructured ZnO Surfaces: Characterization by Near Edge X-ray Absorption Fine Structure Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 18195-18201.	1.5	41
146	Energy Dispersion of4f-Derived Emissions in Photoelectron Spectra of the Heavy-Fermion CompoundYbIr2Si2. Physical Review Letters, 2006, 96, 106402.	2.9	40
147	Anomalous Fermi-Surface Dependent Pairing in a Self-Doped High-TcSuperconductor. Physical Review Letters, 2006, 97, 236401.	2.9	39
148	Utilizing Oxygen Redox in Layered Cathode Materials from Multiscale Perspective. Advanced Energy Materials, 2021, 11, 2003227.	10.2	39
149	Same Superconducting Criticality for Underdoped and Overdoped La2-xSrxCuO4 Single Crystals. Physical Review Letters, 2000, 85, 2805-2808.	2.9	37
150	Nuclear dynamics in the core-excited state of aqueous ammonia probed by resonant inelastic soft x-ray scattering. Physical Review B, 2011, 84, .	1.1	37
151	Ultrafast Proton Dynamics in Aqueous Amino Acid Solutions Studied by Resonant Inelastic Soft X-ray Scattering. Journal of Physical Chemistry B, 2012, 116, 13757-13764.	1.2	37
152	High-Capacity, Aliovalently Doped Olivine LiMn_{1â€“3x/2}V_xâ–¡_{x/2}PO₄ Cathodes without Carbon Coating. Chemistry of Materials, 2014, 26, 3018-3026.	3.2	37
153	Role of Redoxâ€Inactive Transitionâ€Metals in the Behavior of Cationâ€Disordered Rocksalt Cathodes. Small, 2020, 16, e2000656.	5.2	37
154	Crystal growth and superconductivity of heavily La-doped Bi-2201 single crystals. Physica C: Superconductivity and Its Applications, 1998, 308, 294-300.	0.6	36
155	Asymmetric K/Li-Ion Battery Based on Intercalation Selectivity. ACS Energy Letters, 2018, 3, 65-71.	8.8	36
156	Correlating the phase evolution and anionic redox in Co-Free Ni-Rich layered oxide cathodes. Nano Energy, 2020, 78, 105365.	8.2	36
157	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
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