Wanli L Yang

List of Publications by Year
in descending order

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

355	355	355	20921
all docs	docs citations	times ranked	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	Source of Rate Acceleration for Carbocation Cyclization in Biomimetic Supramolecular Cages. Journal of the American Chemical Society, 2022, 144, 11413-11424.	6.6	15
8	Highly reversible Li₂RuO₃ cathodes in sulfide-based all solid-state lithium batteries. Energy and Environmental Science, 2022, 15, 3470-3482.	15.6	17
9	Cation-disordered rocksalt-type high-entropy cathodes for Li-ion batteries. Nature Materials, 2021, 20, 214-221.	13.3	290
10	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
11	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
12	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
13	Tailoring the Redox Reactions for Highâ€Capacity Cycling of Cationâ€Disordered Rocksalt Cathodes. Advanced Functional Materials, 2021, 31, 2008696.	7.8	23
14	Unlocking anionic redox activity in O3-type sodium 3d layered oxides via Li substitution. Nature Materials, 2021, 20, 353-361.	13.3	155
15	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
16	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
17	Coulombically-stabilized oxygen hole polarons enable fully reversible oxygen redox. Energy and Environmental Science, 2021, 14, 4858-4867.	15.6	29
18	Steep sulfur gradient in CZTSSe solar cells by H₂S-assisted rapid surface sulfurization. RSC Advances, 2021, 11, 12687-12695.	1.7	7

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19	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
20	Understanding the Structural Evolution of a Nickel Chalcogenide Electrocatalyst Surface for Water Oxidation. Energy & Fuels, 2021, 35, 4387-4403.	2.5	33
21	Whither Mn Oxidation in Mn-Rich Alkali-Excess Cathodes?. ACS Energy Letters, 2021, 6, 1055-1064.	8.8	20
22	Utilizing Oxygen Redox in Layered Cathode Materials from Multiscale Perspective. Advanced Energy Materials, 2021, 11, 2003227.	10.2	39
23	Oxygen-redox reactions in LiCoO2 cathode without Oâ€“O bonding during charge-discharge. Joule, 2021, 5, 720-736.	11.7	56
24	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. Nature Catalysis, 2021, 4, 212-222.	16.1	266
25	Spectroscopic characterization of electronic structures of ultra-thin single crystal La0.7Sr0.3MnO3. Scientific Reports, 2021, 11, 5250.	1.6	10
26	Dynamic Effects and Hydrogen Bonding in Mixed-Halide Perovskite Solar Cell Absorbers. Journal of Physical Chemistry Letters, 2021, 12, 3885-3890.	2.1	12
27	Hierarchical nickel valence gradient stabilizes high-nickel content layered cathode materials. Nature Communications, 2021, 12, 2350.	5.8	59
28	Cycling mechanism of Li2MnO3: Liâ€“CO2Âbatteries and commonality on oxygen redox in cathode materials. Joule, 2021, 5, 975-997.	11.7	88
29	Layered-rocksalt intergrown cathode for high-capacity zero-strain battery operation. Nature Communications, 2021, 12, 2348.	5.8	43
30	In Situ/Operando (Soft) Xâ€ray Spectroscopy Study of Beyond Lithiumâ€ion Batteries. Energy and Environmental Materials, 2021, 4, 139-157.	7.3	26
31	Chemical Structure of a Carbon-Rich Layer at the Wet-Chemical Processed Cu2ZnSn(S,Se)4/Mo Interface. IEEE Journal of Photovoltaics, 2021, 11, 658-663.	1.5	2
32	Non-topotactic reactions enable high rate capability in Li-rich cathode materials. Nature Energy, 2021, 6, 706-714.	19.8	65
33	Sulfate Speciation Analysis Using Soft X-ray Emission Spectroscopy. Analytical Chemistry, 2021, 93, 8300-8308.	3.2	3
34	Interplay between Cation and Anion Redox in Ni-Based Disordered Rocksalt Cathodes. ACS Nano, 2021, 15, 13360-13369.	7.3	13
35	Distinct Oxygen Redox Activities in Li₂MO₃ (M = Mn, Ru, Ir). ACS Energy Letters, 2021, 6, 3417-3424.	8.8	33
36	Efficient passivation of n-type and p-type silicon surface defects by hydrogen sulfide gas reaction. Journal of Physics Condensed Matter, 2021, 33, 464002.	0.7	2

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37	Controlled Experiments and Optimized Theory of Absorption Spectra of Li Metal and Salts. ACS Applied Materials & Interfaces, 2021, 13, 45488-45495.	4.0	8
38	Understanding the Electronic Structure Evolution of Epitaxial LaNi_{1â€"<i>x</i>}Fe_{<i>x</i>}O₃ Thin Films for Water Oxidation. Nano Letters, 2021, 21, 8324-8331.	4.5	31
39	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
40	Synthetic control over polymorph formation in the d-band semiconductor system FeS₂. Chemical Science, 2021, 12, 13870-13877.	3.7	2
41	Uncommon Behavior of Li Doping Suppresses Oxygen Redox in P2â€Type Manganeseâ€Rich Sodium Cathodes. Advanced Materials, 2021, 33, e2107141.	11.1	34
42	Impact of <i>n</i>-Butylammonium Bromide on the Chemical and Electronic Structure of Double-Cation Perovskite Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 53202-53210.	4.0	7
43	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
44	Coupling Methylammonium and Formamidinium Cations with Halide Anions: Hybrid Orbitals, Hydrogen Bonding, and the Role of Dynamics. Journal of Physical Chemistry C, 2021, 125, 25917-25926.	1.5	4
45	Operando Soft X-ray Spectroscopy Probing Chemical Transformation in Space and Time. Microscopy and Microanalysis, 2021, 27, 61-62.	0.2	0
46	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
47	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
48	Enabling Facile Anionic Kinetics through Cationic Redox Mediator in Li-Rich Layered Cathodes. ACS Energy Letters, 2020, 5, 3535-3543.	8.8	21
49	Correlating the phase evolution and anionic redox in Co-Free Ni-Rich layered oxide cathodes. Nano Energy, 2020, 78, 105365.	8.2	36
50	Fluorination effect for stabilizing cationic and anionic redox activities in cation-disordered cathode materials. Energy Storage Materials, 2020, 32, 234-243.	9.5	42
51	Time- and strain-dependent nanoscale structural degradation in phase change epitaxial strontium ferrite films. Npj Materials Degradation, 2020, 4, .	2.6	11
52	High-power Mg batteries enabled by heterogeneous enolization redox chemistry and weakly coordinating electrolytes. Nature Energy, 2020, 5, 1043-1050.	19.8	205
53	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
54	Probing calcium solvation by XAS, MD and DFT calculations. RSC Advances, 2020, 10, 27315-27321.	1.7	12

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55	Engineering Surface Oxygenated Functionalities on Commercial Carbon toward Ultrafast Sodium Storage in Ether-Based Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 37116-37127.	4.0	13
56	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
57	Advances in soft X-ray RIXS for studying redox reaction states in batteries. Dalton Transactions, 2020, 49, 13519-13527.	1.6	19
58	Impact of UV-induced ozone and low-energy Ar+-ion cleaning on the chemical structure of Cu(In,Ga)(S,Se)2 absorber surfaces. Journal of Applied Physics, 2020, 128, .	1.1	3
59	Enabling Stable Highâ€Voltage LiCoO₂ Operation by Using Synergetic Interfacial Modification Strategy. Advanced Functional Materials, 2020, 30, 2004664.	7.8	119
60	In-situ/operando X-ray absorption spectroscopic investigation of the electrode/electrolyte interface on the molecular scale. Surface Science, 2020, 702, 121720.	0.8	19
61	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
62	Redox Mechanism in Na-Ion Battery Cathodes Probed by Advanced Soft X-Ray Spectroscopy. Frontiers in Chemistry, 2020, 8, 816.	1.8	12
63	Disparate Exciton-Phonon Couplings for Zone-Center and Boundary Phonons in Solid-State Graphite. Physical Review Letters, 2020, 125, 116401.	2.9	7
64	Role of Redoxâ€Inactive Transitionâ€Metals in the Behavior of Cationâ€Disordered Rocksalt Cathodes. Small, 2020, 16, e2000656.	5.2	37
65	Design Rules for High-Valent Redox in Intercalation Electrodes. Joule, 2020, 4, 1369-1397.	11.7	80
66	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
67	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
68	Ultrahigh power and energy density in partially ordered lithium-ion cathode materials. Nature Energy, 2020, 5, 213-221.	19.8	158
69	Deciphering the Solvent Effect for the Solvation Structure of Ca²⁺ in Polar Molecular Liquids. Journal of Physical Chemistry B, 2020, 124, 3408-3417.	1.2	8
70	Mn Ion Dissolution Mechanism for Lithium-Ion Battery with LiMn₂O₄ Cathode: <i>In Situ</i> Ultravioletâ€“Visible Spectroscopy and <i>Ab Initio</i> Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2020, 11, 3051-3057.	2.1	60
71	Amorphous nonstoichiometric oxides with tunable room-temperature ferromagnetism and electrical transport. Science Bulletin, 2020, 65, 1718-1725.	4.3	5
72	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

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73	Dissociate lattice oxygen redox reactions from capacity and voltage drops of battery electrodes. Science Advances, 2020, 6, eaaw3871.	4.7	82
74	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
75	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
76	Metal-Insulator Transitions in Î²â€²-Cu V2O5 Mediated by Polaron Oscillation and Cation Shuttling. Matter, 2020, 2, 1166-1186.	5.0	9
77	Quantifying the Capacity Contributions during Activation of Li₂MnO₃. ACS Energy Letters, 2020, 5, 634-641.	8.8	105
78	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
79	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
80	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
81	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
82	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
83	Negligible voltage hysteresis with strong anionic redox in conventional battery electrode. Nano Energy, 2020, 74, 104831.	8.2	72
84	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
85	Direct observation of delithiation as the origin of analog memristance in Li<i>x</i>NbO2. APL Materials, 2019, 7, .	2.2	13
86	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
87	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
88	Boosting the sodium storage behaviors of carbon materials in ether-based electrolyte through the artificial manipulation of microstructure. Nano Energy, 2019, 66, 104177.	8.2	20
89	Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. Nature Communications, 2019, 10, 4975.	5.8	75
90	Unraveling the Cationic and Anionic Redox Reactions in a Conventional Layered Oxide Cathode. ACS Energy Letters, 2019, 4, 2836-2842.	8.8	111

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91	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. Nature Energy, 2019, 4, 977-987.	19.8	123
92	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
93	Variations in the Chemical and Electronic Impact of Post-Deposition Treatments on Cu(In,Ga)(S,Se)₂ Absorbers. ACS Applied Energy Materials, 2019, 2, 8641-8648.	2.5	3
94	Decomposing electronic and lattice contributions in optical pump-X-ray probe transient inner-shell absorption spectroscopy of CuO. EPJ Web of Conferences, 2019, 205, 04015.	0.1	0
95	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
96	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithiumâ€Rich Cathode Oxides. Angewandte Chemie, 2019, 131, 4367-4371.	1.6	13
97	Molybdenum Disulfide Catalytic Coatings via Atomic Layer Deposition for Solar Hydrogen Production from Copper Gallium Diselenide Photocathodes. ACS Applied Energy Materials, 2019, 2, 1060-1066.	2.5	17
98	Metalâ€“oxygen decoordination stabilizes anion redox in Li-rich oxides. Nature Materials, 2019, 18, 256-265.	13.3	280
99	Decomposing electronic and lattice contributions in optical pump â€“ X-ray probe transient inner-shell absorption spectroscopy of CuO. Faraday Discussions, 2019, 216, 414-433.	1.6	8
100	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
101	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6â€‰V. Nature Energy, 2019, 4, 594-603.	19.8	572
102	Intermixing at the In_{<i>x</i>}S_{<i>y</i>}/Cu₂ZnSn(S,Se)₄ Heterojunction and Its Impact on the Chemical and Electronic Interface Structure. ACS Applied Energy Materials, 2019, 2, 4098-4104.	2.5	11
103	Local electronic structure of the peptide bond probed by resonant inelastic soft X-ray scattering. Physical Chemistry Chemical Physics, 2019, 21, 13207-13214.	1.3	10
104	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
105	Cascade anchoring strategy for general mass production of high-loading single-atomic metal-nitrogen catalysts. Nature Communications, 2019, 10, 1278.	5.8	591
106	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
107	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
108	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO₂ Batteries. Chemistry of Materials, 2019, 31, 2036-2047.	3.2	195

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109	Electrolyte Stability and Discharge Products of an Ionic-Liquid-Based Liâ€“O₂ Battery Revealed by Soft X-Ray Emission Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 30827-30832.	1.5	6
110	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
111	Semitransparent Sb₂S₃ thin film solar cells by ultrasonic spray pyrolysis for use in solar windows. Beilstein Journal of Nanotechnology, 2019, 10, 2396-2409.	1.5	30
112	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
113	Fingerprint Oxygen Redox Reactions in Batteries through High-Efficiency Mapping of Resonant Inelastic X-ray Scattering. Condensed Matter, 2019, 4, 5.	0.8	44
114	Li₃BN₂ as a Transition Metal Free, High Capacity Cathode for Liâ€ion Batteries. ChemElectroChem, 2019, 6, 320-325.	1.7	9
115	Evidence of a second-order Peierls-driven metal-insulator transition in crystalline NbO2. Physical Review Materials, 2019, 3, .	0.9	18
116	Site-specific electronic structure of imidazole and imidazolium in aqueous solutions. Physical Chemistry Chemical Physics, 2018, 20, 8302-8310.	1.3	19
117	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
118	Elucidating anionic oxygen activity in lithium-rich layered oxides. Nature Communications, 2018, 9, 947.	5.8	241
119	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
120	Oxidant K edge x-ray emission spectroscopy of UF4 and UO2. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, 03E101.	0.9	1
121	Improving performance by Na doping of a buffer layerâ€"chemical and electronic structure of the In_xS_y:Na/CuIn(S,Se)₂ thinâ€film solar cell interface. Progress in Photovoltaics: Research and Applications, 2018, 26, 359-366.	4.4	20
122	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
123	Mussel-Inspired Conductive Polymer Binder for Si-Alloy Anode in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5440-5446.	4.0	90
124	Breathing and oscillating growth of solid-electrolyte-interphase upon electrochemical cycling. Chemical Communications, 2018, 54, 814-817.	2.2	47
125	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	1.5	106
126	Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. Joule, 2018, 2, 125-140.	11.7	311

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127	Asymmetric K/Li-Ion Battery Based on Intercalation Selectivity. ACS Energy Letters, 2018, 3, 65-71.	8.8	36
128	Short Hydrogen Bonds on Reconstructed Nanocrystal Surface Enhance Oxygen Evolution Activity. ACS Catalysis, 2018, 8, 466-473.	5.5	20
129	Probing covalency with oxidant K edge x-ray absorption spectroscopy of UF4 and UO2. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, 061403.	0.9	1
130	Rubidium Fluoride Post-Deposition Treatment: Impact on the Chemical Structure of the Cu(In,Ga)Se₂ Surface and CdS/Cu(In,Ga)Se₂ Interface in Thin-Film Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 37602-37608.	4.0	19
131	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
132	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
133	Spectroscopic Signature of Oxidized Oxygen States in Peroxides. Journal of Physical Chemistry Letters, 2018, 9, 6378-6384.	2.1	80
134	Design principles for high transition metal capacity in disordered rocksalt Li-ion cathodes. Energy and Environmental Science, 2018, 11, 2159-2171.	15.6	123
135	Stabilizing Cathode Materials of Lithium-Ion Batteries by Controlling Interstitial Sites on the Surface. CheM, 2018, 4, 1685-1695.	5.8	63
136	Construction of Uniform Cobalt-Based Nanoshells and Its Potential for Improving Li-Ion Battery Performance. ACS Applied Materials & Interfaces, 2018, 10, 22896-22901.	4.0	16
137	Oxygen release and oxygen redox. Nature Energy, 2018, 3, 619-620.	19.8	53
138	Microbial Interactions With Dissolved Organic Matter Drive Carbon Dynamics and Community Succession. Frontiers in Microbiology, 2018, 9, 1234.	1.5	107
139	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
140	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
141	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
142	Modular soft x-ray spectrometer for applications in energy sciences and quantum materials. Review of Scientific Instruments, 2017, 88, 013110.	0.6	77
143	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
144	An Advanced Materials Beamline for Energy Research (AMBER). Synchrotron Radiation News, 2017, 30, 41-43.	0.2	2

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145	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
146	Surface degradation of uranium tetrafluoride. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	11
147	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
148	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
149	Znâ€“Seâ€“Cdâ€“S Interlayer Formation at the CdS/Cu₂ZnSnSe₄ Thin-Film Solar Cell Interface. ACS Energy Letters, 2017, 2, 1632-1640.	8.8	31
150	Electric-field control of tri-state phase transformation with a selective dual-ion switch. Nature, 2017, 546, 124-128.	13.7	551
151	Transition-metal redox evolution in LiNi0.5Mn0.3Co0.2O2 electrodes at high potentials. Journal of Power Sources, 2017, 360, 294-300.	4.0	62
152	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
153	Revealing the Size-Dependent dâ€“d Excitations of Cobalt Nanoparticles Using Soft X-ray Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 319-325.	2.1	9
154	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. Chemical Reviews, 2017, 117, 13123-13186.	23.0	390
155	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
156	Nano-engineering of electron correlation in oxide superlattices. Nano Futures, 2017, 1, 031001.	1.0	5
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