

Wanli L Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

330
papers

16,415
citations

70
h-index

116
g-index

354
ext. papers

19,768
ext. citations

10.4
avg, IF

6.69
L-index

#	Paper	IF	Citations
330	Another view of oxygen in cathodes for high energy batteries. <i>Joule</i> , 2022 , 6, 946-949	27.8	
329	Coupling Methylammonium and Formamidinium Cations with Halide Anions: Hybrid Orbitals, Hydrogen Bonding, and the Role of Dynamics. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25917-25926	3.8	0
328	Operando Soft X-ray Spectroscopy Probing Chemical Transformation in Space and Time. <i>Microscopy and Microanalysis</i> , 2021 , 27, 61-62	0.5	
327	Synthetic control over polymorph formation in the d-band semiconductor system FeS. <i>Chemical Science</i> , 2021 , 12, 13870-13877	9.4	0
326	Uncommon Behavior of Li Doping Suppresses Oxygen Redox in P2-Type Manganese-Rich Sodium Cathodes. <i>Advanced Materials</i> , 2021 , e2107141	24	12
325	Impact of -Butylammonium Bromide on the Chemical and Electronic Structure of Double-Cation Perovskite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	3
324	Realizing continuous cation order-to-disorder tuning in a class of high-energy spinel-type Li-ion cathodes. <i>Matter</i> , 2021 ,	12.7	6
323	Utilizing Oxygen Redox in Layered Cathode Materials from Multiscale Perspective. <i>Advanced Energy Materials</i> , 2021 , 11, 2003227	21.8	8
322	Oxygen-redox reactions in LiCoO ₂ cathode without O-O bonding during charge-discharge. <i>Joule</i> , 2021 , 5, 720-736	27.8	15
321	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. <i>Nature Catalysis</i> , 2021 , 4, 212-222	36.5	80
320	Spectroscopic characterization of electronic structures of ultra-thin single crystal LaSrMnO ₃ . <i>Scientific Reports</i> , 2021 , 11, 5250	4.9	4
319	Dynamic Effects and Hydrogen Bonding in Mixed-Halide Perovskite Solar Cell Absorbers. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3885-3890	6.4	4
318	Hierarchical nickel valence gradient stabilizes high-nickel content layered cathode materials. <i>Nature Communications</i> , 2021 , 12, 2350	17.4	24
317	Cycling mechanism of Li ₂ MnO ₃ : Li ₂ CO ₂ batteries and commonality on oxygen redox in cathode materials. <i>Joule</i> , 2021 , 5, 975-997	27.8	30
316	Layered-rocksalt intergrown cathode for high-capacity zero-strain battery operation. <i>Nature Communications</i> , 2021 , 12, 2348	17.4	11
315	In Situ/Operando (Soft) X-ray Spectroscopy Study of Beyond Lithium-ion Batteries. <i>Energy and Environmental Materials</i> , 2021 , 4, 139-157	13	11
314	Chemical Structure of a Carbon-Rich Layer at the Wet-Chemical Processed Cu ₂ ZnSn(S,Se) ₄ /Mo Interface. <i>IEEE Journal of Photovoltaics</i> , 2021 , 11, 658-663	3.7	1

313	Sulfate Speciation Analysis Using Soft X-ray Emission Spectroscopy. <i>Analytical Chemistry</i> , 2021 , 93, 8300-8308	1
312	Cation-disordered rocksalt-type high-entropy cathodes for Li-ion batteries. <i>Nature Materials</i> , 2021 , 20, 214-221	27 90
311	The Role of Metal Substitution in Tuning Anion Redox in Sodium Metal Layered Oxides Revealed by X-Ray Spectroscopy and Theory. <i>Angewandte Chemie</i> , 2021 , 133, 10975-10982	3.6 7
310	The Role of Metal Substitution in Tuning Anion Redox in Sodium Metal Layered Oxides Revealed by X-Ray Spectroscopy and Theory. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10880-10887	16.4 16
309	Deciphering the Oxygen Absorption Pre-edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. <i>Energy and Environmental Materials</i> , 2021 , 4, 246-254	13 24
308	Tailoring the Redox Reactions for High-Capacity Cycling of Cation-Disordered Rocksalt Cathodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2008696	15.6 7
307	Unlocking anionic redox activity in O3-type sodium 3d layered oxides via Li substitution. <i>Nature Materials</i> , 2021 , 20, 353-361	27 47
306	Could Irradiation Introduce Oxidized Oxygen Signals in Resonant Inelastic X-ray Scattering of Battery Electrodes?. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1138-1143	6.4 5
305	Revisiting the role of Zr doping in Ni-rich layered cathodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17415-17424	13 9
304	Coulombically-stabilized oxygen hole polarons enable fully reversible oxygen redox. <i>Energy and Environmental Science</i> , 2021 , 14, 4858-4867	35.4 6
303	Steep sulfur gradient in CZTSSe solar cells by HS-assisted rapid surface sulfurization.. <i>RSC Advances</i> , 2021 , 11, 12687-12695	3.7 2
302	Electrochemical Utilization of Iron IV in the Li1.3Fe0.4Nb0.3O2 Disordered Rocksalt Cathode. <i>Batteries and Supercaps</i> , 2021 , 4, 771-777	5.6 1
301	Understanding the Structural Evolution of a Nickel Chalcogenide Electrocatalyst Surface for Water Oxidation. <i>Energy & Fuels</i> , 2021 , 35, 4387-4403	4.1 9
300	Whither Mn Oxidation in Mn-Rich Alkali-Excess Cathodes?. <i>ACS Energy Letters</i> , 2021 , 6, 1055-1064	20.1 7
299	Interplay between Cation and Anion Redox in Ni-Based Disordered Rocksalt Cathodes. <i>ACS Nano</i> , 2021 ,	16.7 3
298	Controlled Experiments and Optimized Theory of Absorption Spectra of Li Metal and Salts. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45488-45495	9.5 1
297	Understanding the Electronic Structure Evolution of Epitaxial LaNiFeO Thin Films for Water Oxidation. <i>Nano Letters</i> , 2021 , 21, 8324-8331	11.5 6
296	Trace Key Mechanistic Features of the Arsenite Sequestration Reaction with Nanoscale Zerovalent Iron. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16538-16548	16.4 0

295	Role of Redox-Inactive Transition-Metals in the Behavior of Cation-Disordered Rocksalt Cathodes. <i>Small</i> , 2020 , 16, e2000656	11	22
294	Design Rules for High-Valent Redox in Intercalation Electrodes. <i>Joule</i> , 2020 , 4, 1369-1397	27.8	46
293	An In Situ Formed Surface Coating Layer Enabling LiCoO ₂ with Stable 4.6 V High-Voltage Cycle Performances. <i>Advanced Energy Materials</i> , 2020 , 10, 2001413	21.8	87
292	Full Energy Range Resonant Inelastic X-ray Scattering of O and CO: Direct Comparison with Oxygen Redox State in Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2618-2623	6.4	23
291	Ultrahigh power and energy density in partially ordered lithium-ion cathode materials. <i>Nature Energy</i> , 2020 , 5, 213-221	62.3	91
290	Deciphering the Solvent Effect for the Solvation Structure of Ca in Polar Molecular Liquids. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3408-3417	3.4	6
289	Mn Ion Dissolution Mechanism for Lithium-Ion Battery with LiMnO Cathode: Ultraviolet-Visible Spectroscopy and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3051-3057	6.4	28
288	Amorphous nonstoichiometric oxides with tunable room-temperature ferromagnetism and electrical transport. <i>Science Bulletin</i> , 2020 , 65, 1718-1725	10.6	1
287	Reversible Anionic Redox Activities in Conventional LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathodes. <i>Angewandte Chemie</i> , 2020 , 132, 8759-8766	3.6	4
286	Dissociate lattice oxygen redox reactions from capacity and voltage drops of battery electrodes. <i>Science Advances</i> , 2020 , 6, eaaw3871	14.3	55
285	How Bulk Sensitive is Hard X-ray Photoelectron Spectroscopy: Accounting for the Cathode-Electrolyte Interface when Addressing Oxygen Redox. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2106-2112	6.4	25
284	Identifying the anionic redox activity in cation-disordered Li _{1.25} Nb _{0.25} Fe _{0.50} O ₂ /C oxide cathodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5115-5127	13	21
283	Metal-Insulator Transitions in δ -Cu V ₂ O ₅ Mediated by Polaron Oscillation and Cation Shuttling. <i>Matter</i> , 2020 , 2, 1166-1186	12.7	5
282	Quantifying the Capacity Contributions during Activation of Li ₂ MnO ₃ . <i>ACS Energy Letters</i> , 2020 , 5, 634-641	11.1	68
281	Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. <i>Nature Materials</i> , 2020 , 19, 419-427	27	171
280	Tuning Oxygen Redox Reaction through the Inductive Effect with Proton Insertion in Li-Rich Oxides. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7277-7284	9.5	22
279	Reversible Anionic Redox Activities in Conventional LiNi Co Mn O Cathodes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8681-8688	16.4	49
278	Interfacial properties in energy storage systems studied by soft x-ray absorption spectroscopy and resonant inelastic x-ray scattering. <i>Journal of Chemical Physics</i> , 2020 , 152, 140901	3.9	10

277	Extended Interfacial Stability through Simple Acid Rinsing in a Li-Rich Oxide Cathode Material. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8522-8531	16.4	41
276	Negligible voltage hysteresis with strong anionic redox in conventional battery electrode. <i>Nano Energy</i> , 2020 , 74, 104831	17.1	38
275	A design of resonant inelastic X-ray scattering (RIXS) spectrometer for spatial- and time-resolved spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 695-707	2.4	7
274	Interface Formation between CdS and Alkali Postdeposition-Treated Cu(In,Ga)Se Thin-Film Solar Cell Absorbers-Key To Understanding the Efficiency Gain. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6688-6698	9.5	4
273	Influence of Carrier Density and Energy Barrier Scattering on a High Seebeck Coefficient and Power Factor in Transparent Thermoelectric Copper Iodide. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10037-10044	6.1	21
272	Enabling Facile Anionic Kinetics through Cationic Redox Mediator in Li-Rich Layered Cathodes. <i>ACS Energy Letters</i> , 2020 , 5, 3535-3543	20.1	9
271	Correlating the phase evolution and anionic redox in Co-Free Ni-Rich layered oxide cathodes. <i>Nano Energy</i> , 2020 , 78, 105365	17.1	14
270	Fluorination effect for stabilizing cationic and anionic redox activities in cation-disordered cathode materials. <i>Energy Storage Materials</i> , 2020 , 32, 234-243	19.4	21
269	Time- and strain-dependent nanoscale structural degradation in phase change epitaxial strontium ferrite films. <i>Npj Materials Degradation</i> , 2020 , 4,	5.7	5
268	High-power Mg batteries enabled by heterogeneous enolization redox chemistry and weakly coordinating electrolytes. <i>Nature Energy</i> , 2020 , 5, 1043-1050	62.3	76
267	Suppression of voltage-decay in Li ₂ MnO ₃ cathode via reconstruction of layered-spinel coexisting phases. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18687-18697	13	5
266	Probing calcium solvation by XAS, MD and DFT calculations.. <i>RSC Advances</i> , 2020 , 10, 27315-27321	3.7	8
265	Engineering Surface Oxygenated Functionalities on Commercial Carbon toward Ultrafast Sodium Storage in Ether-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37116-37127	9.5	8
264	Observation of Double Excitations in the Resonant Inelastic X-ray Scattering of Nitric Oxide. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7476-7482	6.4	6
263	Advances in soft X-ray RIXS for studying redox reaction states in batteries. <i>Dalton Transactions</i> , 2020 , 49, 13519-13527	4.3	9
262	Impact of UV-induced ozone and low-energy Ar ⁺ -ion cleaning on the chemical structure of Cu(In,Ga)(S,Se) ₂ absorber surfaces. <i>Journal of Applied Physics</i> , 2020 , 128, 155301	2.5	1
261	Enabling Stable High-Voltage LiCoO ₂ Operation by Using Synergetic Interfacial Modification Strategy. <i>Advanced Functional Materials</i> , 2020 , 30, 2004664	15.6	39
260	In-situ/operando X-ray absorption spectroscopic investigation of the electrode/electrolyte interface on the molecular scale. <i>Surface Science</i> , 2020 , 702, 121720	1.8	13

259	Li-rich cathodes for rechargeable Li-based batteries: reaction mechanisms and advanced characterization techniques. <i>Energy and Environmental Science</i> , 2020 , 13, 4450-4497	35.4	72
258	Redox Mechanism in Na-Ion Battery Cathodes Probed by Advanced Soft X-Ray Spectroscopy. <i>Frontiers in Chemistry</i> , 2020 , 8, 816	5	9
257	Disparate Exciton-Phonon Couplings for Zone-Center and Boundary Phonons in Solid-State Graphite. <i>Physical Review Letters</i> , 2020 , 125, 116401	7.4	4
256	Decomposing electronic and lattice contributions in optical pump-X-ray probe transient inner-shell absorption spectroscopy of CuO. <i>EPJ Web of Conferences</i> , 2019 , 205, 04015	0.3	
255	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4323-4327	16.4	81
254	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. <i>Angewandte Chemie</i> , 2019 , 131, 4367-4371	3.6	12
253	Molybdenum Disulfide Catalytic Coatings via Atomic Layer Deposition for Solar Hydrogen Production from Copper Gallium Diselenide Photocathodes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1060-1066	6.1	15
252	Metal-oxygen decoordination stabilizes anion redox in Li-rich oxides. <i>Nature Materials</i> , 2019 , 18, 256-265	2.7	178
251	Decomposing electronic and lattice contributions in optical pump - X-ray probe transient inner-shell absorption spectroscopy of CuO. <i>Faraday Discussions</i> , 2019 , 216, 414-433	3.6	5
250	Near-Surface [Ga]/([In]+[Ga]) Composition in Cu(In,Ga)Se ₂ Thin-Film Solar Cell Absorbers: An Overlooked Material Feature. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800856	1.6	6
249	Trace doping of multiple elements enables stable battery cycling of LiCoO ₂ at 4.6 V. <i>Nature Energy</i> , 2019 , 4, 594-603	62.3	299
248	Intermixing at the In _x Sy/Cu ₂ ZnSn(S,Se) ₄ Heterojunction and Its Impact on the Chemical and Electronic Interface Structure. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4098-4104	6.1	9
247	Local electronic structure of the peptide bond probed by resonant inelastic soft X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 13207-13214	3.6	7
246	Distinction between Intrinsic and X-ray-Induced Oxidized Oxygen States in Li-Rich 3d Layered Oxides and LiAlO ₂ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13201-13207	3.8	28
245	Synchrotron-Based Soft X-Ray Spectroscopy for Battery Material Studies 2019 , 1-18		
244	Cascade anchoring strategy for general mass production of high-loading single-atomic metal-nitrogen catalysts. <i>Nature Communications</i> , 2019 , 10, 1278	17.4	368
243	Phase Control on Surface for the Stabilization of High Energy Cathode Materials of Lithium Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4900-4907	16.4	54
242	Anomalous metal segregation in lithium-rich material provides design rules for stable cathode in lithium-ion battery. <i>Nature Communications</i> , 2019 , 10, 1650	17.4	42

241	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO ₂ Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 2036-2047	9.6	119
240	Direct observation of delithiation as the origin of analog memristance in Li _x NbO ₂ . <i>APL Materials</i> , 2019 , 7, 071103	5.7	7
239	Surface-to-Bulk Redox Coupling through Thermally Driven Li Redistribution in Li- and Mn-Rich Layered Cathode Materials. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12079-12086	16.4	38
238	Revisiting the charge compensation mechanisms in LiNi _{0.8} Co _{0.2} Al _y O ₂ systems. <i>Materials Horizons</i> , 2019 , 6, 2112-2123	14.4	41
237	Boosting the sodium storage behaviors of carbon materials in ether-based electrolyte through the artificial manipulation of microstructure. <i>Nano Energy</i> , 2019 , 66, 104177	17.1	11
236	Momentum-resolved resonant inelastic soft X-ray scattering (qRIXS) endstation at the ALS. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019 , 146897	1.7	4
235	Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. <i>Nature Communications</i> , 2019 , 10, 4975	17.4	46
234	Unraveling the Cationic and Anionic Redox Reactions in a Conventional Layered Oxide Cathode. <i>ACS Energy Letters</i> , 2019 , 4, 2836-2842	20.1	64
233	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. <i>Nature Energy</i> , 2019 , 4, 977-987	62.3	78
232	Short O-O separation in layered oxide NaCoO enables an ultrafast oxygen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23473-23479	11.5	35
231	Variations in the Chemical and Electronic Impact of Post-Deposition Treatments on Cu(In,Ga)(S,Se) ₂ Absorbers. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8641-8648	6.1	1
230	Evidence of a second-order Peierls-driven metal-insulator transition in crystalline NbO ₂ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	10
229	Electrolyte Stability and Discharge Products of an Ionic-Liquid-Based LiO ₂ Battery Revealed by Soft X-Ray Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30827-30832	3.8	5
228	P2-type Na ₂ /3Ni ₁ /3Mn ₂ /3O ₂ Cathode Material with Excellent Rate and Cycling Performance for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3980-A3986	3.9	14
227	Semitransparent SbS thin film solar cells by ultrasonic spray pyrolysis for use in solar windows. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 2396-2409	3	12
226	High Reversibility of Lattice Oxygen Redox Quantified by Direct Bulk Probes of Both Anionic and Cationic Redox Reactions. <i>Joule</i> , 2019 , 3, 518-541	27.8	156
225	Fingerprint Oxygen Redox Reactions in Batteries through High-Efficiency Mapping of Resonant Inelastic X-ray Scattering. <i>Condensed Matter</i> , 2019 , 4, 5	1.8	36
224	Li ₃ BN ₂ as a Transition Metal Free, High Capacity Cathode for Li-ion Batteries. <i>ChemElectroChem</i> , 2019 , 6, 320-325	4.3	3

223	Site-specific electronic structure of imidazole and imidazolium in aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8302-8310	3.6	14
222	Monovalent manganese based anodes and co-solvent electrolyte for stable low-cost high-rate sodium-ion batteries. <i>Nature Communications</i> , 2018 , 9, 861	17.4	60
221	Elucidating anionic oxygen activity in lithium-rich layered oxides. <i>Nature Communications</i> , 2018 , 9, 947	17.4	181
220	Anionic and cationic redox and interfaces in batteries: Advances from soft X-ray absorption spectroscopy to resonant inelastic scattering. <i>Journal of Power Sources</i> , 2018 , 389, 188-197	8.9	137
219	Oxidant K edge x-ray emission spectroscopy of UF ₄ and UO ₂ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 03E101	2.9	1
218	Techniques and Demonstrations of Synchrotron-Based In situ Soft X-ray Spectroscopy for Studying Energy Materials 2018 , 511-562		1
217	Improving performance by Na doping of a buffer layer—chemical and electronic structure of the In _x Sy:Na/CuIn(S,Se) ₂ thin-film solar cell interface. <i>Progress in Photovoltaics: Research and Applications</i> , 2018 , 26, 359-366	6.8	17
216	Evolution of the Electrode—Electrolyte Interface of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Electrodes Due to Electrochemical and Thermal Stress. <i>Chemistry of Materials</i> , 2018 , 30, 958-969	9.6	60
215	Mussel-Inspired Conductive Polymer Binder for Si-Alloy Anode in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5440-5446	9.5	62
214	Breathing and oscillating growth of solid-electrolyte-interphase upon electrochemical cycling. <i>Chemical Communications</i> , 2018 , 54, 814-817	5.8	33
213	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8445-8454	3.8	74
212	Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. <i>Joule</i> , 2018 , 2, 125-147	19.8	216
211	Construction of Uniform Cobalt-Based Nanoshells and Its Potential for Improving Li-Ion Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22896-22901	9.5	12
210	Microbial Interactions With Dissolved Organic Matter Drive Carbon Dynamics and Community Succession. <i>Frontiers in Microbiology</i> , 2018 , 9, 1234	5.7	57
209	Photocharging and Band Gap Narrowing Effects on the Performance of Plasmonic Photoelectrodes in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31374-31383	9.5	11
208	Elemental-sensitive Detection of the Chemistry in Batteries through Soft X-ray Absorption Spectroscopy and Resonant Inelastic X-ray Scattering. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	9
207	Asymmetric K/Li-Ion Battery Based on Intercalation Selectivity. <i>ACS Energy Letters</i> , 2018 , 3, 65-71	20.1	27
206	Short Hydrogen Bonds on Reconstructed Nanocrystal Surface Enhance Oxygen Evolution Activity. <i>ACS Catalysis</i> , 2018 , 8, 466-473	13.1	16

205	Probing covalency with oxidant K edge x-ray absorption spectroscopy of UF ₄ and UO ₂ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 061403	2.9	1
204	Rubidium Fluoride Post-Deposition Treatment: Impact on the Chemical Structure of the Cu(In,Ga)Se Surface and CdS/Cu(In,Ga)Se Interface in Thin-Film Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37602-37608	9.5	11
203	Suppressing the voltage decay of low-cost P2-type iron-based cathode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20795-20803	13	25
202	Mechanism of Exact Transition between Cationic and Anionic Redox Activities in Cathode Material LiFeSiO. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6262-6268	6.4	19
201	Spectroscopic Signature of Oxidized Oxygen States in Peroxides. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6378-6384	6.4	62
200	Design principles for high transition metal capacity in disordered rocksalt Li-ion cathodes. <i>Energy and Environmental Science</i> , 2018 , 11, 2159-2171	35.4	81
199	Stabilizing Cathode Materials of Lithium-Ion Batteries by Controlling Interstitial Sites on the Surface. <i>Chem</i> , 2018 , 4, 1685-1695	16.2	45
198	Formation of a K-In-Se Surface Species by NaF/KF Postdeposition Treatment of Cu(In,Ga)Se Thin-Film Solar Cell Absorbers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3581-3589	9.5	70
197	Modular soft x-ray spectrometer for applications in energy sciences and quantum materials. <i>Review of Scientific Instruments</i> , 2017 , 88, 013110	1.7	68
196	Valence Electronic Structure of Li ₂ O ₂ , Li ₂ O, Li ₂ CO ₃ , and LiOH Probed by Soft X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5460-5466	3.8	11
195	An Advanced Materials Beamline for Energy Research (AMBER). <i>Synchrotron Radiation News</i> , 2017 , 30, 41-43	0.6	2
194	High-efficiency in situ resonant inelastic x-ray scattering (iRIXS) endstation at the Advanced Light Source. <i>Review of Scientific Instruments</i> , 2017 , 88, 033106	1.7	86
193	Surface degradation of uranium tetrafluoride. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 03E108	2.9	10
192	Electrochemical Performances of MoO ₂ /C Nanocomposite for Sodium Ion Storage: An Insight into Rate Dependent Charge/Discharge Mechanism. <i>Electrochimica Acta</i> , 2017 , 240, 379-387	6.7	41
191	Interactions at the electrode-electrolyte interfaces in batteries studied by quasi-in-situ soft x-ray absorption spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017 , 221, 58-64	1.7	4
190	ZnBeCdS Interlayer Formation at the CdS/Cu ₂ ZnSnSe ₄ Thin-Film Solar Cell Interface. <i>ACS Energy Letters</i> , 2017 , 2, 1632-1640	20.1	18
189	Electric-field control of tri-state phase transformation with a selective dual-ion switch. <i>Nature</i> , 2017 , 546, 124-128	50.4	388
188	Transition-metal redox evolution in LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ electrodes at high potentials. <i>Journal of Power Sources</i> , 2017 , 360, 294-300	8.9	47

187	Effect of excess lithium in LiMn ₂ O ₄ and Li _{1.15} Mn _{1.85} O ₄ electrodes revealed by quantitative analysis of soft X-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2017 , 110, 093902	3.4	13
186	Revealing the Size-Dependent d-d Excitations of Cobalt Nanoparticles Using Soft X-ray Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 319-325	6.4	8
185	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. <i>Chemical Reviews</i> , 2017 , 117, 13123-13186	68.1	291
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30	Space charge effect and mirror charge effect in photoemission spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 142, 27-38	1-7	99
29	Nodal quasiparticle in pseudogapped colossal magnetoresistive manganites. <i>Nature</i> , 2005 , 438, 474-8	50-4	203
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18	Angle-resolved photoemission spectral function analysis of the electron-doped cuprate Nd _{1.85} Ce _{0.15} CuO ₄ . <i>Physical Review B</i> , 2003 , 68,	3.3	53
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15	Macroscopic phase separation in extremely hole-underdoped Bi ₂ Sr _{2-x} La _x CuO _{6+y} single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 647-648	1.3	
14	Point-contact tunneling on Bi ₂ Sr _{1.94} La _{0.06} CuO _{6+y} single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 1679-1680	1.3	
13	Macroscopic phase separation in overdoped high temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 1735-1738	1.3	8
12	Large distinctions between underdoped and overdoped La _{2-x} Sr _x CuO ₄ single crystals as observed from magnetic and transport measurement: A possible evidence for macroscopic phase separation in overdoped high temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 2005-2006	1.3	3
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