

Wanli L Yang

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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	Polymers with tailored electronic structure for high capacity lithium battery electrodes. <i>Advanced Materials</i> , 2011 , 23, 4679-83	24	450
329	Rhombohedral prussian white as cathode for rechargeable sodium-ion batteries. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2548-54	16.4	415
328	Electric-field control of tri-state phase transformation with a selective dual-ion switch. <i>Nature</i> , 2017 , 546, 124-128	50.4	388
327	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
326	The origin of high electrolyte-electrode interfacial resistances in lithium cells containing garnet type solid electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18294-300	3.6	335
325	Coupling between oxygen redox and cation migration explains unusual electrochemistry in lithium-rich layered oxides. <i>Nature Communications</i> , 2017 , 8, 2091	17.4	322
324	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
323	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. <i>Chemical Reviews</i> , 2017 , 117, 13123-13186	68.1	291
322	Toward an ideal polymer binder design for high-capacity battery anodes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12048-56	16.4	282
321	Ti-substituted tunnel-type NaMnO ₂ oxide as a negative electrode for aqueous sodium-ion batteries. <i>Nature Communications</i> , 2015 , 6, 6401	17.4	265
320	High-temperature superconductors: Universal nodal Fermi velocity. <i>Nature</i> , 2003 , 423, 398	50.4	263
319	Metallic behavior of lightly doped La _{2-x} Sr _x CuO ₄ with a Fermi surface forming an arc. <i>Physical Review Letters</i> , 2003 , 91, 027001	7.4	260
318	Charge-transfer-energy-dependent oxygen evolution reaction mechanisms for perovskite oxides. <i>Energy and Environmental Science</i> , 2017 , 10, 2190-2200	35.4	260
317	Estimating Hybridization of Transition Metal and Oxygen States in Perovskites from O K-edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1856-1863	3.8	244
316	How Solid-Electrolyte Interphase Forms in Aqueous Electrolytes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18670-18680	16.4	227
315	Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. <i>Joule</i> , 2018 , 2, 125-140	17.8	216
314	Monochromatic electron photoemission from diamondoid monolayers. <i>Science</i> , 2007 , 316, 1460-2	33.3	211

313	Nodal quasiparticle in pseudogapped colossal magnetoresistive manganites. <i>Nature</i> , 2005 , 438, 474-8	50.4	203
312	Elucidating anionic oxygen activity in lithium-rich layered oxides. <i>Nature Communications</i> , 2018 , 9, 947	17.4	181
311	Systematic doping evolution of the underlying Fermi surface of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review B</i> , 2006 , 74,	3.3	180
310	Distinct charge dynamics in battery electrodes revealed by in situ and operando soft X-ray spectroscopy. <i>Nature Communications</i> , 2013 , 4, 2568	17.4	179
309	Metal-oxygen decoordination stabilizes anion redox in Li-rich oxides. <i>Nature Materials</i> , 2019 , 18, 256-265	7	178
308	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
307	Side-chain conducting and phase-separated polymeric binders for high-performance silicon anodes in lithium-ion batteries. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2565-71	16.4	166
306	Evidence for weak electronic correlations in iron pnictides. <i>Physical Review B</i> , 2009 , 80,	3.3	162
305	Cliff-like conduction band offset and KCN-induced recombination barrier enhancement at the CdS/Cu ₂ ZnSnS ₄ thin-film solar cell heterojunction. <i>Applied Physics Letters</i> , 2011 , 99, 222105	3.4	158
304	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
303	Multiple bosonic mode coupling in the electron self-energy of $(\text{La}_{2-x}\text{Sr}_x)\text{CuO}_4$. <i>Physical Review Letters</i> , 2005 , 95, 117001	7.4	147
302	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
301	Mitigating oxygen loss to improve the cycling performance of high capacity cation-disordered cathode materials. <i>Nature Communications</i> , 2017 , 8, 981	17.4	136
300	Enhancing the High-Voltage Cycling Performance of $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2$ by Retarding Its Interfacial Reaction with an Electrolyte by Atomic-Layer-Deposited Al_2O_3 . <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25105-12	9.5	136
299	Angle-resolved photoemission study of the evolution of band structure and charge density wave properties in RTe_3 (R=Y, La, Ce, Sm, Gd, Tb, and Dy). <i>Physical Review B</i> , 2008 , 77,	3.3	125
298	Spectroscopic fingerprints of valence and spin states in manganese oxides and fluorides. <i>Current Applied Physics</i> , 2013 , 13, 544-548	2.6	124
297	Phase transformation and lithiation effect on electronic structure of Li_xFePO_4 : an in-depth study by soft X-ray and simulations. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13708-15	16.4	121
296	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO ₂ Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 2036-2047	9.6	119

295	Manganese-cobalt hexacyanoferrate cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4211-4223	13	117
294	Hierarchy of multiple many-body interaction scales in high-temperature superconductors. <i>Physical Review B</i> , 2007 , 75,	3.3	116
293	Dichotomy between nodal and antinodal quasiparticles in underdoped (La _{2-x} Sr _x)CuO ₄ superconductors. <i>Physical Review Letters</i> , 2004 , 92, 187001	7.4	114
292	Na-Ion Intercalation and Charge Storage Mechanism in 2D Vanadium Carbide. <i>Advanced Energy Materials</i> , 2017 , 7, 1700959	21.8	113
291	Fermi surface reconstruction in the CDW state of CeTe ₃ observed by photoemission. <i>Physical Review Letters</i> , 2004 , 93, 126405	7.4	112
290	Recent progress on synchrotron-based in-situ soft X-ray spectroscopy for energy materials. <i>Advanced Materials</i> , 2014 , 26, 7710-29	24	108
289	Soft x-ray irradiation effects of Li ₂ O, Li ₂ CO ₃ and Li ₂ S revealed by absorption spectroscopy. <i>PLoS ONE</i> , 2012 , 7, e49182	3.7	103
288	Effect of Manganese Contamination on the Solid-Electrolyte-Interphase Properties in Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1099-A1107	3.9	100
287	Direct evidence of gradient Mn(II) evolution at charged states in LiNi _{0.5} Mn _{1.5} O ₄ electrodes with capacity fading. <i>Journal of Power Sources</i> , 2015 , 273, 1120-1126	8.9	99
286	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
285	Revealing and suppressing surface Mn(II) formation of Na _{0.44} MnO ₂ electrodes for Na-ion batteries. <i>Nano Energy</i> , 2015 , 16, 186-195	17.1	98
284	Conductive Polymer Binder for High-Tap-Density Nanosilicon Material for Lithium-Ion Battery Negative Electrode Application. <i>Nano Letters</i> , 2015 , 15, 7927-32	11.5	96
283	Direct Experimental Probe of the Ni(II)/Ni(III)/Ni(IV) Redox Evolution in LiNi _{0.5} Mn _{1.5} O ₄ Electrodes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27228-27233	3.8	96
282	Band structure and Fermi surface of electron-doped C ₆₀ monolayers. <i>Science</i> , 2003 , 300, 303-7	33.3	95
281	Ultrahigh power and energy density in partially ordered lithium-ion cathode materials. <i>Nature Energy</i> , 2020 , 5, 213-221	62.3	91
280	Reducing exciton binding energy by increasing thin film permittivity: an effective approach to enhance exciton separation efficiency in organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10105-10	9.5	91
279	Cation-disordered rocksalt-type high-entropy cathodes for Li-ion batteries. <i>Nature Materials</i> , 2021 , 20, 214-221	27	90
278	Bivalence MnO with hydroxylated interphase for high-voltage aqueous sodium-ion storage. <i>Nature Communications</i> , 2016 , 7, 13370	17.4	88

277	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
276	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
275	Depolarized and fully active cathode based on Li(Ni _{0.5} Co _{0.2} Mn _{0.3})O ₂ embedded in carbon nanotube network for advanced batteries. <i>Nano Letters</i> , 2014 , 14, 4700-6	11.5	85
274	Atomic-Scale Origin of Long-Term Stability and High Performance of p-GaN Nanowire Arrays for Photocatalytic Overall Pure Water Splitting. <i>Advanced Materials</i> , 2016 , 28, 8388-8397	24	83
273	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
272	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
271	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
270	Key electronic states in lithium battery materials probed by soft X-ray spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 190, 64-74	1.7	79
269	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. <i>Nature Energy</i> , 2019 , 4, 977-987	62.3	78
268	Distinct Solid-Electrolyte-Interphases on Sn (100) and (001) Electrodes Studied by Soft X-Ray Spectroscopy. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300115	4.6	78
267	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
266	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8445-8454	3.8	74
265	Quantitative probe of the transition metal redox in battery electrodes through soft x-ray absorption spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 413003	3	74
264	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
263	X-ray spectroscopy of energy materials under in situ/operando conditions. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015 , 200, 264-273	1.7	71
262	f-f origin of the insulating state in uranium dioxide: X-ray absorption experiments and first-principles calculations. <i>Physical Review B</i> , 2011 , 83,	3.3	71
261	Solid and liquid spectroscopic analysis (SALSA)--a soft x-ray spectroscopy endstation with a novel flow-through liquid cell. <i>Review of Scientific Instruments</i> , 2009 , 80, 123102	1.7	71
260	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

259	Electrochemical and spectroscopic study of novel Cu and Fe-based catalysts for oxygen reduction in alkaline media. <i>Journal of Power Sources</i> , 2012 , 213, 169-179	8.9	70
258	Direct extraction of the Eliashberg function for electron-phonon coupling: a case study of Be(10(-)10). <i>Physical Review Letters</i> , 2004 , 92, 186401	7.4	70
257	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
256	Quantifying the Capacity Contributions during Activation of Li ₂ MnO ₃ . <i>ACS Energy Letters</i> , 2020 , 5, 634-641	4.1	68
255	Polychromatic X-ray microdiffraction studies of mesoscale structure and dynamics. <i>Journal of Synchrotron Radiation</i> , 2005 , 12, 155-62	2.4	66
254	Modification of Transition-Metal Redox by Interstitial Water in Hexacyanometalate Electrodes for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18358-18364	16.4	65
253	Depth-resolved band gap in Cu(In,Ga)(S,Se) ₂ thin films. <i>Applied Physics Letters</i> , 2008 , 93, 244103	3.4	65
252	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
251	Ligand-Controlled Colloidal Synthesis and Electronic Structure Characterization of Cubic Iron Pyrite (FeS ₂) Nanocrystals. <i>Chemistry of Materials</i> , 2013 , 25, 1615-1620	9.6	64
250	Role of Superexchange Interaction on Tuning of Ni/Li Disorder in Layered Li(NiMnCo)O. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5537-5542	6.4	62
249	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
248	Spectroscopic Signature of Oxidized Oxygen States in Peroxides. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6378-6384	6.4	62
247	Prelithiation Activates Li(Ni _{0.5} Mn _{0.3} Co _{0.2})O ₂ for High Capacity and Excellent Cycling Stability. <i>Nano Letters</i> , 2015 , 15, 5590-6	11.5	61
246	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
245	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
244	Tuning Cu dopant of Zn _{0.5} Cd _{0.5} nanocrystals enables high-performance photocatalytic H ₂ evolution from water splitting under visible-light irradiation. <i>Nano Energy</i> , 2016 , 26, 405-416	17.1	60
243	Polaron coherence condensation as the mechanism for colossal magnetoresistance in layered manganites. <i>Physical Review B</i> , 2007 , 76,	3.3	59
242	Nuclear dynamics and spectator effects in resonant inelastic soft x-ray scattering of gas-phase water molecules. <i>Journal of Chemical Physics</i> , 2012 , 136, 144311	3.9	58

241	Microbial Interactions With Dissolved Organic Matter Drive Carbon Dynamics and Community Succession. <i>Frontiers in Microbiology</i> , 2018 , 9, 1234	5.7	57
240	Dissociate lattice oxygen redox reactions from capacity and voltage drops of battery electrodes. <i>Science Advances</i> , 2020 , 6, eaaw3871	14.3	55
239	Surface degradation of Li _{1-x} Ni _{0.80} Co _{0.15} Al _{0.05} O ₂ cathodes: Correlating charge transfer impedance with surface phase transformations. <i>Applied Physics Letters</i> , 2016 , 108, 263902	3.4	55
238	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
237	Magnetic ordering in tetragonal FeS: Evidence for strong itinerant spin fluctuations. <i>Physical Review B</i> , 2011 , 83,	3.3	54
236	Origin of the monochromatic photoemission peak in diamondoid monolayers. <i>Nano Letters</i> , 2009 , 9, 57-61	6.5	53
235	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
234	A Bi ₂ S ₃ @CNT nanocomposite as anode material for sodium ion batteries. <i>Materials Letters</i> , 2016 , 167, 102-105	3.3	51
233	In Situ Formation of a Cathode/Electrolyte Interface with Enhanced Stability by Titanium Substitution for High Voltage Spinel Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500109	1.6	51
232	Effect of Chromium and Niobium Doping on the Morphology and Electrochemical Performance of High-Voltage Spinel LiNi _(0.5) Mn _(1.5) O ₄ Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9116-24	9.5	50
231	Reversible Anionic Redox Activities in Conventional LiNi Co Mn O Cathodes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8681-8688	16.4	49
230	Direct probe of Mott-Hubbard to charge-transfer insulator transition and electronic structure evolution in transition-metal systems. <i>Physical Review B</i> , 2011 , 83,	3.3	48
229	X-ray absorption spectroscopy of biomimetic dye molecules for solar cells. <i>Journal of Chemical Physics</i> , 2009 , 131, 194701	3.9	48
228	Josephson-Coupling Origin for the Upward Curvature of the Pseudo-Upper-Critical Field in Bi ₂ Sr _{2-x} LaxCuO ₆ + δ Crystals. <i>Physical Review Letters</i> , 1999 , 82, 410-413	7.4	48
227	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
226	Probing LaMO ₃ Metal and Oxygen Partial Density of States Using X-ray Emission, Absorption, and Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2063-2072	3.8	47
225	Unlocking anionic redox activity in O ₃ -type sodium 3d layered oxides via Li substitution. <i>Nature Materials</i> , 2021 , 20, 353-361	27	47
224	Why LiFePO ₄ is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26369-77	3.6	46

223	Design Rules for High-Valent Redox in Intercalation Electrodes. <i>Joule</i> , 2020 , 4, 1369-1397	27.8	46
222	Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. <i>Nature Communications</i> , 2019 , 10, 4975	17.4	46
221	Stabilizing Cathode Materials of Lithium-Ion Batteries by Controlling Interstitial Sites on the Surface. <i>Chem</i> , 2018 , 4, 1685-1695	16.2	45
220	Near-edge X-ray absorption fine structure spectroscopy of diamondoid thiol monolayers on gold. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10536-44	16.4	44
219	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
218	Universal mechanism for breaking amide bonds by ionizing radiation. <i>Journal of Chemical Physics</i> , 2011 , 135, 044702	3.9	42
217	Resonant inelastic soft x-ray scattering of CdS: A two-dimensional electronic structure map approach. <i>Physical Review B</i> , 2009 , 79,	3.3	42
216	Momentum dependence of 4f hybridization in heavy-fermion compounds: Angle-resolved photoemission study of YbIr ₂ Si ₂ and YbRh ₂ Si ₂ . <i>Physical Review B</i> , 2007 , 75,	3.3	42
215	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
214	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
213	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
212	Probing hydrogen bonding orbitals: resonant inelastic soft X-ray scattering of aqueous NH ₃ . <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27145-53	3.6	41
211	Surface Defects: Possible Source of Room Temperature Ferromagnetism in Co-Doped ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8968-8973	3.8	40
210	RIXS investigations of liquids, solutions, and liquid/solid interfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 188, 111-120	1.7	39
209	Energy dispersion of 4f-derived emissions in photoelectron spectra of the heavy-fermion compound YbIr ₂ Si ₂ . <i>Physical Review Letters</i> , 2006 , 96, 106402	7.4	39
208	Enabling Stable High-Voltage LiCoO ₂ Operation by Using Synergetic Interfacial Modification Strategy. <i>Advanced Functional Materials</i> , 2020 , 30, 2004664	15.6	39
207	Negligible voltage hysteresis with strong anionic redox in conventional battery electrode. <i>Nano Energy</i> , 2020 , 74, 104831	17.1	38
206	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

205	Attachment of Protoporphyrin Dyes to Nanostructured ZnO Surfaces: Characterization by Near Edge X-ray Absorption Fine Structure Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18195-18201	3.8	38
204	Anomalous Fermi-surface dependent pairing in a self-doped high-Tc superconductor. <i>Physical Review Letters</i> , 2006 , 97, 236401	7.4	38
203	Synthesis and Reaction Mechanism of Novel Fluorinated Carbon Fiber as a High-Voltage Cathode Material for Rechargeable Na Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 1026-1033	9.6	37
202	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance. <i>Nano Letters</i> , 2017 , 17, 6018-6026	11.5	37
201	Utilizing the full capacity of carbon black as anode for Na-ion batteries via solvent co-intercalation. <i>Nano Research</i> , 2017 , 10, 4378-4387	10	36
200	Crystal growth and superconductivity of heavily La-doped Bi-2201 single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1998 , 308, 294-300	1.3	36
199	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
198	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
197	Nuclear dynamics in the core-excited state of aqueous ammonia probed by resonant inelastic soft x-ray scattering. <i>Physical Review B</i> , 2011 , 84,	3.3	35
196	Same superconducting criticality for underdoped and overdoped La _{2-x} Sr _x CuO ₄ single crystals. <i>Physical Review Letters</i> , 2000 , 85, 2805-8	7.4	35
195	Manipulating the polarity of conductive polymer binders for Si-based anodes in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3651-3658	13	34
194	Breathing and oscillating growth of solid-electrolyte-interphase upon electrochemical cycling. <i>Chemical Communications</i> , 2018 , 54, 814-817	5.8	33
193	Electronic and magnetic structure of RScO ₃ (R=Sm,Gd,Dy) from x-ray spectroscopies and first-principles calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	33
192	Ultrafast proton dynamics in aqueous amino acid solutions studied by resonant inelastic soft X-ray scattering. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 13757-64	3.4	32
191	High-Capacity, Aliovalently Doped Olivine LiMn _{1-3x/2} V _{x/2} PO ₄ Cathodes without Carbon Coating. <i>Chemistry of Materials</i> , 2014 , 26, 3018-3026	9.6	31
190	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
189	Characterization of Sulfur Bonding in CdS:O Buffer Layers for CdTe-based Thin-Film Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16382-6	9.5	29
188	Electronic structure of Cu ₂ ZnSnS ₄ probed by soft x-ray emission and absorption spectroscopy. <i>Physical Review B</i> , 2011 , 84,	3.3	29

187	Orientation-dependent C60 electronic structures revealed by photoemission spectroscopy. <i>Physical Review Letters</i> , 2004 , 93, 197601	7.4	29
186	Anomalous momentum dependence of the quasiparticle scattering rate in overdoped Bi2Sr2CaCu2O8. <i>Physical Review Letters</i> , 2002 , 89, 167002	7.4	29
185	Distinction between Intrinsic and X-ray-Induced Oxidized Oxygen States in Li-Rich 3d Layered Oxides and LiAlO2. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13201-13207	3.8	28
184	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
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