List of Publications by Year in descending order

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359 papers	25,628 citations	6233 80 h-index	8370 147 g-index
364 all docs	364 docs citations	364 times ranked	29469 citing authors

#	Article	IF	Citations
1	Graphene Oxide as a Sulfur Immobilizer in High Performance Lithium/Sulfur Cells. Journal of the American Chemical Society, 2011, 133, 18522-18525.	6.6	1,415
2	Ultrafine jagged platinum nanowires enable ultrahigh mass activity for the oxygen reduction reaction. Science, 2016, 354, 1414-1419.	6.0	1,292
3	Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. Nature Chemistry, 2016, 8, 684-691.	6.6	898
4	Efficient hydrogen peroxide generation using reduced graphene oxide-based oxygen reduction electrocatalysts. Nature Catalysis, 2018, 1, 282-290.	16.1	699
5	High-Rate, Ultralong Cycle-Life Lithium/Sulfur Batteries Enabled by Nitrogen-Doped Graphene. Nano Letters, 2014, 14, 4821-4827.	4.5	683
6	Atomic-layered Au clusters on Î±-MoC as catalysts for the low-temperature water-gas shift reaction. Science, 2017, 357, 389-393.	6.0	534
7	Reversible Mn2+/Mn4+ double redox in lithium-excess cathode materials. Nature, 2018, 556, 185-190.	13.7	525
8	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. Nature Catalysis, 2019, 2, 495-503.	16.1	464
9	Enabling unassisted solar water splitting by iron oxide and silicon. Nature Communications, 2015, 6, 7447.	5.8	429
10	Probing the Optical Property and Electronic Structure of TiO₂Nanomaterials for Renewable Energy Applications. Chemical Reviews, 2014, 114, 9662-9707.	23.0	422
11	The structure of interfacial water on gold electrodes studied by x-ray absorption spectroscopy. Science, 2014, 346, 831-834.	6.0	391
12	Molecular Structure of Alcohol-Water Mixtures. Physical Review Letters, 2003, 91, 157401.	2.9	362
13	Electronic Structure of Monoclinic BiVO₄. Chemistry of Materials, 2014, 26, 5365-5373.	3.2	356
14	Operando Spectroscopic Analysis of an Amorphous Cobalt Sulfide Hydrogen Evolution Electrocatalyst. Journal of the American Chemical Society, 2015, 137, 7448-7455.	6.6	330
15	Properties of Disorder-Engineered Black Titanium Dioxide Nanoparticles through Hydrogenation. Scientific Reports, 2013, 3, 1510.	1.6	317
16	Electronic structure and chemical bonding of a graphene oxideâ€“sulfur nanocomposite for use in superior performance lithiumâ€“sulfur cells. Physical Chemistry Chemical Physics, 2012, 14, 13670.	1.3	305
17	Fast kinetics of magnesium monochloride cations in interlayer-expanded titanium disulfide for magnesium rechargeable batteries. Nature Communications, 2017, 8, 339.	5.8	304
18	Anion Redox Chemistry in the Cobalt Free 3d Transition Metal Oxide Intercalation Electrode Li[Li_{0.2}Ni_{0.2}Mn_{0.6}]O₂. Journal of the American Chemical Society, 2016, 138, 11211-11218.	6.6	271

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19	TiO₂/BiVO₄ Nanowire Heterostructure Photoanodes Based on Type II Band Alignment. ACS Central Science, 2016, 2, 80-88.	5.3	263
20	X-Ray Emission Spectroscopy of Hydrogen Bonding and Electronic Structure of Liquid Water. Physical Review Letters, 2002, 89, 137402.	2.9	242
21	Ni Foam-Supported Fe-Doped Î²-Ni(OH)₂ Nanosheets Show Ultralow Overpotential for Oxygen Evolution Reaction. ACS Energy Letters, 2019, 4, 622-628.	8.8	240
22	Indirect Bandgap and Optical Properties of Monoclinic Bismuth Vanadate. Journal of Physical Chemistry C, 2015, 119, 2969-2974.	1.5	233
23	Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2902-2907.	3.3	229
24	Acacia Senegalâ€“Inspired Bifunctional Binder for Longevity of Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2015, 5, 1500878.	10.2	223
25	Atomic Structure of Pt₃Ni Nanoframe Electrocatalysts by in Situ X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2015, 137, 15817-15824.	6.6	197
26	Size-Dependent Dissociation of Carbon Monoxide on Cobalt Nanoparticles. Journal of the American Chemical Society, 2013, 135, 2273-2278.	6.6	195
27	Oxygen evolution reaction over catalytic single-site Co in a well-defined brookite TiO2 nanorod surface. Nature Catalysis, 2021, 4, 36-45.	16.1	189
28	Electronic structure of nanostructured ZnO from x-ray absorption and emission spectroscopy and the local density approximation. Physical Review B, 2004, 70, .	1.1	180
29	Graphene oxide/metal nanocrystal multilaminates as the atomic limit for safe and selective hydrogen storage. Nature Communications, 2016, 7, 10804.	5.8	178
30	Coordinated path-following and direct yaw-moment control of autonomous electric vehicles with sideslip angle estimation. Mechanical Systems and Signal Processing, 2018, 105, 183-199.	4.4	172
31	Carbon doping switching on the hydrogen adsorption activity of NiO for hydrogen evolution reaction. Nature Communications, 2020, 11, 590.	5.8	170
32	Heterointerface engineered electronic and magnetic phases of NdNiO3 thin films. Nature Communications, 2013, 4, 2714.	5.8	167
33	Resonant X-Ray Raman Spectra of CuddExcitations inSr2CuO2Cl2. Physical Review Letters, 1998, 80, 5204-5207.	2.9	162
34	The synergetic interaction between LiNO3 and lithium polysulfides for suppressing shuttle effect of lithium-sulfur batteries. Energy Storage Materials, 2018, 11, 24-29.	9.5	160
35	Safe and Durable High-Temperature Lithiumâ€“Sulfur Batteries via Molecular Layer Deposited Coating. Nano Letters, 2016, 16, 3545-3549.	4.5	157
36	Electrochemical Reaction Mechanism of the MoS₂ Electrode in a Lithium-Ion Cell Revealed by in Situ and Operando X-ray Absorption Spectroscopy. Nano Letters, 2018, 18, 1466-1475.	4.5	153

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37	Copper adparticle enabled selective electrosynthesis of n-propanol. Nature Communications, 2018, 9, 4614.	5.8	153
38	Cobalt-Doped Black TiO₂ Nanotube Array as a Stable Anode for Oxygen Evolution and Electrochemical Wastewater Treatment. ACS Catalysis, 2018, 8, 4278-4287.	5.5	151
39	What Limits the Performance of Ta3N5 for Solar Water Splitting?. CheM, 2016, 1, 640-655.	5.8	143
40	Low-energyd-dexcitations in MnO studied by resonant x-ray fluorescence spectroscopy. Physical Review B, 1996, 54, 4405-4408.	1.1	139
41	Electronic structure of carbon nitride thin films studied by X-ray spectroscopy techniques. Thin Solid Films, 2005, 471, 19-34.	0.8	139
42	Resonant X-Ray Fluorescence Spectroscopy of Correlated Systems: A Probe of Charge-Transfer Excitations. Physical Review Letters, 1996, 77, 574-577.	2.9	137
43	Direct Observation of Two Electron Holes in a Hematite Photoanode during Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2012, 116, 16870-16875.	1.5	137
44	High-performance hybrid oxide catalyst of manganese and cobalt for low-pressure methanol synthesis. Nature Communications, 2015, 6, 6538.	5.8	135
45	X-ray Absorption Spectra of Dissolved Polysulfides in Lithiumâ€“Sulfur Batteries from First-Principles. Journal of Physical Chemistry Letters, 2014, 5, 1547-1551.	2.1	134
46	Angle-resolved soft-x-ray fluorescence and absorption study of graphite. Physical Review B, 1994, 50, 10457-10461.	1.1	132
47	Understanding the Electrochemical Mechanism of K-Î±MnO₂ for Magnesium Battery Cathodes. ACS Applied Materials & Interfaces, 2014, 6, 7004-7008.	4.0	132
48	Resonant X-Ray Emission Spectroscopy of Molecular Oxygen. Physical Review Letters, 1996, 76, 2448-2451.	2.9	125
49	An Adaptive Hierarchical Trajectory Following Control Approach of Autonomous Four-Wheel Independent Drive Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2482-2492.	4.7	123
50	Enhancing Catalytic Activity of MoS₂ Basal Plane S-Vacancy by Co Cluster Addition. ACS Energy Letters, 2018, 3, 2685-2693.	8.8	121
51	X-ray spectroscopic study of the electronic structure of visible-light responsive N-, C- and S-doped TiO2. Journal of Electron Spectroscopy and Related Phenomena, 2008, 162, 67-73.	0.8	119
52	Nucleophilic substitution between polysulfides and binders unexpectedly stabilizing lithium sulfur battery. Nano Energy, 2017, 38, 82-90.	8.2	119
53	Titanium incorporation into hematite photoelectrodes: theoretical considerations and experimental observations. Energy and Environmental Science, 2014, 7, 3100-3121.	15.6	118
54	Quenching of Symmetry Breaking in Resonant Inelastic X-Ray Scattering by Detuned Excitation. Physical Review Letters, 1996, 77, 5035-5038.	2.9	116

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55	In-situ X-ray Absorption Study of Evolution of Oxidation States and Structure of Cobalt in Co and CoPt Bimetallic Nanoparticles (4 nm) under Reducing (H₂) and Oxidizing (O₂) Environments. Nano Letters, 2011, 11, 847-853.	4.5	115
56	Nitrogen bonding structure in carbon nitride thin films studied by soft x-ray spectroscopy. Applied Physics Letters, 2001, 79, 4348-4350.	1.5	114
57	Efficient Hydrogen Production from Methanol Using a Single-Site Pt₁/CeO₂ Catalyst. Journal of the American Chemical Society, 2019, 141, 17995-17999.	6.6	114
58	Understanding the degradation mechanism of rechargeable lithium/sulfur cells: a comprehensive study of the sulfurâ€“graphene oxide cathode after dischargeâ€“charge cycling. Physical Chemistry Chemical Physics, 2014, 16, 16931-16940.	1.3	112
59	Investigation of surface effects through the application of the functional binders in lithium sulfur batteries. Nano Energy, 2015, 16, 28-37.	8.2	112
60	Nonlinear Coordinated Steering and Braking Control of Vision-Based Autonomous Vehicles in Emergency Obstacle Avoidance. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3230-3240.	4.7	111
61	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
62	CO2 Hydrogenation Studies on Co and CoPt Bimetallic Nanoparticles Under Reaction Conditions Using TEM, XPS and NEXAFS. Topics in Catalysis, 2011, 54, 778-785.	1.3	103
63	Synthesis, Optical and Structural Properties, and Charge Carrier Dynamics of Cu-Doped ZnSe Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 20864-20875.	1.5	99
64	In situ soft X-ray absorption spectroscopy investigation of electrochemical corrosion of copper in aqueous NaHCO3 solution. Electrochemistry Communications, 2010, 12, 820-822.	2.3	95
65	Combining in Situ NEXAFS Spectroscopy and CO₂ Methanation Kinetics To Study Pt and Co Nanoparticle Catalysts Reveals Key Insights into the Role of Platinum in Promoted Cobalt Catalysis. Journal of the American Chemical Society, 2014, 136, 9898-9901.	6.6	94
66	Effect of Electrolytic Properties of a Magnesium Organohaloaluminate Electrolyte on Magnesium Deposition. Journal of Physical Chemistry C, 2013, 117, 26881-26888.	1.5	93
67	Carrier Scattering at Alloy Nanointerfaces Enhances Power Factor in PEDOT:PSS Hybrid Thermoelectrics. Nano Letters, 2016, 16, 3352-3359.	4.5	93
68	Strain-induced high-temperature perovskite ferromagnetic insulator. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2873-2877.	3.3	92
69	Nature of the Metal Insulator Transition in Ultrathin Epitaxial Vanadium Dioxide. Nano Letters, 2013, 13, 4857-4861.	4.5	90
70	Revealing the Electrochemical Charging Mechanism of Nanosized Li₂S by in Situ and Operando X-ray Absorption Spectroscopy. Nano Letters, 2017, 17, 5084-5091.	4.5	89
71	A nature-inspired hydrogen-bonded supramolecular complex for selective copper ion removal from water. Nature Communications, 2020, 11, 3947.	5.8	86
72	Design of Automatic Steering Controller for Trajectory Tracking of Unmanned Vehicles Using Genetic Algorithms. IEEE Transactions on Vehicular Technology, 2012, 61, 2913-2924.	3.9	85

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73	Carbon Defect Characterization of Nitrogen-Doped Reduced Graphene Oxide Electrocatalysts for the Two-Electron Oxygen Reduction Reaction. Chemistry of Materials, 2019, 31, 3967-3973.	3.2	85
74	Local structures of liquid water studied by x-ray emission spectroscopy. Physical Review B, 2004, 69, .	1.1	83
75	Synchrotron radiation, soft-X-ray spectroscopy and nanomaterials. International Journal of Nanotechnology, 2004, 1, 193.	0.1	83
76	Solid electrolyte interphase on graphite Li-ion battery anodes studied by soft X-ray spectroscopy. Physical Chemistry Chemical Physics, 2004, 6, 4185-4189.	1.3	83
77	Effective electrostatic confinement of polysulfides in lithium/sulfur batteries by a functional binder. Nano Energy, 2017, 40, 559-565.	8.2	83
78	Photocatalytic Color Switching of Transition Metal Hexacyanometalate Nanoparticles for High-Performance Light-Printable Rewritable Paper. Nano Letters, 2017, 17, 755-761.	4.5	83
79	Probing symmetry breaking upon core excitation with resonant x-ray fluorescence. Physical Review A, 1995, 52, 3572-3576.	1.0	82
80	Dual-Channel, Molecular-Sieving Core/Shell ZIF@MOF Architectures as Engineered Fillers in Hybrid Membranes for Highly Selective CO₂ Separation. Nano Letters, 2017, 17, 6752-6758.	4.5	82
81	La-doped BaSnO3â€"Degenerate perovskite transparent conducting oxide: Evidence from synchrotron x-ray spectroscopy. Applied Physics Letters, 2013, 103, .	1.5	81
82	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
83	Resonant x-ray scattering beyond the Bornâ€"Oppenheimer approximation: Symmetry breaking in the oxygen resonant x-ray emission spectrum of carbon dioxide. Journal of Chemical Physics, 1997, 106, 3439-3456.	1.2	80
84	Synthesis and Structural, Optical, and Dynamic Properties of Core/Shell/Shell CdSe/ZnSe/ZnS Quantum Dots. Journal of Physical Chemistry C, 2012, 116, 25065-25073.	1.5	80
85	Electronic structure of phospho-olivines LixFePO4 (x=0,1) from soft-x-ray-absorption and -emission spectroscopies. Journal of Chemical Physics, 2005, 123, 184717.	1.2	79
86	Atomic-Scale Perspective of Ultrafast Charge Transfer at a Dyeâ€"Semiconductor Interface. Journal of Physical Chemistry Letters, 2014, 5, 2753-2759.	2.1	79
87	Spectroscopic Investigation of Plasma-Fluorinated Monolayer Graphene and Application for Gas Sensing. ACS Applied Materials & Interfaces, 2016, 8, 8652-8661.	4.0	77
88	Modular soft x-ray spectrometer for applications in energy sciences and quantum materials. Review of Scientific Instruments, 2017, 88, 013110.	0.6	77
89	Density of states, hybridization, and band-gap evolution inAlxGa1â^'xNalloys. Physical Review B, 1998, 58, 1928-1933.	1.1	76
90	Fingerprinting Lithium-Sulfur Battery Reaction Products by X-ray Absorption Spectroscopy. Journal of the Electrochemical Society, 2014, 161, A1100-A1106.	1.3	76

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91	Polarization-dependent soft-x-ray absorption of highly oriented ZnO microrod arrays. Journal of Physics Condensed Matter, 2002, 14, 6969-6974.	0.7	74
92	Electron Enrichment in 3d Transition Metal Oxide Hetero-Nanostructures. Nano Letters, 2011, 11, 3855-3861.	4.5	74
93	Dealloying of Cobalt from CuCo Nanoparticles under Syngas Exposure. Journal of Physical Chemistry C, 2013, 117, 6259-6266.	1.5	74
94	Selectively excited X-ray emission spectra of N2. Journal of Electron Spectroscopy and Related Phenomena, 1996, 82, 193-201.	0.8	73
95	Amorphous V₂O₅â€“P₂O₅ as high-voltage cathodes for magnesium batteries. Chemical Communications, 2015, 51, 15657-15660.	2.2	72
96	Hierarchically Controlled Insideâ€Out Doping of Mg Nanocomposites for Moderate Temperature Hydrogen Storage. Advanced Functional Materials, 2017, 27, 1704316.	7.8	72
97	Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. Matter, 2020, 3, 1774-1790.	5.0	71
98	Instrumentation for soft X-ray emission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2000, 110-111, 1-13.	0.8	70
99	Enhanced Photoreversible Color Switching of Redox Dyes Catalyzed by Bariumâ€Doped TiO₂ Nanocrystals. Angewandte Chemie - International Edition, 2015, 54, 1321-1326.	7.2	70
100	Dual-Site Cascade Oxygen Reduction Mechanism on SnO_x/Ptâ€“Cuâ€“Ni for Promoting Reaction Kinetics. Journal of the American Chemical Society, 2019, 141, 9463-9467.	6.6	70
101	Insights into the Mechanism of Methanol Steam Reforming Tandem Reaction over CeO₂ Supported Single-Site Catalysts. Journal of the American Chemical Society, 2021, 143, 12074-12081.	6.6	70
102	Electronic structure investigation of CoO by means of soft x-ray scattering. Physical Review B, 2002, 65, .	1.1	67
103	Pt-Mediated Reversible Reduction and Expansion of CeO₂ in Pt Nanoparticle/Mesoporous CeO₂ Catalyst: In Situ X-ray Spectroscopy and Diffraction Studies under Redox (H₂ and O₂) Atmospheres. Journal of Physical Chemistry C, 2013, 117, 26608-26616.	1.5	67
104	Robust gain-scheduling automatic steering control of unmanned ground vehicles under velocity-varying motion. Vehicle System Dynamics, 2019, 57, 595-616.	2.2	66
105	Mg deposition observed by in situ electrochemical Mg K-edge X-ray absorption spectroscopy. Electrochemistry Communications, 2012, 24, 43-46.	2.3	64
106	In Situ X-ray Absorption Spectroscopic Investigation of the Capacity Degradation Mechanism in Mg/S Batteries. Nano Letters, 2019, 19, 2928-2934.	4.5	63
107	Stability of the M2 phase of vanadium dioxide induced by coherent epitaxial strain. Physical Review B, 2016, 94, .	1.1	62
108	Electronic Structure, Optoelectronic Properties, and Photoelectrochemical Characteristics of Î³-Cu₃V₂O₈ Thin Films. Chemistry of Materials, 2017, 29, 3334-3345.	3.2	60

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109	Symmetry-selective resonant inelastic x-ray scattering ofC60. Physical Review B, 1995, 52, 14479-14496.	1.1	58
110	Soft X-ray characterization of Zn1â^'xSnxOy electronic structure for thin film photovoltaics. Physical Chemistry Chemical Physics, 2012, 14, 10154.	1.3	58
111	An adaptive fuzzy-sliding lateral control strategy of automated vehicles based on vision navigation. Vehicle System Dynamics, 2013, 51, 1502-1517.	2.2	58
112	Role of screening and angular distributions in resonant x-ray emission of CO. Physical Review A, 1997, 55, 134-145.	1.0	56
113	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
114	Effect of Al³⁺ Co-doping on the Dopant Local Structure, Optical Properties, and Exciton Dynamics in Cu⁺-Doped ZnSe Nanocrystals. ACS Nano, 2013, 7, 8680-8692.	7.3	55
115	Conversion reaction of vanadium sulfide electrode in the lithium-ion cell: Reversible or not reversible?. Nano Energy, 2018, 51, 391-399.	8.2	55
116	Tailored Reaction Route by Micropore Confinement for Liâ€“S Batteries Operating under Lean Electrolyte Conditions. Advanced Energy Materials, 2018, 8, 1800590.	10.2	55
117	Tracking the Chemical and Structural Evolution of the TiS₂ Electrode in the Lithium-Ion Cell Using Operando X-ray Absorption Spectroscopy. Nano Letters, 2018, 18, 4506-4515.	4.5	51
118	Resonant inelastic soft-x-ray scattering from valence-band excitations in3d0compounds. Physical Review B, 1997, 55, 4242-4249.	1.1	50
119	Uniform Doping of Metal Oxide Nanowires Using Solid State Diffusion. Journal of the American Chemical Society, 2014, 136, 10521-10526.	6.6	50
120	Improving a Mg/S Battery with YCl₃ Additive and Magnesium Polysulfide. Advanced Science, 2019, 6, 1800981.	5.6	50
121	Electronic structure ofLa2â^'xSrxCuO4studied by soft-x-ray-fluorescence spectroscopy with tunable excitation. Physical Review B, 1994, 49, 1376-1380.	1.1	49
122	Enhancing the Reversibility of Lattice Oxygen Redox Through Modulated Transition Metalâ€“Oxygen Covalency for Layered Battery Electrodes. Advanced Materials, 2022, 34, e2201152.	11.1	49
123	Towards understanding the electronic structure of Fe-doped CeO2 nanoparticles with X-ray spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 14701.	1.3	48
124	Material/element-dependent fluorescence-yield modes on soft X-ray absorption spectroscopy of cathode materials for Li-ion batteries. AIP Advances, 2016, 6, .	0.6	48
125	Identification of dual-active sites in cobalt phthalocyanine for electrochemical carbon dioxide reduction. Nano Energy, 2020, 67, 104163.	8.2	48
126	Lithium ion insertion in nanoporous anatase TiO2 studied with RIXS. Journal of Chemical Physics, 2003, 119, 3983-3987.	1.2	47

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127	High-performance lithium/sulfur cells with a bi-functionally immobilized sulfur cathode. Nano Energy, 2014, 9, 408-416.	8.2	47
128	On the Interfacial Electronic Structure Origin of Efficiency Enhancement in Hematite Photoanodes. Journal of Physical Chemistry C, 2012, 116, 22780-22785.	1.5	46
129	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
130	RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5336-5348.	5.9	44
131	Reversible Electrochemical Interface of Mg Metal and Conventional Electrolyte Enabled by Intermediate Adsorption. ACS Energy Letters, 2020, 5, 200-206.	8.8	44
132	Direct Contact versus Solvent-Shared Ion Pairs in NiCl2Electrolytes Monitored by Multiplet Effects at Ni(II) L Edge X-ray Absorption. Journal of Physical Chemistry B, 2007, 111, 4440-4445.	1.2	43
133	An ultra-high vacuum electrochemical flow cell for in situ/operando soft X-ray spectroscopy study. Review of Scientific Instruments, 2014, 85, 043106.	0.6	43
134	Chemical Modification of Graphene Oxide by Nitrogenation: An X-ray Absorption and Emission Spectroscopy Study. Scientific Reports, 2017, 7, 42235.	1.6	43
135	Elucidation of Anionic and Cationic Redox Reactions in a Prototype Sodium-Layered Oxide Cathode. ACS Applied Materials & Interfaces, 2019, 11, 41304-41312.	4.0	43
136	Band approach to the excitation-energy dependence of x-ray fluorescence ofTiO2. Physical Review B, 1999, 60, 2212-2217.	1.1	42
137	In situ study of oxidation states and structure of 4nm CoPt bimetallic nanoparticles during CO oxidation using X-ray spectroscopies in comparison with reaction turnover frequency. Catalysis Today, 2012, 182, 54-59.	2.2	42
138	Electronic properties of free-standing TiO₂ nanotube arrays fabricated by electrochemical anodization. Physical Chemistry Chemical Physics, 2015, 17, 22064-22071.	1.3	42
139	Robust lateral control of autonomous four-wheel independent drive electric vehicles considering the roll effects and actuator faults. Mechanical Systems and Signal Processing, 2020, 143, 106773.	4.4	42
140	Mismatching integration-enabled strains and defects engineering in LDH microstructure for high-rate and long-life charge storage. Nature Communications, 2022, 13, 1409.	5.8	42
141	Reversible dehydrogenation and rehydrogenation of cyclohexane and methylcyclohexane by single-site platinum catalyst. Nature Communications, 2022, 13, 1092.	5.8	41
142	A compact dispersive refocusing Rowland circle X-ray emission spectrometer for laboratory, synchrotron, and XFEL applications. Review of Scientific Instruments, 2017, 88, 073904.	0.6	40
143	Nanoconfinement of Molecular Magnesium Borohydride Captured in a Bipyridine-Functionalized Metalâ€“Organic Framework. ACS Nano, 2020, 14, 10294-10304.	7.3	40
144	Lifetime-vibrational interference effects in the resonantly excited x-ray-emission spectra of CO. Physical Review A, 1997, 55, 146-154.	1.0	39

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145	System forin situstudies of atmospheric corrosion of metal films using soft x-ray spectroscopy and quartz crystal microbalance. Review of Scientific Instruments, 2007, 78, 083110.	0.6	39
146	TiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>-SnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>:F interfacial electronic structure investigated by soft x-ray absorption spectroscopy. Physical Review B, 2012, 85, .	1.1	39
147	Adaptive fuzzy sliding mode control for coordinated longitudinal and lateral motions of multiple autonomous vehicles in a platoon. Science China Technological Sciences, 2017, 60, 576-586.	2.0	39
148	Lithium nitrate: A double-edged sword in the rechargeable lithium-sulfur cell. Energy Storage Materials, 2019, 16, 498-504.	9.5	39
149	Electron delocalization in cyanide-bridged coordination polymer electrodes for Li-ion batteries studied by soft x-ray absorption spectroscopy. Physical Review B, 2011, 84, .	1.1	38
150	Influence of crystal structure, ligand environment and morphology on CoL-edge XAS spectral characteristics in cobalt compounds. Journal of Synchrotron Radiation, 2015, 22, 1450-1458.	1.0	38
151	Electronic structure ofBi2Sr2CaCu2O8+Î´andTl2Ba2CaCu2O8: Near-O-1s-threshold excitation x-ray fluorescence studies. Physical Review B, 1995, 51, 11915-11923.	1.1	37
152	Atomically Thin Interfacial Suboxide Key to Hydrogen Storage Performance Enhancements of Magnesium Nanoparticles Encapsulated in Reduced Graphene Oxide. Nano Letters, 2017, 17, 5540-5545.	4.5	37
153	Tunable-excitation soft X-ray fluorescence spectroscopy of high-Tc superconductors: an inequivalent-site seeing story. Journal of Electron Spectroscopy and Related Phenomena, 2000, 110-111, 235-273.	0.8	36
154	Electronic structure studies ofV6O13by soft x-ray emission spectroscopy: Band-like and excitonic vanadium states. Physical Review B, 2004, 69, .	1.1	36
155	Coordinated Control of Autonomous Four Wheel Drive Electric Vehicles for Platooning and Trajectory Tracking Using a Hierarchical Architecture. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	36
156	A new thieno-isoindigo derivative-based Dâ€“A polymer with very low bandgap for high-performance ambipolar organic thin-film transistors. Polymer Chemistry, 2015, 6, 3970-3978.	1.9	36
157	Effects of Cd, Cu and Zn on Ricinus communis L. Growth in single element or co-contaminated soils: Pot experiments. Ecological Engineering, 2016, 90, 347-351.	1.6	36
158	Interfacial Insight from Operando XAS/TEM for Magnesium Metal Deposition with Borohydride Electrolytes. Chemistry of Materials, 2017, 29, 7183-7188.	3.2	36
159	RESONANT SOFT X-RAY EMISSION SPECTROSCOPY OF V2O3, VO2andNaV2O5. Surface Review and Letters, 2002, 09, 1369-1374.	0.5	35
160	Soft-x-ray spectroscopy experiment of liquids. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1231-1233.	0.9	35
161	The development of in situ photon-in/photon-out soft X-ray spectroscopy on beamline 7.0.1 at the ALS. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 71-78.	0.8	35
162	Perspectives of in situ/operando resonant inelastic X-ray scattering in catalytic energy materials science. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 282-292.	0.8	34

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