

Steve Heald

List of Publications by Year in descending order

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papers

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34105

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times ranked

9789
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferromagnetism in oxide semiconductors. <i>Materials Today</i> , 2006, 9, 28-35.	14.2	345
2	(De)Lithiation Mechanism of Li/SeS _x (x = 0-7) Batteries Determined by in Situ Synchrotron X-ray Diffraction and X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 8047-8056.	13.7	332
3	Intrinsic Ferromagnetism in Insulating Cobalt Doped AnataseTiO ₂ . <i>Physical Review Letters</i> , 2005, 94, 157204.	7.8	315
4	X-ray filter assembly for fluorescence measurements of x-ray absorption fine structure. <i>Review of Scientific Instruments</i> , 1979, 50, 1579-1582.	1.3	267
5	Nature of the charge carriers in electron-doped copper oxide superconductors. <i>Nature</i> , 1989, 337, 720-721.	27.8	232
6	Many-body effects on extended x-ray absorption fine structure amplitudes. <i>Physical Review B</i> , 1980, 21, 5521-5539.	3.2	220
7	Strong Room-Temperature Ferromagnetism in Co ²⁺ -Doped TiO ₂ Made from Colloidal Nanocrystals. <i>Journal of the American Chemical Society</i> , 2004, 126, 11640-11647.	13.7	219
8	Understanding the Effects of Concentration on the Solvation Structure of Ca ²⁺ in Aqueous Solution. I: The Perspective on Local Structure from EXAFS and XANES. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4688-4696.	2.5	201
9	Reduction of TcO ₄ ⁻ by sediment-associated biogenic Fe(II). <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3171-3187.	3.9	184
10	Coprecipitation of Uranium(VI) with Calcite: XAFS, micro-XAS, and luminescence characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3491-3503.	3.9	180
11	X-ray absorption studies of La _{2-x} (Ba,Sr) _x CuO ₄ superconductors. <i>Physical Review B</i> , 1987, 35, 7187-7190.	3.2	172
12	Speciation and characterization of arsenic in gold ores and cyanidation tailings using X-ray absorption spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 969-983.	3.9	169
13	Zinc and mechanical prowess in the jaws of Nereis, a marine worm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9144-9149.	7.1	166
14	Negligible Magnetism in Excellent Structural Quality Cr _x Ti _{1-x} O ₂ Anatase: Contrast with High-TC Ferromagnetism in Structurally Defective Cr _x Ti _{1-x} O ₂ . <i>Physical Review Letters</i> , 2005, 95, 217203.	7.8	164
15	Mixed valency, hole concentration, and T _c in YBa ₂ Cu ₃ O _{6+x} . <i>Physical Review B</i> , 1988, 38, 8893-8899.	3.2	162
16	Chemical natures and distributions of metal impurities in multicrystalline silicon materials. <i>Progress in Photovoltaics: Research and Applications</i> , 2006, 14, 513-531.	8.1	162
17	The Discovery and Study of Nanocrystalline TiO ₂ -(MoO ₃) Core-Shell Materials. <i>Journal of the American Chemical Society</i> , 2000, 122, 5138-5146.	13.7	160
18	X-ray-absorption near-edge-structure study of La _{2-x} (Ba,Sr) _x CuO _{4-y} superconductors. <i>Physical Review B</i> , 1987, 36, 5263-5274.	3.2	159

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19	Reduction of pertechnetate [Tc(VII)] by aqueous Fe(II) and the nature of solid phase redox products. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2137-2157.	3.9	154
20	Heterogeneous reduction of Tc(VII) by Fe(II) at the solid-water interface. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1521-1539.	3.9	148
21	Insights into the structural effects of layered cathode materials for high voltage sodium-ion batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1677-1693.	30.8	143
22	Anisotropic x-ray absorption in layered compounds. <i>Physical Review B</i> , 1977, 16, 5549-5559.	3.2	142
23	Changes in Uranium Speciation through a Depth Sequence of Contaminated Hanford Sediments. <i>Environmental Science & Technology</i> , 2006, 40, 2517-2524.	10.0	135
24	Glancing-angle extended x-ray-absorption fine structure and reflectivity studies of interfacial regions. <i>Physical Review B</i> , 1988, 38, 1016-1026.	3.2	129
25	X-ray absorption near-edge studies of substitution for Cu in $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)\text{O}_{7-\delta}$ (M=Fe, Co, Ni, and Zn). <i>Physical Review B</i> , 1990, 42, 2231-2241.	3.2	125
26	Low-Temperature Activation and Deactivation of High-Curie-Temperature Ferromagnetism in a New Diluted Magnetic Semiconductor: A Ni ²⁺ -Doped SnO ₂ . <i>Journal of the American Chemical Society</i> , 2005, 127, 14479-14487.	13.7	116
27	Dissolution of uranyl microprecipitates in subsurface sediments at Hanford Site, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4519-4537.	3.9	110
28	Flourescence detection of surface exafs. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1984, 103, 155-158.	2.1	109
29	Reduction and long-term immobilization of technetium by Fe(II) associated with clay mineral nontronite. <i>Chemical Geology</i> , 2009, 264, 127-138.	3.3	108
30	Pertechnetate (TcO ₄ ⁻) reduction by reactive ferrous iron forms in naturally anoxic, redox transition zone sediments from the Hanford Site, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 48-66.	3.9	104
31	XAFS and micro-XAFS at the PNC-CAT beamlines. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 347-349.	2.4	97
32	Thermal vacancies in solid He ³ . <i>Physical Review B</i> , 1984, 30, 2531-2541.	3.2	94
33	Heterogeneous reduction of uranyl by micas: Crystal chemical and solution controls. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2417-2435.	3.9	92
34	Kinetics of Reduction of Fe(III) Complexes by Outer Membrane Cytochromes MtrC and OmcA of <i>Shewanella oneidensis</i> MR-1. <i>Applied and Environmental Microbiology</i> , 2008, 74, 6746-6755.	3.1	89
35	Granule-by-granule reconstruction of a sandpile from x-ray microtomography data. <i>Physical Review E</i> , 2000, 62, 8175-8181.	2.1	85
36	Insight into the Capacity Fading Mechanism of Amorphous Se ₂ S ₅ Confined in Micro/Mesoporous Carbon Matrix in Ether-Based Electrolytes. <i>Nano Letters</i> , 2016, 16, 2663-2673.	9.1	83

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37	Extended-x-ray-absorption-fine-structure study of the Br ₂ -graphite system. <i>Physical Review B</i> , 1978, 17, 4069-4081.	3.2	81
38	Structure of the iron-containing core in ferritin by the extended x-ray absorption fine structure technique. <i>Journal of the American Chemical Society</i> , 1979, 101, 67-73.	13.7	80
39	Synthesis and properties of titanomagnetite (Fe ₃ ~xTi _x O ₄) nanoparticles: A tunable solid-state Fe(II/III) redox system. <i>Journal of Colloid and Interface Science</i> , 2012, 387, 24-38.	9.4	80
40	Gold-induced germanium crystallization. <i>Physical Review B</i> , 1992, 46, 9505-9510.	3.2	72
41	Reduction of Tc(VII) by Fe(II) Sorbed on Al (hydr)oxides. <i>Environmental Science & Technology</i> , 2008, 42, 5499-5506.	10.0	69
42	Variation of electronic and atomic structures in YBa ₂ (Cu ₁ ~xFe _x) ₃ O ₇ ~δ. <i>Physical Review B</i> , 1989, 39, 6681-6689.	3.2	67
43	Transition metals in photovoltaic-grade ingot-cast multicrystalline silicon: Assessing the role of impurities in silicon nitride crucible lining material. <i>Journal of Crystal Growth</i> , 2006, 287, 402-407.	1.5	67
44	Superconducting HxYBa ₂ Cu ₃ O ₇ : The role of H. <i>Physical Review B</i> , 1987, 36, 8798-8801.	3.2	65
45	Solid-State Lithium/Selenium-Sulfur Chemistry Enabled via a Robust Solid-Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2019, 9, 1802235.	19.5	63
46	Amplitude of the Extended-X-Ray-Absorption Fine Structure in Bromine Molecules. <i>Physical Review Letters</i> , 1979, 42, 1372-1375.	7.8	62
47	X-ray-absorption study of charge-density ordering in (Ba ₁ ~xK _x)BiO ₃ . <i>Physical Review B</i> , 1989, 40, 8828-8833.	3.2	62
48	Structural parameter determination in fluorescence EXAFS of concentrated samples. <i>Review of Scientific Instruments</i> , 1989, 60, 1021-1025.	1.3	60
49	Orientation-dependent x-ray-absorption near-edge studies of high-T _c superconductors. <i>Physical Review B</i> , 1988, 38, 761-764.	3.2	59
50	An investigation of chromate inhibitors on aluminium using fluorescence detection of X-ray absorption. <i>Corrosion Science</i> , 1987, 27, 391-399.	6.6	58
51	Oxidative dissolution potential of biogenic and abiogenic TcO ₂ in subsurface sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2299-2313.	3.9	54
52	Transition metal co-precipitation mechanisms in silicon. <i>Acta Materialia</i> , 2007, 55, 6119-6126.	7.9	53
53	Novel High-Pressure Monoclinic Metallic Phase of V_2O_3 V_2O_3 <i>Physical Review Letters</i> , 2014, 112, 056401.	7.8	53
54	Band-Gap Reduction and Dopant Interaction in Epitaxial La,Cr Co-doped SrTiO ₃ Thin Films. <i>Chemistry of Materials</i> , 2014, 26, 7073-7082.	6.7	50

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55	Room-temperature ferromagnetism in ion-implanted Co-doped TiO ₂ (110) rutile. Applied Physics Letters, 2004, 84, 4466-4468.	3.3	49
56	Competitive Reduction of Perchnetate (⁹⁹ TcO ₄ ⁻) by Dissimilatory Metal Reducing Bacteria and Biogenic Fe(II). Environmental Science & Technology, 2011, 45, 951-957.	10.0	48
57	Reduction of Uranyl in the Interlayer Region of Low Iron Micas under Anoxic and Aerobic Conditions. Environmental Science & Technology, 2006, 40, 5003-5009.	10.0	45
58	Tc(VII) reduction kinetics by titanomagnetite (Fe _{3-x} Ti _x O ₄) nanoparticles. Geochimica Et Cosmochimica Acta, 2012, 92, 67-81.	3.9	44
59	Iron K-edge X-ray absorption near-edge structure spectroscopy of aerodynamically levitated silicate melts and glasses. Chemical Geology, 2017, 453, 169-185.	3.3	44
60	Chromium(III) Hydroxide Solubility in the Aqueous K ⁺ -H ⁺ -OH ⁻ -CO ₂ -HCO ₃ ⁻ -CO ₃ ²⁻ -H ₂ O System: A Thermodynamic Model. Journal of Solution Chemistry, 2007, 36, 1261-1285.	1.2	43
61	Comparative study of Cu K-edge x-ray-absorption and Cu 2p _x -ray photoelectron spectra in copper oxide compounds. Physical Review B, 1991, 44, 5176-5189.	3.2	42
62	Donor-band ferromagnetism in cobalt-doped indium oxide. Physical Review B, 2011, 84, .	3.2	42
63	The impact of crystal symmetry on the electronic structure and functional properties of complex lanthanum chromium oxides. Journal of Materials Chemistry C, 2013, 1, 4527.	5.5	42
64	Cr(III) Adsorption by Cluster Formation on Boehmite Nanoplates in Highly Alkaline Solution. Environmental Science & Technology, 2019, 53, 11043-11055.	10.0	42
65	Concentration profiling using x-ray reflectivity: Application to Cu/Al interfaces. Journal of Applied Physics, 1989, 66, 1793-1799.	2.5	41
66	Cobalt-doped anatase TiO ₂ : A room temperature dilute magnetic dielectric material. Journal of Applied Physics, 2005, 97, 10D320.	2.5	40
67	Incorporation, valence state, and electronic structure of Mn and Cr in bulk single crystal Ga_2O_3 . Journal of Applied Physics, 2012, 111, 123716.	2.5	40
68	Geochemical and mineralogical investigation of uranium in multi-element contaminated, organic-rich subsurface sediment. Applied Geochemistry, 2014, 42, 77-85.	3.0	40
69	Electrostatic Self-Assembly Enabling Integrated Bulk and Interfacial Sodium Storage in 3D Titania-Graphene Hybrid. Nano Letters, 2018, 18, 336-346.	9.1	40
70	Effect of Coupled Dissolution and Redox Reactions on Cr(VI) Attenuation during Transport in the Sediments under Hyperalkaline Conditions. Environmental Science & Technology, 2003, 37, 3640-3646.	10.0	39
71	Fe(II)- and sulfide-facilitated reduction of ⁹⁹ Tc(VII)O ₄ ⁻ in microbially reduced hyporheic zone sediments. Geochimica Et Cosmochimica Acta, 2014, 136, 247-264.	3.9	39
72	Apical Cu-O bond in YBa ₂ Cu ₃ O _{7-x} superconductors by XAFS. Physica C: Superconductivity and Its Applications, 1993, 209, 331-334.	1.2	38

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73	Purification and Characterization of the [NiFe]-Hydrogenase of <i>Shewanella oneidensis</i> MR-1. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5584-5590.	3.1	38
74	Arsenic Speciation in Tissues of the Hyperaccumulator <i>P. calomelanos</i> var. <i>austroamericana</i> using X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2010, 44, 4735-4740.	10.0	37
75	In Situ X-ray Near-Edge Absorption Spectroscopy Investigation of the State of Charge of All-Vanadium Redox Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17920-17925.	8.0	37
76	Distribution and Role of Trace Transition Metals in Glycera Worm Jaws Studied with Synchrotron Microbeam Techniques. <i>Chemistry of Materials</i> , 2005, 17, 2927-2931.	6.7	36
77	The PNC/XOR X-ray microprobe station at APS sector 20. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 582, 215-217.	1.6	36
78	Selenium Preferentially Accumulates in the Eye Lens Following Embryonic Exposure: A Confocal X-ray Fluorescence Imaging Study. <i>Environmental Science & Technology</i> , 2015, 49, 2255-2261.	10.0	35
79	Chromium phase behavior in a multi-component borosilicate glass melt. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2114-2122.	3.1	32
80	XAFS characterization of mercury captured on cupric chloride-impregnated sorbents. <i>Fuel</i> , 2012, 93, 618-624.	6.4	32
81	Nature of hole doping in Nd_2NiO_4 and La_2NiO_4 : Comparison with La_2CuO_4 . <i>Physical Review B</i> , 1993, 47, 12365-12368.	3.2	31
82	New experimental developments for in situ XAFS studies of chemical reactions under hydrothermal conditions. <i>Chemical Geology</i> , 2000, 167, 89-103.	3.3	31
83	A short working distance multiple crystal x-ray spectrometer. <i>Review of Scientific Instruments</i> , 2008, 79, 123112.	1.3	31
84	Local structural variation with oxygen fugacity in Fe_2SiO_4 + fayalitic iron silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 203, 15-36.	3.9	31
85	Understanding the Electronic Structure Evolution of Epitaxial $\text{LaNi}_{1-x}\text{Fe}_x\text{O}_3$ Thin Films for Water Oxidation. <i>Nano Letters</i> , 2021, 21, 8324-8331.	9.1	31
86	XAFS at the Pacific Northwest Consortium-Collaborative Access Team undulator beamline. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 342-344.	2.4	30
87	Insights into the Distinct Lithiation/Sodiation of Porous Cobalt Oxide by in Operando Synchrotron X-ray Techniques and Ab Initio Molecular Dynamics Simulations. <i>Nano Letters</i> , 2017, 17, 953-962.	9.1	30
88	Tungsten-carbon multilayer composition and the effects of annealing: A glancing angle extended x-ray absorption fine structure study. <i>Journal of Applied Physics</i> , 1989, 65, 4250-4255.	2.5	29
89	Silicide formation and structural evolution in Fe-, Co-, and Ni-implanted silicon. <i>Physical Review B</i> , 1992, 46, 4077-4085.	3.2	29
90	Lattice strains in disordered mixed salts. <i>Solid State Communications</i> , 1996, 99, 67-71.	1.9	28

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91	Residual Waste from Hanford Tanks 241-C-203 and 241-C-204. 1. Solids Characterization. Environmental Science & Technology, 2006, 40, 3749-3754.	10.0	28
92	Interface-Induced Polarization in SrTiO ₃ /LaCrO ₃ Superlattices. Advanced Materials Interfaces, 2016, 3, 1500779.	3.7	28
93	EXAFS at grazing incidence: Data collection and analysis. Review of Scientific Instruments, 1992, 63, 873-878.	1.3	26
94	Local oxygen octahedra rotations in Ba _{1-x} K _x BiO ₃ and BaBiO ₃ . Solid State Communications, 1997, 101, 801-806.	1.9	25
95	Synthesis of Organically Templated Nanoporous Tin(II/IV) Phosphate for Radionuclide and Metal Sequestration. Inorganic Chemistry, 2006, 45, 2382-2384.	4.0	25
96	Extremely large d ₀ magnetism in krypton implanted polar ZnO films. Journal of Materials Chemistry C, 2019, 7, 1138-1145.	5.5	25
97	Microbial Reduction of Intragrain U(VI) in Contaminated Sediment. Environmental Science & Technology, 2009, 43, 4928-4933.	10.0	24
98	Lattice vibrational studies of superconducting YBa ₂ Cu ₃ O ₇ by polarized extended x-ray-absorption fine-structure measurements. Physical Review B, 1988, 38, 6568-6574.	3.2	23
99	Pathways of Aqueous Cr(VI) Attenuation in a Slightly Alkaline Oxidic Subsurface. Environmental Science & Technology, 2009, 43, 1071-1077.	10.0	23
100	Electronic and Optical Properties of a Semiconducting Spinel (Fe ₂ CrO ₄). Advanced Functional Materials, 2017, 27, 1605040.	14.9	23
101	Solid state synthesis of layered sodium manganese oxide for sodium-ion battery by in-situ high energy X-ray diffraction and X-ray absorption near edge spectroscopy. Journal of Power Sources, 2017, 341, 114-121.	7.8	23
102	Growth of several quantum crystals: CD ₄ , 4He and 3He. Journal of Crystal Growth, 1977, 42, 370-375.	1.5	21
103	Sequential Ion Implantation synthesis of ternary metal silicides. Applied Physics Letters, 1993, 63, 791-793.	3.3	21
104	Fast Detection Allowing Analysis of Metalloprotein Electronic Structure by X-ray Emission Spectroscopy at Room Temperature. Journal of Physical Chemistry Letters, 2012, 3, 1858-1864.	4.6	21
105	Strategies and limitations for fluorescence detection of XAFS at high flux beamlines. Journal of Synchrotron Radiation, 2015, 22, 436-445.	2.4	21
106	Transmission electron microscopy of interfaces utilizing mean inner potential differences between materials. Journal of Applied Physics, 1986, 60, 4316-4318.	2.5	20
107	Rare-earth valence and doping in T ₂ T ₂ ™, and T [*] -phase R ₂ CuO ₄ (R=rare earths). Physical Review B, 1992, 45, 2593-2596.	3.2	20
108	Biotic and Abiotic Reduction and Solubilization of Pu(IV)O ₂ ·xH ₂ O(am) as Affected by Anthraquinone-2,6-disulfonate (AQDS) and Ethylenediaminetetraacetate (EDTA). Environmental Science & Technology, 2012, 46, 2132-2140.	10.0	20

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109	Modulated anisotropic electronic charge transfer in perovskite $\text{Pr}_{0.67}\text{Sr}_{0.33}\text{TiO}_3$	3.2	20
110	Characterization of natural titanomagnetites ($\text{Fe}_{3-x}\text{Ti}_x\text{O}_4$) for studying heterogeneous electron transfer to Tc(VII) in the Hanford subsurface. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 114-127.	3.9	20
111	Formation of Li_2MnO_3 investigated by in situ synchrotron probes. <i>Journal of Power Sources</i> , 2014, 266, 341-346.	7.8	20
112	Incorporation of pertechnetate and perrhenate into corroded steel surfaces studied by X-ray absorption fine structure spectroscopy. <i>Radiochimica Acta</i> , 2012, 100, 243-253.	1.2	19
113	A XANES study of LiVPO_4F : a factor analysis approach. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3254.	2.8	19
114	Pressure-induced isostructural phase transition and charge transfer in superconducting FeSe. <i>Journal of Alloys and Compounds</i> , 2018, 767, 811-819.	5.5	19
115	Hybrid Sorbents for ^{129}I Capture from Contaminated Groundwater. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26113-26126.	8.0	19
116	Structure of atmosphere RFe_2 compounds using EXAFS. <i>Journal of Magnetism and Magnetic Materials</i> , 1978, 7, 188-189.	2.3	18
117	Standing-wave-assisted extended x-ray absorption fine structure study of a Ni/Ti multilayer. <i>Journal of Applied Physics</i> , 1989, 65, 290-293.	2.5	18
118	High-pressure, high-temperature x-ray absorption fine structure transmission cell for the study of aqueous ions with low absorption-edge energies. <i>Review of Scientific Instruments</i> , 2004, 75, 5228-5231.	1.3	18
119	Ta, Ti and Hf effects on Nb_3Sn high-field performance: temperature-dependent dopant occupancy and failure of Kramer extrapolation. <i>Superconductor Science and Technology</i> , 2019, 32, 124003.	3.5	18
120	An X-ray filter assembly for fluorescence EXAFS measurements. <i>Nuclear Instruments & Methods</i> , 1980, 172, 397-399.	1.2	17
121	EXAFS study of Br_2 -graphite intercalation compounds. <i>Synthetic Metals</i> , 1980, 1, 249-255.	3.9	17
122	Novel Superstructure-Phase Two-Dimensional Material 1T-VSe_2 at High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 380-386.	4.6	17
123	Extended x-ray-absorption fine-structure study of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ superconductors. <i>Physical Review B</i> , 1987, 36, 8401-8407.	3.2	16
124	Glancing angle x-ray study of the effect of oxygen on interface reactions in Al/Ni bilayers. <i>Journal of Materials Research</i> , 1991, 6, 935-942.	2.6	16
125	Charge redistribution in AuZn: An x-ray-absorption near-edge-structure study. <i>Physical Review B</i> , 1994, 49, 3709-3712.	3.2	16
126	Surface-polarity-dependent ferromagnetism in arsenic-implanted ZnO films prepared by MBE. <i>Materials Letters</i> , 2015, 144, 12-14.	2.6	16

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127	Evaluation of materials for iodine and technetium immobilization through sorption and redox-driven processes. <i>Science of the Total Environment</i> , 2020, 716, 136167.	8.0	16
128	Cryostat for accurate x-ray diffractometry of crystalline helium to 60 mK and 25 MPa. <i>Review of Scientific Instruments</i> , 1977, 48, 316-319.	1.3	15
129	Operation of a dynamically bent sagittally focusing double crystal monochromator for XAFS studies. <i>Review of Scientific Instruments</i> , 1992, 63, 880-884.	1.3	15
130	Density and defects in thin metal films using x-ray reflectivity and variable-energy positrons. <i>Journal of Applied Physics</i> , 1992, 72, 4669-4673.	2.5	15
131	Treatment of Nitric Acid-, U(VI)-, and Tc(VII)-Contaminated Groundwater in Intermediate-Scale Physical Models of an In Situ Biobarrier. <i>Environmental Science & Technology</i> , 2009, 43, 1952-1961.	10.0	15
132	Evidence from EXAFS for Different Ta/Ti Site Occupancy in High Critical Current Density Nb ₃ Sn Superconductor Wires. <i>Scientific Reports</i> , 2018, 8, 4798.	3.3	15
133	Control of magnetic anisotropy by orbital hybridization with charge transfer in (La _{0.67} Sr _{0.33} MnO ₃) _n /(SrTiO ₃) _n superlattice. <i>NPG Asia Materials</i> , 2018, 10, 931-942.	7.9	15
134	Origin of the enhanced Nb ₃ Sn performance by combined Hf and Ta doping. <i>Scientific Reports</i> , 2021, 11, 17845.	3.3	15
135	Unusual Eu valence and magnetic behavior in EuRh ₃ B ₂ . <i>Physical Review Letters</i> , 1985, 55, 316-319.	7.8	14
136	An Efficient and Robust Surface-Modified Iron Electrode for Oxygen Evolution in Alkaline Water Electrolysis. <i>Journal of the Electrochemical Society</i> , 2018, 165, F392-F400.	2.9	14
137	Glancing angle XAFS and X-ray reflectivity studies of transition-metal/aluminium interfaces. <i>Faraday Discussions of the Chemical Society</i> , 1990, 89, 21.	2.2	12
138	Pore-Scale Characterization of Biogeochemical Controls on Iron and Uranium Speciation under Flow Conditions. <i>Environmental Science & Technology</i> , 2012, 46, 7992-8000.	10.0	12
139	Magnetic properties of In ₂ O ₃ containing Fe ₃ O ₄ nanoparticles. <i>Physical Review B</i> , 2014, 90, .	3.2	12
140	X-ray absorption measurements on nickel cathode of sodium-beta alumina batteries: Fe-Ni-Cl chemical associations. <i>Journal of Power Sources</i> , 2014, 247, 517-526.	7.8	12
141	Study of the structure of the transition metal-binding site of concanavalin A by extended X-ray absorption fine-structure spectroscopy. <i>Journal of Molecular Biology</i> , 1979, 135, 501-506.	4.2	11
142	X-ray diffraction study of thermal vacancies in solid helium-3. <i>Solid State Communications</i> , 1983, 47, 807-810.	1.9	11
143	Unoccupied-state electronic structure in (NiyPt1-y)75P25andNi100-xPmetallic glasses. <i>Physical Review B</i> , 1985, 32, 7670-7675.	3.2	11
144	Log spiral of revolution highly oriented pyrolytic graphite monochromator for fluorescence x-ray absorption edge fine structure. <i>Review of Scientific Instruments</i> , 2000, 71, 3267-3273.	1.3	11

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