

Frank M F De Groot

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3036964/publications.pdf>

Version: 2024-02-01

333
papers

25,909
citations

6592

79
h-index

7931

149
g-index

344
all docs

344
docs citations

344
times ranked

22492
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen 1s-x-ray-absorption edges of transition-metal oxides. <i>Physical Review B</i> , 1989, 40, 5715-5723.	1.1	1,102
2	In situ XPS analysis of various iron oxide films grown by NO ₂ -assisted molecular-beam epitaxy. <i>Physical Review B</i> , 1999, 59, 3195-3202.	1.1	1,002
3	2p-x-ray absorption of 3d transition-metal compounds: An atomic multiplet description including the crystal field. <i>Physical Review B</i> , 1990, 42, 5459-5468.	1.1	863
4	High-Resolution X-ray Emission and X-ray Absorption Spectroscopy. <i>Chemical Reviews</i> , 2001, 101, 1779-1808.	23.0	710
5	Multiplet effects in X-ray spectroscopy. <i>Coordination Chemistry Reviews</i> , 2005, 249, 31-63.	9.5	646
6	Controlled-valence properties of La _{1-x} Sr _x FeO ₃ and La _{1-x} Sr _x MnO ₃ studied by soft-x-ray absorption spectroscopy. <i>Physical Review B</i> , 1992, 46, 4511-4519.	1.1	619
7	The CTM4XAS program for EELS and XAS spectral shape analysis of transition metal L edges. <i>Micron</i> , 2010, 41, 687-694.	1.1	618
8	L _{2,3} -x-ray-absorption edges of d ⁰ compounds: K ⁺ , Ca ²⁺ , Sc ³⁺ , and Ti ⁴⁺ in Oh (octahedral) symmetry. <i>Physical Review B</i> , 1990, 41, 928-937.	1.1	586
9	Electronic structure of CoO, Li-doped CoO, and LiCoO ₂ . <i>Physical Review B</i> , 1991, 44, 6090-6103.	1.1	573
10	Single platinum atoms embedded in nanoporous cobalt selenide as electrocatalyst for accelerating hydrogen evolution reaction. <i>Nature Communications</i> , 2019, 10, 1743.	5.8	430
11	Nanoscale chemical imaging of a working catalyst by scanning transmission X-ray microscopy. <i>Nature</i> , 2008, 456, 222-225.	13.7	376
12	Oxygen K-edge X-ray Absorption Spectra. <i>Chemical Reviews</i> , 2020, 120, 4056-4110.	23.0	299
13	Studies of copper valence states with Cu L ₃ -x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1989, 39, 1541-1545.	1.1	268
14	Probing the 3d Spin Momentum with X-ray Emission Spectroscopy: The Case of Molecular-Spin Transitions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11647-11653.	1.2	265
15	Oxygen 1s-x-ray absorption of tetravalent titanium oxides: A comparison with single-particle calculations. <i>Physical Review B</i> , 1993, 48, 2074-2080.	1.1	264
16	Evolution of the spectral function in Mott-Hubbard systems with d ¹ configuration. <i>Physical Review Letters</i> , 1992, 69, 1796-1799.	2.9	262
17	Supramolecular control of the magnetic anisotropy in two-dimensional high-spin Fe arrays at a metal interface. <i>Nature Materials</i> , 2009, 8, 189-193.	13.3	262
18	Orbital-specific mapping of the ligand exchange dynamics of Fe(CO) ₅ in solution. <i>Nature</i> , 2015, 520, 78-81.	13.7	247

#	ARTICLE	IF	CITATIONS
19	The 1s x-ray absorption pre-edge structures in transition metal oxides. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 104207.	0.7	231
20	Effects of manganese oxide promoter on the CO and H ₂ adsorption properties of titania-supported cobalt Fischer-Tropsch catalysts. <i>Journal of Catalysis</i> , 2007, 246, 91-99.	3.1	225
21	X-ray Absorption Near-Edge Structure (XANES) Spectroscopy. <i>Reviews in Mineralogy and Geochemistry</i> , 2014, 78, 75-138.	2.2	218
22	Fe L-Edge XAS Studies of K ₄ [Fe(CN) ₆] and K ₃ [Fe(CN) ₆]: A Direct Probe of Back-Bonding. <i>Journal of the American Chemical Society</i> , 2006, 128, 10442-10451.	6.6	215
23	Rational strain engineering of single-atom ruthenium on nanoporous MoS ₂ for highly efficient hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 1687.	5.8	210
24	Identifying Electrocatalytic Sites of the Nanoporous Copper-Ruthenium Alloy for Hydrogen Evolution Reaction in Alkaline Electrolyte. <i>ACS Energy Letters</i> , 2020, 5, 192-199.	8.8	209
25	High-resolution manganese x-ray fluorescence spectroscopy. Oxidation-state and spin-state sensitivity. <i>Journal of the American Chemical Society</i> , 1994, 116, 2914-2920.	6.6	206
26	Dynamic active-site generation of atomic iridium stabilized on nanoporous metal phosphides for water oxidation. <i>Nature Communications</i> , 2020, 11, 2701.	5.8	204
27	Ligand field strengths and oxidation states from manganese L-edge spectroscopy. <i>Journal of the American Chemical Society</i> , 1991, 113, 7937-7940.	6.6	202
28	L-edge X-ray Absorption Spectroscopy of Non-Heme Iron Sites: Experimental Determination of Differential Orbital Covalency. <i>Journal of the American Chemical Society</i> , 2003, 125, 12894-12906.	6.6	201
29	Probing depth of soft x-ray absorption spectroscopy measured in total-electron-yield mode. <i>Surface and Interface Analysis</i> , 1992, 18, 65-69.	0.8	186
30	Spin and orbital occupation and phase transitions in V ₂ O ₃ . <i>Physical Review B</i> , 2000, 61, 11506-11509.	1.1	183
31	X-ray absorption study of the hole concentration dependence on stoichiometry in YBa ₂ Cu ₃ O _x . <i>Physical Review B</i> , 1988, 38, 6483-6489.	1.1	178
32	Calculations of magnetic x-ray dichroism in the 3d absorption spectra of rare-earth compounds. <i>Physical Review B</i> , 1988, 37, 2086-2093.	1.1	177
33	The Electronic Structure of Mn in Oxides, Coordination Complexes, and the Oxygen-Evolving Complex of Photosystem II Studied by Resonant Inelastic X-ray Scattering. <i>Journal of the American Chemical Society</i> , 2004, 126, 9946-9959.	6.6	177
34	Soft-x-ray-absorption studies of the location of extra charges induced by substitution in controlled-valence materials. <i>Physical Review B</i> , 1991, 44, 5419-5422.	1.1	172
35	In situ X-ray absorption spectroscopy of transition metal based water oxidation catalysts. <i>Chemical Society Reviews</i> , 2017, 46, 102-125.	18.7	172
36	Doping-induced changes in the electronic structure of La _x Sr _{1-x} TiO ₃ : Limitation of the one-electron rigid-band model and the Hubbard model. <i>Physical Review B</i> , 1992, 46, 9841-9844.	1.1	170

#	ARTICLE	IF	CITATIONS
37	Femtosecond Soft X-ray Spectroscopy of Solvated Transition-Metal Complexes: Deciphering the Interplay of Electronic and Structural Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 880-884.	2.1	169
38	Ab Initio Calculations of X-ray Spectra: Atomic Multiplet and Molecular Orbital Effects in a Multiconfigurational SCF Approach to the L-Edge Spectra of Transition Metal Complexes. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3565-3570.	2.1	168
39	In Situ X-ray Absorption of Co/Mn/TiO ₂ Catalysts for Fischer-Tropsch Synthesis. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16201-16207.	1.2	165
40	Electronic and Molecular Structure of Photoexcited [RuII(bpy) ₃] ²⁺ Probed by Picosecond X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 5001-5009.	6.6	165
41	Accuracy of the spin sum rule in XMCD for the transition-metal L edges from manganese to copper. <i>Physical Review B</i> , 2009, 80, .	1.1	165
42	Evolution of Fe species during the synthesis of over-exchanged Fe/ZSM5 obtained by chemical vapor deposition of FeCl ₃ . <i>Journal of Catalysis</i> , 2003, 213, 251-271.	3.1	164
43	Identification of CO Adsorption Sites in Supported Pt Catalysts Using High-Energy-Resolution Fluorescence Detection X-ray Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16162-16164.	1.2	163
44	Resonant X-Ray Raman Spectra of Cudd Excitations in Sr ₂ CuO ₂ Cl ₂ . <i>Physical Review Letters</i> , 1998, 80, 5204-5207.	2.9	162
45	Mn promotion effects in Co/TiO Fischer-Tropsch catalysts as investigated by XPS and STEM-EELS. <i>Journal of Catalysis</i> , 2005, 230, 301-308.	3.1	154
46	Soft-x-ray-absorption studies of the electronic-structure changes through the VO ₂ phase transition. <i>Physical Review B</i> , 1991, 43, 7263-7266.	1.1	153
47	2p X-ray absorption of titanium in minerals. <i>Physics and Chemistry of Minerals</i> , 1992, 19, 140-147.	0.3	152
48	Fe L-Edge X-ray Absorption Spectroscopy of Low-Spin Heme Relative to Non-heme Fe Complexes: Delocalization of Fe d-Electrons into the Porphyrin Ligand. <i>Journal of the American Chemical Society</i> , 2007, 129, 113-125.	6.6	137
49	Phase Transformation and Lithiation Effect on Electronic Structure of Li _x FePO ₄ : An In-Depth Study by Soft X-ray and Simulations. <i>Journal of the American Chemical Society</i> , 2012, 134, 13708-13715.	6.6	136
50	Photo-Induced Spin-State Conversion in Solvated Transition Metal Complexes Probed via Time-Resolved Soft X-ray Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 6809-6816.	6.6	135
51	Differences between L ₃ and L ₂ x-ray absorption spectra of transition metal compounds. <i>Journal of Chemical Physics</i> , 1994, 101, 6570-6576.	1.2	134
52	3D nanoporous iridium-based alloy microwires for efficient oxygen evolution in acidic media. <i>Nano Energy</i> , 2019, 59, 146-153.	8.2	134
53	Oxygen 1s and cobalt 2p X-ray absorption of cobalt oxides. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 2277-2288.	0.7	132
54	In-situ Scanning Transmission X-ray Microscopy of Catalytic Solids and Related Nanomaterials. <i>ChemPhysChem</i> , 2010, 11, 951-962.	1.0	129

#	ARTICLE	IF	CITATIONS
55	Mixed-valence behavior and strong correlation effects of metal phthalocyanines adsorbed on metals. <i>Physical Review B</i> , 2011, 83, .	1.1	128
56	Electric in-plane polarization in multiferroic CoFe ₂ O ₄ /BaTiO ₃ nanocomposite tuned by magnetic fields. <i>Nature Communications</i> , 2013, 4, 2051.	5.8	126
57	Pressure-Induced Magnetic Switching and Linkage Isomerism in K _{0.4} Fe ₄ [Cr(CN) ₆] _{2.8} ·16H ₂ O: X-ray Absorption and Magnetic Circular Dichroism Studies. <i>Journal of the American Chemical Society</i> , 2008, 130, 15519-15532.	6.6	121
58	Fluorescence yield detection: Why it does not measure the X-ray absorption cross section. <i>Solid State Communications</i> , 1994, 92, 991-995.	0.9	120
59	Soft X-ray absorption spectroscopy of vanadium oxides. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993, 62, 185-195.	0.8	119
60	The iron L edges: Fe 2p X-ray absorption and electron energy loss spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 187, 32-48.	0.8	118
61	X-ray Absorption Spectroscopy of Mn/Co/TiO ₂ Fischer-Tropsch Catalysts: Relationships between Preparation Method, Molecular Structure, and Catalyst Performance. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8626-8639.	1.2	111
62	Multiplet calculations of L _{2,3} -x-ray absorption near-edge structures for 3d transition-metal compounds. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 104208.	0.7	110
63	Femtosecond M _{2,3} -Edge Spectroscopy of Transition-Metal Oxides: Photoinduced Oxidation State Change in Fe_2O_3 . <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3667-3671.	2.1	110
64	1s2p Resonant Inelastic X-ray Scattering of Iron Oxides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20751-20762.	1.2	108
65	Spectral sharpening of the PtLedges by high-resolution x-ray emission. <i>Physical Review B</i> , 2002, 66, .	1.1	104
66	The role of Cu on the reduction behavior and surface properties of Fe-based Fischer-Tropsch catalysts. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 667-680.	1.3	96
67	Hard X-ray Nanotomography of Catalytic Solids at Work. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11986-11990.	7.2	96
68	Site-Selective EXAFS in Mixed-Valence Compounds Using High-Resolution Fluorescence Detection: A Study of Iron in Prussian Blue. <i>Inorganic Chemistry</i> , 2002, 41, 3121-3127.	1.9	95
69	Unoccupied electronic states of CuO: An oxygen 1s x-ray-absorption spectroscopy investigation. <i>Physical Review B</i> , 1989, 39, 4886-4890.	1.1	90
70	Angular dependence of core hole screening in LiCoO_2 . <i>Physical Review B</i> , 1991, 43, 6899-6907.	1.1	90
71	Fine structure of the Ca 2p x-ray-absorption edge for bulk compounds, surfaces, and interfaces. <i>Physical Review B</i> , 1991, 43, 6899-6907.	1.1	89
72	Spin-polarized x-ray emission of 3d transition-metal ions: A comparison via $K_{\alpha 1}$ and $K_{\alpha 2}$ detection. <i>Physical Review B</i> , 1997, 56, 4553-4564.	1.1	89

#	ARTICLE	IF	CITATIONS
91	Electronic structure and the metal-semiconductor transition in $\text{BaPb}_{1-x}\text{Bi}_x\text{O}_3$ studied by photoemission and x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1993, 48, 16917-16925.	1.1	70
92	Reactivity of Fe-binuclear complexes in over-exchanged Fe/ZSM5, studied by in situ XAFS spectroscopy Part 1: Heat treatment in He and O ₂ . <i>Journal of Catalysis</i> , 2003, 215, 279-293.	3.1	70
93	Local spin-flip spectral distribution obtained by resonant x-ray Raman scattering. <i>Physical Review B</i> , 1998, 57, 14584-14587.	1.1	69
94	Soft X-ray magnetic circular dichroism study of the colossal magnetoresistance compound $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1997, 86, 115-118.	0.8	67
95	1s ₂ resonant inelastic x-ray scattering in $\pm\text{Fe}_2\text{O}_3$. <i>Physical Review B</i> , 1998, 58, 13452-13458.	1.1	66
96	Co Polyoxometalates and a $\text{Co}_{3-x}\text{O}_{4-x}$ Thin Film Investigated by L-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4173-4179.	1.5	66
97	Imaging and quantifying the morphology of an organic-inorganic nanoparticle at the sub-nanometre level. <i>Nature Nanotechnology</i> , 2010, 5, 538-544.	15.6	65
98	Phase Segregation in Cerium-Lanthanum Solid Solutions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9984-9990.	1.2	64
99	L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3641-3647.	2.1	64
100	Combined EXAFS and STEM-EELS study of the electronic state and location of Mn as promoter in Co-based Fischer-Tropsch catalysts. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 568-572.	1.3	63
101	X-ray Imaging of Zeolite Particles at the Nanoscale: Influence of Steaming on the State of Aluminum and the Methanol-to-Olefin Reaction. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3616-3619.	7.2	62
102	Probing the Influence of X-rays on Aqueous Copper Solutions Using Time-Resolved in Situ Combined Video/X-ray Absorption Near-Edge/Ultraviolet-Visible Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17671-17677.	1.2	61
103	On the electronic structure of Cu(III) and Ni(III) in $\text{La}_2\text{Li}_{1/2}\text{Cu}_{1/2}\text{O}_4$, $\text{Nd}_2\text{Li}_{1/2}\text{Ni}_{1/2}\text{O}_4$, and Cs_2KCuF_6 . <i>Chemical Physics</i> , 1998, 232, 63-74.	0.9	60
104	Genesis of Co/SiO ₂ Catalysts: XAS Study at the Cobalt L _{III,II} Absorption Edges. <i>Journal of Catalysis</i> , 2000, 189, 456-462.	3.1	60
105	Electronic structure of LaFeAsO x-ray absorption spectroscopy. <i>Physical Review B</i> , 2008, 78, .		
106	Dissecting Local Atomic and Intermolecular Interactions of Transition-Metal Ions in Solution with Selective X-ray Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3448-3453.	2.1	59
107	A Highly Active and Selective Manganese Oxide Promoted Cobalt-on-Silica Fischer-Tropsch Catalyst. <i>Topics in Catalysis</i> , 2011, 54, 768-777.	1.3	57
108	Self-Activated Catalytic Sites on Nanoporous Dilute Alloy for High-Efficiency Electrochemical Hydrogen Evolution. <i>ACS Nano</i> , 2021, 15, 5333-5340.	7.3	53

#	ARTICLE	IF	CITATIONS
109	Local-spin-selective x-ray absorption and x-ray magnetic circular dichroism of MnP. <i>Physical Review B</i> , 1995, 51, 1045-1052.	1.1	52
110	Electronic Structure of CoO Nanocrystals and a Single Crystal Probed by Resonant X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15218-15230.	1.5	51
111	Interplay between nanoscale reactivity and bulk performance of H-ZSM-5 catalysts during the methanol-to-hydrocarbons reaction. <i>Journal of Catalysis</i> , 2013, 307, 185-193.	3.1	51
112	Upside Down: A New Molecular Structure for Supported VO ₄ Catalysts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10223-10233.	1.2	50
113	Characterisation, degradation and regeneration of luminescent Ag ₂₉ clusters in solution. <i>Nanoscale</i> , 2016, 8, 19901-19909.	2.8	50
114	Local Electronic and Magnetic Structure of Ni below and above T _C : A Spin-Resolved Circularly Polarized Resonant Photoemission Study. <i>Physical Review Letters</i> , 1997, 79, 3510-3513.	2.9	49
115	Influence of the core hole on K ² emission following photoionization or orbital electron capture: A comparison using MnO and Fe ₂ O ₃ . <i>Physical Review B</i> , 2001, 64, .	1.1	49
116	Range-extended EXAFS at the L _{2,3} edge of rare earths using high-energy-resolution fluorescence detection: A study of La in LaOCl. <i>Physical Review B</i> , 2005, 72, .	1.1	49
117	Ligand-field symmetry effects in Fe(II) polypyridyl compounds probed by transient X-ray absorption spectroscopy. <i>Faraday Discussions</i> , 2012, 157, 463.	1.6	49
118	Differences between L ₃ and L ₂ X-ray absorption spectra. <i>Physica B: Condensed Matter</i> , 1995, 208-209, 15-18.	1.3	48
119	Metal-to-ligand and ligand-to-metal charge transfer in thin films of Prussian blue analogues investigated by X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5882.	1.3	48
120	Identification of the dominant photochemical pathways and mechanistic insights to the ultrafast ligand exchange of Fe(CO) ₅ to Fe(CO) ₄ EtOH. <i>Structural Dynamics</i> , 2016, 3, 043204.	0.9	48
121	X-ray absorption of transition metal oxides: An overview of the theoretical approaches. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993, 62, 111-130.	0.8	47
122	Intrinsic deviations in fluorescence yield detected x-ray absorption spectroscopy: the case of the transition metal L _{2,3} edges. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 452201.	0.7	47
123	Jahn-Teller distortion driven magnetic polarons in magnetite. <i>Nature Communications</i> , 2017, 8, 15929.	5.8	47
124	Electronic parameters in cobalt-based perovskite-type oxides as descriptors for chemocatalytic reactions. <i>Nature Communications</i> , 2020, 11, 652.	5.8	46
125	Oxygen Binding to Cobalt and Iron Phthalocyanines As Determined from in Situ X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25422-25428.	1.5	45
126	Mn and Co Charge and Spin Evolutions in LaMn _{1-x} Co _x O ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8167-8174.	1.5	45

#	ARTICLE	IF	CITATIONS
127	2p x-ray absorption spectroscopy of 3d transition metal systems. Journal of Electron Spectroscopy and Related Phenomena, 2021, 249, 147061.	0.8	44
128	Valence electron distribution in La ₂ Li _{1/2} Cu _{1/2} O ₄ , Nd ₂ Li _{1/2} Ni _{1/2} O ₄ , and La ₂ Li _{1/2} Co _{1/2} O ₄ . Chemical Physics Letters, 1998, 297, 321-328.	1.2	43
129	New frontiers in X-ray spectroscopy in heterogeneous catalysis: Using Fe/ZSM-5 as test-system. Catalysis Today, 2005, 110, 228-238.	2.2	43
130	Direct Contact versus Solvent-Shared Ion Pairs in NiCl ₂ Electrolytes Monitored by Multiplet Effects at Ni(II) L Edge X-ray Absorption. Journal of Physical Chemistry B, 2007, 111, 4440-4445.	1.2	43
131	Hydrogen-Induced Transition from Dissociative to Molecular Chemisorption of CO on Vanadium Clusters. Journal of the American Chemical Society, 2007, 129, 2516-2520.	6.6	43
132	Active phase distribution changes within a catalyst particle during Fischer-Tropsch synthesis as revealed by multi-scale microscopy. Catalysis Science and Technology, 2016, 6, 4438-4449.	2.1	43
133	Covalency in oxygen chemisorption as probed by x-ray absorption. Physical Review B, 1989, 40, 7924-7927.	1.1	42
134	Capturing the Genesis of an Active Fischer-Tropsch Synthesis Catalyst with Operando X-ray Nanospectroscopy. Angewandte Chemie - International Edition, 2018, 57, 11957-11962.	7.2	42
135	Direct Evidence of the Role of Hybridization in the X-Ray Magnetic Circular Dichroism of f _± -Ce. Physical Review Letters, 1995, 75, 4654-4657.	2.9	41
136	Phase transition in LiVO ₂ studied by near-edge x-ray-absorption spectroscopy. Physical Review B, 1997, 55, 15500-15505.	1.1	41
137	2p _{3s} 3p, 2p _{3p} 3p, and 2p _{3s} 3s resonant Auger spectroscopy from NiO. Physical Review B, 1999, 59, 9933-9942.	1.1	41
138	In-Situ Soft X-ray Absorption of Over-exchanged Fe/ZSM5. Journal of Physical Chemistry B, 2003, 107, 13069-13075.	1.2	41
139	Charge transfer at very high pressure in NiO. Physical Review B, 2003, 67, .	1.1	40
140	Star-Shaped Molecule of Mn ^{II} O ₆ Core with an <i>S</i> _t = 10 High-Spin State. A Theoretical and Experimental Study with XPS, XMCD, and Other Magnetic Methods. Inorganic Chemistry, 2008, 47, 4605-4617.	1.9	39
141	The Effect of Charge on CO Binding in Rhodium Carbonyls: From Bridging to Terminal CO. Journal of the American Chemical Society, 2008, 130, 2126-2127.	6.6	39
142	Strong K -edge Magnetic Circular Dichroism Observed in Photon-in Photon-out Spectroscopy. Physical Review Letters, 2010, 105, 037202.	2.9	39
143	Proof for trivalent Sc ions in Sc ₂ @C ₈₄ from high-energy spectroscopy. Physical Review B, 2000, 62, 13196-13201.	1.1	38
144	The Interpretation of Sulfur K-Edge XANES Spectra: A Case Study on Thiophenic and Aliphatic Sulfur Compounds. Journal of Physical Chemistry A, 2009, 113, 2750-2756.	1.1	38

#	ARTICLE	IF	CITATIONS
145	Electron delocalization in cyanide-bridged coordination polymer electrodes for Li-ion batteries studied by soft x-ray absorption spectroscopy. <i>Physical Review B</i> , 2011, 84, .	1.1	38
146	Unusual Coordination Behavior of Cr ³⁺ in Microporous Aluminophosphates. <i>Journal of Physical Chemistry B</i> , 2006, 110, 716-722.	1.2	37
147	A Multispectroscopic Study of 3d Orbitals in Cobalt Carboxylates: The High Sensitivity of 2p3d Resonant X-ray Emission Spectroscopy to the Ligand Field. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1170-1174.	7.2	37
148	Atomic-Scale Investigation of the Structural and Electronic Properties of Cobalt-Iron Bimetallic Fischer-Tropsch Catalysts. <i>ACS Catalysis</i> , 2019, 9, 7998-8011.	5.5	37
149	From Ligand Fields to Molecular Orbitals: Probing the Local Valence Electronic Structure of Ni ²⁺ in Aqueous Solution with Resonant Inelastic X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16512-16521.	1.2	36
150	Shrinking the Synchrotron: Tabletop Extreme Ultraviolet Absorption of Transition-Metal Complexes. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3383-3387.	2.1	36
151	Site-selective XAFS: a new tool for catalysis research. <i>Topics in Catalysis</i> , 2000, 10, 179-186.	1.3	35
152	Chemical analysis of passivated and oxidized layers on FeCr and FeTi alloys by soft x-ray absorption spectroscopy. <i>Surface and Interface Analysis</i> , 1993, 20, 21-26.	0.8	34
153	Deactivation of Cu-Exchanged Automotive NH ₃ SCR Catalysts Elucidated with Nanoscale Resolution Using Scanning Transmission X-ray Microscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15610-15617.	7.2	34
154	Charge transfer multiplet calculations of the K beta X-ray emission spectra of divalent nickel compounds. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 6875-6884.	0.7	33
155	Dips and peaks in fluorescence yield X-ray absorption are due to state-dependent decay. <i>Nature Chemistry</i> , 2012, 4, 766-767.	6.6	33
156	3D Nanoscale Chemical Imaging of the Distribution of Aluminum Coordination Environments in Zeolites with Soft X-ray Microscopy. <i>ChemPhysChem</i> , 2013, 14, 496-499.	1.0	33
157	Prospects of high-resolution resonant X-ray inelastic scattering studies on solid materials, liquids and gases at diffraction-limited storage rings. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1065-1076.	1.0	33
158	Aluminum-Phosphate Binder Formation in Zeolites as Probed with X-ray Absorption Microscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 17774-17787.	6.6	33
159	Direct Observation of Cr ³⁺ 3d States in Ruby: Toward Experimental Mechanistic Evidence of Metal Chemistry. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4399-4413.	1.1	33
160	Unconventional Charge Density Wave Order in the Pnictide Superconductor $\text{Ba} \dots$		

#	ARTICLE	IF	CITATIONS
163	Resonant inelastic X-ray scattering (RIXS) spectroscopy at the Mn K absorption pre-edge—a direct probe of the 3d orbitals. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 2163-2167.	1.9	31
164	Charge order, enhanced orbital moment, and absence of magnetic frustration in layered multiferroic $\text{LuFe}_2\text{Mn}_2\text{O}_7$. <i>Physical Review B</i> , 2009, 80, .	1.1	31
165	Coulomb Correlations Intertwined with Spin and Orbital Excitations in LaCoO_3 . <i>Physical Review Letters</i> , 2017, 119, 196402.	2.9	31
166	Theoretical analysis of the magnetic circular dichroism in the $2p_3d$ and $2p_4d$ x-ray emission of Gd. <i>Physical Review B</i> , 1997, 56, 7285-7292.	1.1	30
167	<i>In situ</i> X-ray Absorption Near Edge Structure Spectroscopy of a Solid Catalyst using a Laboratory-Based Setup. <i>ChemCatChem</i> , 2019, 11, 1039-1044.	1.8	30
168	High Resolution K Capture X-ray Fluorescence Spectroscopy: A New Tool for Chemical Characterization. <i>Journal of the American Chemical Society</i> , 1999, 121, 4926-4927.	6.6	29
169	Ligand and metal X-ray absorption in transition metal complexes. <i>Inorganica Chimica Acta</i> , 2008, 361, 850-856.	1.2	29
170	Hard X-ray Photon-In Photon-Out Spectroscopy. <i>Synchrotron Radiation News</i> , 2009, 22, 12-16.	0.2	29
171	Three-Dimensional Structure and Defects in Colloidal Photonic Crystals Revealed by Tomographic Scanning Transmission X-ray Microscopy. <i>Langmuir</i> , 2012, 28, 3614-3620.	1.6	29
172	Energetic, spatial, and momentum character of the electronic structure at a buried interface: The two-dimensional electron gas between two metal oxides. <i>Physical Review B</i> , 2016, 93, .	1.1	29
173	L-edge x-ray absorption spectroscopy of <i>Pyrococcus furiosus</i> rubredoxin. <i>Journal of the American Chemical Society</i> , 1992, 114, 4426-4427.	6.6	28
174	Measurement of Magnetic Moment at the Atomic Scale in a High Temperature Molecular Based Magnet. <i>The Journal of Physical Chemistry</i> , 1996, 100, 4679-4684.	2.9	28
175	In situ X-ray Raman spectroscopy study of the hydrogen sorption properties of lithium borohydride nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22651-22658.	1.3	28
176	Redox Behavior of Solid Solutions in the $\text{SrFe}_{1-x}\text{Cu}_x\text{O}_{3-\delta}$ System for Application in Thermochemical Oxygen Storage and Air Separation. <i>Energy Technology</i> , 2019, 7, 131-139.	1.8	28
177	Redox behaviour of over-exchanged Fe/ZSM5 zeolites studied with in-situ soft X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4484-4491.	1.3	27
178	Controlled Assembly of a Heterogeneous Single-Site Ethylene Trimerization Catalyst as Probed by X-ray Absorption Spectroscopy. <i>Chemistry - A European Journal</i> , 2006, 12, 4756-4763.	1.7	27
179	First principles multiplet calculations of the calcium $L_{2,3}$ x-ray absorption spectra of CaO and CaF_2 . <i>Journal of Physics Condensed Matter</i> , 2011, 23, 145501.	0.7	27
180	In situ X-ray Raman spectroscopy of LiBH_4 . <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5581.	1.3	27

#	ARTICLE	IF	CITATIONS
199	Iron 1s X-ray photoemission of Fe ₂ O ₃ . Journal of Electron Spectroscopy and Related Phenomena, 2015, 203, 8-13.	0.8	22
200	1s3p Resonant Inelastic X-ray Scattering of Cobalt Oxides and Sulfides. Journal of Physical Chemistry C, 2016, 120, 24063-24069.	1.5	22
201	Charge-Transfer Analysis of 2p3d Resonant Inelastic X-ray Scattering of Cobalt Sulfide and Halides. Journal of Physical Chemistry C, 2017, 121, 24919-24928.	1.5	22
202	Insights into the Synthesis Mechanism of Ag ₂₉ Nanoclusters. Journal of Physical Chemistry C, 2018, 122, 28351-28361.	1.5	22
203	Scanning Transmission X-Ray Microscopy as a Novel Tool to Probe Colloidal and Photonic Crystals. Small, 2011, 7, 804-811.	5.2	21
204	Pd L3edge XANES investigation of the electronic and geometric structure of Pd/Ag@H membranes. Physical Chemistry Chemical Physics, 2004, 6, 3903-3906.	1.3	20
205	Functional Groups and Sulfur K-Edge XANES Spectra: Divalent Sulfur and Disulfides. Journal of Physical Chemistry A, 2010, 114, 9523-9528.	1.1	20
206	Styrene oligomerization as a molecular probe reaction for Brønsted acidity at the nanoscale. Physical Chemistry Chemical Physics, 2012, 14, 6967.	1.3	20
207	Investigating the interstellar dust through the Fe K-edge. Astronomy and Astrophysics, 2018, 609, A22.	2.1	20
208	Insight into the Nature of the ZnO Promoter during Methanol Synthesis. ACS Catalysis, 2022, 12, 6628-6639.	5.5	20
209	Composition tunable cobalt-nickel and cobalt-iron alloy nanoparticles below 10 Ånm synthesized using acetonated cobalt carbonyl. Journal of Nanoparticle Research, 2012, 14, 991.	0.8	19
210	Robust Ferromagnetism of Chromium Nanoparticles Formed in Superfluid Helium. Advanced Materials, 2017, 29, 1604277.	11.1	19
211	Reversal in the Lattice Contraction of Fe ₂ O ₃ Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 9292-9301.	1.5	19
212	The potential energy surface of triplet H ₃ : A representation in hyperspherical coordinates. Journal of Chemical Physics, 1989, 90, 2344-2356.	1.2	18
213	Controlling the Bonding of CO on Cobalt Clusters by Coadsorption of H ₂ . Angewandte Chemie - International Edition, 2007, 46, 5317-5320.	7.2	18
214	Resonant Inelastic X-ray Scattering of Molybdenum Oxides and Sulfides. Journal of Physical Chemistry C, 2015, 119, 2419-2426.	1.5	18
215	Multiscalar Investigation of FeVO ₄ Conversion Cathode for a Low Concentration Zn(CF ₃ SO ₃) ₂ Rechargeable Zn-Ion Aqueous Battery. Batteries and Supercaps, 2020, 3, 619-630.	2.4	18
216	Detection of Spontaneous FeOOH Formation at the Hematite/Ni(Fe)OOH Interface During Photoelectrochemical Water Splitting by Operando X-ray Absorption Spectroscopy. ACS Catalysis, 2021, 11, 12324-12335.	5.5	18

#	ARTICLE	IF	CITATIONS
217	Sum rule distortions in fluorescence-yield x-ray magnetic circular dichroism. Physical Review B, 2017, 96, .	1.1	16
218	Excitonic dispersion of the intermediate spin state in LaCoO_3 revealed by resonant inelastic x-ray scattering. Physical Review B, 2018, 98, .	1.1	16
219	Elucidating the K-edge X-ray Absorption Near-edge Structure of Cobalt Carbide. ChemCatChem, 2019, 11, 3042-3045.	1.8	16
220	Oxygen 1s-x-ray absorption of $\text{BaPb}_{1-x}\text{Bi}_x\text{O}_3$. Physical Review B, 1991, 44, 5280-5285.	1.1	15
221	Evolution of the spectral function in Mott-Hubbard systems across metal-insulator transitions. Physica B: Condensed Matter, 1993, 186-188, 981-985.	1.3	15
222	Comment on "Spin crossover in $(\text{Mg,Fe})\text{O}$: A Mössbauer effect study with an alternative interpretation of x-ray emission spectroscopy data". Physical Review B, 2007, 75, .	1.1	15
223	Final-State Projection Method in Charge-Transfer Multiplet Calculations: An Analysis of Ti L-Edge Absorption Spectra. Journal of Physical Chemistry B, 2015, 119, 13852-13858.	1.2	15
224	Magnetic states at the surface of MnO_3 thin films doped with Ti, Zn, or Sn. Physical Review B, 2017, 96, .	1.1	15
225	Cobalt-to-vanadium charge transfer in polyoxometalate water oxidation catalysts revealed by 2p3d resonant inelastic X-ray scattering. Physical Chemistry Chemical Physics, 2018, 20, 4554-4562.	1.3	15
226	Direct and real-time observation of hole transport dynamics in anatase TiO_2 using X-ray free-electron laser. Nature Communications, 2022, 13, 2531.	5.8	15
227	L2,3x-ray absorption spectroscopy and multiplet calculations for KMnF_3 and K_2NaMF_6 ($M=\text{Ni,Cu}$). Physical Review B, 2001, 63, .	1.1	14
228	XAS spectra of $\text{Ce}_2[\text{MnN}_3]$ at the Ce-M4,5, Ce-L3, Mn-L2,3 and N-K thresholds. Journal of Alloys and Compounds, 2002, 346, 129-133.	2.8	14
229	The distribution of the doped holes in $\text{La}_{2-x}\text{Sr}_x\text{Cu}_1-y\text{Ru}_y\text{O}_{4-\delta}$. Chemical Physics, 2002, 282, 451-463.	0.9	14
230	1s2p Resonant Inelastic X-ray Scattering Magnetic Circular Dichroism as a probe for the local and non-local orbitals in CrO_2 . Journal of Electron Spectroscopy and Related Phenomena, 2018, 222, 74-87.	0.8	14
231	Interstellar dust along the line of sight of GX 3+1. Astronomy and Astrophysics, 2019, 630, A143.	2.1	14
232	Doping dependence of the electronic structure of $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$ studied by x-ray-absorption spectroscopy. Physical Review B, 1999, 59, 15100-15106.	1.1	13
233	Spin-Orbit Mediated Interference in the Radiative and Nonradiative Channels of the La $d_{3/2}$ Core Resonances. Physical Review Letters, 2009, 103, 137401.	2.9	13
234	$K\beta$ Detected High-Resolution XANES of FeII and FeIII Models of the 2-His-1-Carboxylate Motif: Analysis of the Carboxylate Binding Mode. European Journal of Inorganic Chemistry, 2012, 2012, 1589-1597.	1.0	13

#	ARTICLE	IF	CITATIONS
235	In-Situ 2p3d Resonant Inelastic X-ray Scattering Tracking Cobalt Nanoparticle Reduction. Journal of Physical Chemistry C, 2017, 121, 17450-17456.	1.5	13
236	Chemical study of passivating chromium oxide films by soft X-ray absorption spectroscopy. Analyst, The, 1994, 119, 609.	1.7	12
237	Distortions of X-ray absorption spectra measured with fluorescence yield. Physica B: Condensed Matter, 1995, 208-209, 84-86.	1.3	12
238	Influence of hybridization in the Magnetic Circular X-ray Dichroism at the Ce-M4,5 absorption edges of Ce-Fe systems. Journal of Electron Spectroscopy and Related Phenomena, 1996, 78, 221-224.	0.8	12
239	Study of magnetism using circularly polarized soft X-rays. Journal of Electron Spectroscopy and Related Phenomena, 1998, 92, 11-18.	0.8	12
240	Monitoring the Location, Amount, and Nature of Carbonaceous Deposits on Aged Zeolite Ferrierite Crystals by Using STEM-EELS. Chemistry - A European Journal, 2003, 9, 3106-3111.	1.7	12
241	Protonation of the oxygen axial ligand in galactose oxidase model compounds as seen with high resolution X-ray emission experiments and FEFF simulations. Physical Chemistry Chemical Physics, 2011, 13, 5600.	1.3	12
242	Thermally Activated Processes at the Co/ZnO Interface Elucidated Using High Energy X-rays. Journal of Physical Chemistry C, 2011, 115, 7411-7418.	1.5	12
243	Graphene Nanoreactors: Photoreduction of Prussian Blue in Aqueous Solution. Journal of Physical Chemistry C, 2017, 121, 22225-22233.	1.5	12
244	Magnetic Contrast at Spin-Flip Excitations: An Advanced X-Ray Spectroscopy Tool to Study Magnetic-Ordering. ACS Applied Materials & Interfaces, 2019, 11, 36213-36220.	4.0	12
245	Resonant photoelectron spectroscopy on CoO. Journal of Physics Condensed Matter, 1997, 9, 9863-9871.	0.7	11
246	Collected works of Theo Thole: the spectroscopy papers. Journal of Electron Spectroscopy and Related Phenomena, 1997, 86, 25-40.	0.8	11
247	Core and Valence Structures in $K\ell^2$ X-ray Emission Spectra of Chromium Materials. Journal of Physical Chemistry C, 2014, 118, 22202-22210.	1.5	11
248	Distorted Tetrahedral Co^{II} in $K_{2.5}H_{12}CoW_{12}O_{40}$ Probed by 2p3d Resonant Inelastic X-ray Scattering. Inorganic Chemistry, 2016, 55, 10152-10160.	1.9	11
249	Facile Two-Step Synthesis of Delafossite $CuFeO_2$ Photocathodes by Ultrasonic Spray Pyrolysis and Hybrid Microwave Annealing. ChemPhotoChem, 2019, 3, 1238-1245.	1.5	11
250	Valence measurement of Mn oxides using Mn $K\ell^2$ emission spectroscopy. Journal of Physics and Chemistry of Solids, 2000, 61, 457-460.	1.9	10
251	Multiple excitations in the K fluorescence emission of Mn, Fe and Ni compounds. AIP Conference Proceedings, 2003, , .	0.3	10
252	The role of Mn in the electronic structure of $Ba_3Ti_2MnO_9$. Journal of Solid State Chemistry, 2005, 178, 3426-3430.	1.4	10

#	ARTICLE	IF	CITATIONS
253	AWARD PAPER: XANES spectra of transition metal compounds. Journal of Physics: Conference Series, 2009, 190, 012004.	0.3	10
254	<i>Quanty4RIXS</i>: a program for crystal field multiplet calculations of RIXS and RIXSâ€™MCD spectra using<i>Quanty</i>. Journal of Synchrotron Radiation, 2018, 25, 899-905.	1.0	10
255	Low-energy orbital excitations in strained LaCoO3 films. Physical Review B, 2019, 100, .	1.1	10
256	Noncollinear Ordering of the Orbital Magnetic Moments in Magnetite. Physical Review Letters, 2019, 123, 207201.	2.9	10
257	Many-Body Physics of Single and Double Spin-Flip Excitations in NiO. Physical Review Letters, 2020, 124, 067202.	2.9	10
258	Spectroscopic characterization of electronic structures of ultra-thin single crystal La0.7Sr0.3MnO3. Scientific Reports, 2021, 11, 5250.	1.6	10
259	RESONANT PHOTOEMISSION OF N2O ON Ir(110). Surface Review and Letters, 2004, 11, 385-389.	0.5	9
260	<i>Ab-initio</i>Cl calculations for 3<i>d</i>transition metal<i>L</i>_{2,3}X-ray absorption spectra of TiCl₄and VOCl₃. Journal of Physics: Conference Series, 2009, 190, 012005.	0.3	9
261	Exchange coupling in the correlated electronic states of amorphous GdFe films. Physical Review B, 2013, 88, .	1.1	9
262	High Energy Resolution Fluorescence Detection X-Ray Absorption Spectroscopy: Detection of Adsorption Sites in Supported Metal Catalysts. AIP Conference Proceedings, 2007, , .	0.3	8
263	On the local structure of Ti during in situ desorption of Ti(OBu)4 and TiCl3 doped NaAlH4. Journal of Alloys and Compounds, 2007, 446-447, 232-236.	2.8	8
264	Angular dependence of resonant inelastic x-ray scattering: a spherical tensor expansion. Open Physics, 2014, 12, .	0.8	8
265	Unraveling the Redox Behavior of a CoMoS Hydrodesulfurization Catalyst: A Scanning Transmission X-ray Microscopy Study in the Tender X-ray Range. Journal of Physical Chemistry C, 2015, 119, 2530-2536.	1.5	8
266	Local vs Nonlocal States in FeTiO₃ Probed with 1s2pRIXS: Implications for Photochemistry. Inorganic Chemistry, 2017, 56, 10882-10892.	1.9	8
267	1<i>s</i>2<i>p</i> resonant inelastic X-ray scattering combined dipole and quadrupole analysis method. Journal of Synchrotron Radiation, 2017, 24, 296-301.	1.0	8
268	Electronic structure of Pr₂MnNiO₆from x-ray photoemission, absorption and density functional theory. Journal of Physics Condensed Matter, 2018, 30, 435603.	0.7	8
269	Unveiling interactions of non-metallic inclusions within advanced ultra-high-strength steel: A spectro-microscopic determination and first-principles elucidation. Scripta Materialia, 2021, 197, 113791.	2.6	8
270	Hidden states and new peaks in resonant X-ray emission and resonant photoemission. Journal of Electron Spectroscopy and Related Phenomena, 1998, 92, 207-211.	0.8	7

#	ARTICLE	IF	CITATIONS
271	Following the reduction under H ₂ of supported cobalt catalysts through the absorption edges. Journal of Synchrotron Radiation, 1999, 6, 430-432.	1.0	7
272	A Study of Transition Metal K Absorption PreEdges by Resonant Inelastic X-Ray Scattering RIXS. Physica Scripta, 2005, , 1032.	1.2	7
273	Phase Transitions at the Mn/ZnO (0001...) Interface Probed by High Energy X-ray Spectroscopies. Journal of Physical Chemistry C, 2012, 116, 665-670.	1.5	7
274	The x-ray magnetic circular dichroism spin sum rule for 3d systems: Mn ³⁺ ions in colossal magnetoresistance manganites. Journal of Physics Condensed Matter, 2012, 24, 435602.	0.7	7
275	Origin of Low Energy d-d Excitations Observed on Wet Chemically Prepared Cobalt Bearing Nanoparticles by 2p _{3/2} Resonant X-ray Emission Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 14398-14407.	1.5	7
276	Transition-Metal Nanoparticle Oxidation in a Chemically Nonhomogeneous Environment Revealed by 2p _{3/2} Resonant X-ray Emission. Journal of Physical Chemistry Letters, 2013, 4, 1161-1166.	2.1	7
277	Temperature-Dependent 1s _{2p} Resonant Inelastic X-ray Scattering of CoO. Journal of Physical Chemistry C, 2013, 117, 2976-2981.	1.5	7
278	High-resolution nonresonant x-ray Raman scattering study on rare earth phosphate nanoparticles. New Journal of Physics, 2015, 17, 043041.	1.2	7
279	Soft x-ray absorption spectroscopy study of the electronic structures of the MnFe Prussian blue analogs $Tj ET$ xmlns:mml="http://www.w3.org/1998/Math/MathML" <mml:mrow> <mml:mrow> <mml:mo> (</mml:mo> <mml:msub> <mml:mi> Tj ET</mml:mi>		

#	ARTICLE	IF	CITATIONS
289	X-ray magnetic circular dichroism spectra and distortions at Fe ²⁺ L _{2,3} edges. Journal of Electron Spectroscopy and Related Phenomena, 1996, 78, 337-340.	0.8	5
290	In-situ Scanning Transmission X-ray Microscopy of catalytic materials under reaction conditions. Journal of Physics: Conference Series, 2009, 190, 012161.	0.3	5
291	Comment on "State-Dependent Electron Delocalization Dynamics at the Solute-Solvent Interface: Soft-X-ray Absorption Spectroscopy and Ab Initio Calculations". Physical Review Letters, 2014, 112, 129302.	2.9	5
292	Measurement of f orbital hybridization in rare earths through electric dipole-octupole interference in x-ray absorption spectroscopy. Physical Review Materials, 2019, 3, .	0.9	5
293	Saturation and self-absorption effects in the angle-dependent 2p _{3d} resonant inelastic X-ray scattering spectra of Co ₃₊ . Journal of Synchrotron Radiation, 2020, 27, 979-987.	1.0	5
294	Hole Dynamics in Photoexcited Hematite Studied with Femtosecond Oxygen K-edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 4207-4214.	2.1	5
295	Analyzing the Local Electronic Structure of Co ₃ O ₄ Using 2p _{3d} Resonant Inelastic X-ray Scattering. Journal of Physical Chemistry C, 2022, 126, 8752-8759.	1.5	5
296	Realizing Low-Temperature Charge-Transfer-Type Insulating Ground State in Strained V ₂ O ₃ Thin Film. ACS Applied Electronic Materials, 2022, 4, 3036-3048.	2.0	5
297	Electronic structure and metal-insulator transitions in Ti and V oxides. Physica B: Condensed Matter, 1993, 186-188, 1074-1076.	1.3	4
298	Tjeng et al. Reply:. Physical Review Letters, 1998, 81, 734-734.	2.9	4
299	Magnetic circular dichroism in the 2p _{4d} x-ray emission of EuO. Physical Review B, 2000, 61, 7176-7179.	1.1	4
300	Unraveling the Structure of Mn-Promoted Co/TiO ₂ Fischer-Tropsch Catalysts by In Situ X-Ray Absorption Spectroscopy. AIP Conference Proceedings, 2007, , .	0.3	4
301	Observing the Influence of X-Rays on Aqueous Copper Solutions by In Situ Combined Video/XAFS/UV-Vis Spectroscopy. AIP Conference Proceedings, 2007, , .	0.3	4
302	Quantifying covalent interactions with resonant inelastic soft X-ray scattering: Case study of Ni ²⁺ aqua complex. Chemical Physics Letters, 2017, 669, 196-201.	1.2	4
303	Probing the local distortion of Fe sites in Fe ₃ O ₄ thin films using enhanced symmetry selection in XMLD. Physical Review Materials, 2020, 4, .	0.9	4
304	Nature of cobalt species during the in situ sulfurization of Co(Ni)Mo/Al ₂ O ₃ hydrodesulfurization catalysts. Journal of Synchrotron Radiation, 2019, 26, 811-818.	1.0	4
305	Unveiling nano-scaled chemical inhomogeneity impacts on corrosion of Ce-modified 2507 super-duplex stainless steels. Npj Materials Degradation, 2022, 6, .	2.6	4
306	Soft X-ray magnetic circular dichroism in molecular based magnet. Physica B: Condensed Matter, 1995, 208-209, 775-776.	1.3	3

#	ARTICLE	IF	CITATIONS
307	Charge-transfer multiplet analysis of the resonant 2p3p3p Auger spectra of CaF ₂ . Physical Review B, 1995, 51, 14062-14068.	1.1	3
308	XMCD measurements in a high TC molecular based magnet. Journal of Electron Spectroscopy and Related Phenomena, 1996, 78, 203-208.	0.8	3
309	Magnetic linear dichroism in x-ray emission spectroscopy: Yb in Yb ₃ Fe ₅ O ₁₂ . Physical Review B, 2000, 62, 379-384.	1.1	3
310	The accuracy of the spin sum rule in XMCD. Journal of Physics: Conference Series, 2009, 190, 012015.	0.3	3
311	Electronic structure investigation of a charge density wave coupled to a metal-to-metal transition in CeMn_3O_7 . Physical Review B, 2018, 98, .	1.1	3
312	Hard x-ray photoemission spectroscopy of GdNi and HoNi. Physical Review B, 2020, 102, .	1.1	3
313	Tensor description of X-ray magnetic dichroism at the Fe $L_{2,3}$ -edges of Fe ₃ O ₄ . Journal of Synchrotron Radiation, 2021, 28, 247-258.	1.0	3
314	Mapping chemical bonding of reaction intermediates with femtosecond X-ray laser spectroscopy. EPJ Web of Conferences, 2013, 41, 05025.	0.1	3
315	Local-spin-selective X-ray absorption: a new technique to study correlated materials. Physica B: Condensed Matter, 1995, 206-207, 89-91.	1.3	2
316	Local-spin-selective X-ray absorption and X-ray magnetic circular dichroism of MnP. Physica B: Condensed Matter, 1995, 208-209, 763-764.	1.3	2
317	Resonant 3s photoemission and resonant 2p3p3p auger of CaF ₂ . Solid State Communications, 1995, 96, 881-885.	0.9	2
318	Soft X-ray magnetic circular dichroism in molecular based magnets. Nuclear Instruments & Methods in Physics Research B, 1995, 97, 453-456.	0.6	2
319	In situ X-Ray Absorption of Co/Mn/TiO ₂ Catalysts for Fischer-Tropsch Synthesis.. ChemInform, 2004, 35, no.	0.1	2
320	XRay Studies of PdAg Membranes for Hydrogen Separation. Physica Scripta, 2005, , 278.	1.2	2
321	Electronic excitations of Fe_2O_3 heteroepitaxial films measured by resonant inelastic x-ray scattering at the Fe L edge. Physical Review B, 2022, 105, .	1.1	2
322	X-ray absorption and dichroism of transition metal compounds. , 1997, , .		1
323	X-ray Absorption Near-edge and Pre-edge Structure: The Contributions of ab initio Plane-wave Pseudopotential Calculations and of Multiplet Theory. Microscopy and Microanalysis, 2004, 10, 90-91.	0.2	1
324	Intramolecular crossover from unconventional diamagnetism to paramagnetism of palladium ions probed by soft X-ray magnetic circular dichroism. Communications Chemistry, 2020, 3, .	2.0	1

