Alexander Moewes

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6806390/publications.pdf

Version: 2024-02-01

230	4,361	109321	182427
papers	citations	35 h-index	51 g-index

231	231	231	6485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxygen x-ray emission and absorption spectra as a probe of the electronic structure of strongly correlated oxides. Physical Review B, 2008, 77, .	3.2	139
2	Oxygen-vacancy-induced ferromagnetism in undoped 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>thin films. Physical Review B, 2012, 85, .	3.2	124
3	Band Gap Tuning in ZnO Through Ni Doping via Spray Pyrolysis. Journal of Physical Chemistry C, 2013, 117, 12745-12753.	3.1	104
4	Effect of Co and O defects on the magnetism in Co-doped ZnO: Experiment and theory. Physical Review B, 2007, 75, .	3.2	99
5	Material Properties and Structural Characterization of M₃Si₆O₁₂N₂:Eu²⁺ (M=Ba, Sr)â€”A Comprehensive Study on a Promising Green Phosphor for pcâ€LEDs. Chemistry - A European Journal, 2010, 16, 9646-9657.	3.3	99
6	Band gaps and electronic structure of alkaline-earth and post-transition-metal oxides. Physical Review B, 2010, 81, .	3.2	78
7	Luminescence of an Oxonitridoberyllate: A Study of Narrow-Band Cyan-Emitting Sr[Be₆ON₄]:Eu²⁺. Chemistry of Materials, 2018, 30, 3122-3130.	6.7	77
8	Epoxide Speciation and Functional Group Distribution in Graphene Oxide Paperâ€Like Materials. Advanced Functional Materials, 2012, 22, 3950-3957.	14.9	73
9	The Metallic Nature of Epitaxial Silicene Monolayers on Ag(111). Advanced Functional Materials, 2014, 24, 5253-5259.	14.9	69
10	Investigations of the Electronic Structure and Bandgap of the Nextâ€Generation LEDâ€Phosphor Sr[LiAl₃N₄]:Eu²⁺â€”Experiment and Calculations. Advanced Optical Materials, 2015, 3, 546-550.	7.3	67
11	Electronic structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Bi</mml:mtext><mml:mi>M</mml:mi><mml:msub><mml:mtext>O</mml:mtext><mml:m and related oxides. Physical Review B, 2010, 81, .	3.2	64
12	Valence Band Structure and X-ray Spectra of Oxygen-Deficient Ferrites SrFeO_x. Journal of Physical Chemistry C, 2010, 114, 5154-5159.	3.1	59
13	Electronic Structure of Spinel-Type Nitride Compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Si</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">N</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ge</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi	7.8	59
14	Ultrasmall Au nanocatalysts supported on nitrided carbon for electrocatalytic CO₂ reduction: the role of the carbon support in high selectivity. Nanoscale, 2018, 10, 14678-14686.	5.6	57
15	Band gap engineering of graphene oxide by chemical modification. Carbon, 2014, 75, 366-371.	10.3	56
16	Electronic Structure of the Nucleobases. Journal of Physical Chemistry B, 2005, 109, 7749-7757.	2.6	55
17	Appearance of Ferromagnetism in Co-Doped CeO₂ Diluted Magnetic Semiconductors Prepared by Solid-State Reaction. Journal of Physical Chemistry C, 2011, 115, 1556-1560.	3.1	55
18	Band gap and electronic structure of cubic, rhombohedral, and orthorhombic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>In</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>polymorphs: Experiment and theory. Physical Review B, 2016, 93, .	3.2	52

#	Article	IF	Citations
19	The L2:L3 intensity ratio in soft X-ray emission spectra of 3d-metals. Journal of Electron Spectroscopy and Related Phenomena, 2005, 148, 1-4.	1.7	51
20	Asymmetric pathways in the electrochemical conversion reaction of NiO as battery electrode with high storage capacity. Scientific Reports, 2014, 4, 7133.	3.3	51
21	Structural and Band Gap Investigation of GaN:ZnO Heterojunction Solid Solution Photocatalyst Probed by Soft X-ray Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 7694-7700.	3.1	50
22	Band Gap Tuning in Poly(triazine imide), a Nonmetallic Photocatalyst. Journal of Physical Chemistry C, 2013, 117, 8806-8812.	3.1	47
23	The characterization of Co-nanoparticles supported on graphene. RSC Advances, 2015, 5, 75600-75606.	3.6	46
24	Grazing incidence optics for soft xâ€ray microscopy. Review of Scientific Instruments, 1992, 63, 569-573.	1.3	45
25	How functional groups change the electronic structure of graphdiyne: Theory and experiment. Carbon, 2017, 123, 1-6.	10.3	45
26	Interlayer conduction band states in graphite-sulfur composites. Physical Review B, 2002, 66, .	3.2	43
27	Buffer layer effect on the structural and electrical properties of rubrene-based organic thin-film transistors. Applied Physics Letters, 2006, 89, 163505.	3.3	43
28	Finite temperature effects on the X-ray absorption spectra of lithium compounds: First-principles interpretation of X-ray Raman measurements. Journal of Chemical Physics, 2014, 140, 034107.	3.0	43
29	Band approach to the excitation-energy dependence of x-ray fluorescence ofTiO2. Physical Review B, 1999, 60, 2212-2217.	3.2	42
30	Electronic structure and bonding in vitamin B12, cyanocobalamin. Computational and Theoretical Chemistry, 2003, 622, 221-227.	1.5	42
31	Electronic structure of aMn12molecular magnet: Theory and experiment. Physical Review B, 2007, 75, .	3.2	41
32	X-ray spectra and electronic structures of the iron arsenide superconductors<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mrow><mml:mtext>FeAsO</mml:mtext></mml:mrow><mml:mr xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
37	Electronic structure of niobium oxides. Journal of Alloys and Compounds, 2002, 347, 213-218.	5.5	35
38	Effect of 3d doping on the electronic structure of BaFe₂As₂. Journal of Physics Condensed Matter, 2012, 24, 215501.	1.8	35
39	Half-metallic electronic structure ofCrO2in resonant scattering. Physical Review B, 2003, 67, .	3.2	34
40	Substituent Effects in the Iron 2p and Carbon 1s Edge Near-Edge X-ray Absorption Fine Structure (NEXAFS) Spectroscopy of Ferrocene Compounds. Journal of Physical Chemistry A, 2008, 112, 624-634.	2.5	33
41	Room-temperature ferromagnetism via unpaired dopant electrons and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mo>â^'</mml:mo><mml:mi>p</mml:mi></mml:mrow></mml:math>coupling in carbon-doped In<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>O<mml:math xmlns:mml="http://www.w3.org/1998/Ma	3.2	33
42	Soft X-ray emission spectroscopy of early transition metal compounds. Journal of Electron Spectroscopy and Related Phenomena, 1998, 92, 197-205.	1.7	32
43	Effect of Co doping on the electronic structure ofMgCNi3. Physical Review B, 2002, 66, .	3.2	32
44	Class of tunable wide band gap semiconductors<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo> Physical Review B, 2010, 81, .	3.2	32
45	Adjacent Fe-Vacancy Interactions as the Origin of Room Temperature Ferromagnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo		

#	Article	IF	Citations
55	Electronic structure of alkali-metal-dopedM8Si46(M=Na,K)clathrates. Physical Review B, 2002, 65, .	3.2	26
56	The electronic structure and chemical bonding of vitamin B 12. Europhysics Letters, 2003, 62, 582-587.	2.0	26
57	Electronic structure and thermoelectric properties of skutterudite compounds. Journal of Physics Condensed Matter, 2004, 16, 979-987.	1.8	26
58	Ca₃N₂ and Mg₃N₂: Unpredicted High-Pressure Behavior of Binary Nitrides. Journal of the American Chemical Society, 2011, 133, 4307-4315.	13.7	26
59	Study of the Structural Characteristics of 3d Metals Cr, Mn, Fe, Co, Ni, and Cu Implanted in ZnO and TiO₂â€”Experiment and Theory. Journal of Physical Chemistry C, 2014, 118, 28143-28151.	3.1	26
60	Combined X-ray Absorption Spectroscopy and Density Functional Theory Examination of Ferrocene-Labeled Peptides. Journal of Physical Chemistry B, 2006, 110, 5955-5965.	2.6	25
61	Magnesium Double Nitride Mg₃GaN₃ as New Host Lattice for Eu²⁺ Doping: Synthesis, Structural Studies, Luminescence, and Band-Gap Determination. Chemistry of Materials, 2013, 25, 4044-4052.	6.7	25
62	X-ray emission and photoelectron spectra ofPr0.5Sr0.5MnO3. Physical Review B, 1999, 59, 12799-12806.	3.2	24
63	Comparative Theoretical and Experimental Study of the Radiation-Induced Decomposition of Glycine. Journal of Physical Chemistry A, 2009, 113, 5360-5366.	2.5	24
64	Properties of non-equivalent sites and bandgap of spinel-phase silicon nitride. Journal of Physics Condensed Matter, 2004, 16, 6469-6476.	1.8	23
65	Analysis of octadecyltrichlorosilane treatment of organic thin-film transistors using soft x-ray fluorescence spectroscopy. Applied Physics Letters, 2005, 86, 232103.	3.3	23
66	Electronic structures ofLiFePO4andFePO4studied using resonant inelastic x-ray scattering. Physical Review B, 2006, 73, .	3.2	23
67	Elastic and inelastic scattering of4dinner-shell electrons in(Y,Gd)2O3studied by synchrotron-radiation excitation. Physical Review B, 1998, 57, R8059-R8062.	3.2	22
68	Mechanism for interfacial adhesion strength of an ion beam mixed Cu/polyimide with a thin buffer layer. Applied Physics Letters, 1999, 74, 522-524.	3.3	22
69	Probing Interfacial Characteristics of Rubrene/Pentacene and Pentacene/Rubrene Bilayers with Soft X-Ray Spectroscopy. Journal of Physical Chemistry B, 2007, 111, 9513-9518.	2.6	22
70	The electronic structure of lithium metagallate. Journal of Physics Condensed Matter, 2011, 23, 445501.	1.8	22
71	Chemical Bonding and Hybridization in 5p Binary Oxide. Journal of Physical Chemistry C, 2012, 116, 24248-24254.	3.1	22
72	Optimizing and characterizing grating efficiency for a soft X-ray emission spectrometer. Journal of Synchrotron Radiation, 2013, 20, 272-285.	2.4	22

#	Article	IF	Citations
73	Optical luminescence spectroscopy with the scanning soft xâ€ray microscope at HASYLAB/DESY. Review of Scientific Instruments, 1995, 66, 3513-3519.	1.3	21
74	Dependence of DNA Electronic Structure on Environmental and Structural Variations. Journal of Physical Chemistry B, 2006, 110, 15742-15748.	2.6	21
75	Electronic structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Li</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">RuO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math>studied by LDA and LDA+DMFT calculations and soft x-ray spectroscopy. Physical Review B, 2015, 91, .	3.2	21
76	Tuning the electronic structure of graphene through nitrogen doping: experiment and theory. RSC Advances, 2016, 6, 56721-56727.	3.6	21
77	Band gap and electronic structure of MgSiN₂ determined using soft Xâ€ray spectroscopy and density functional theory. Physica Status Solidi - Rapid Research Letters, 2015, 9, 250-254.	2.4	20
78	Probing electron correlation, charge transfer, and Coster-Kronig transitions at the3dand4dthresholds of Nd by resonant inelastic scattering. Physical Review B, 1999, 59, 5452-5456.	3.2	19
79	Clustering of impurity atoms in Co-doped anatase TiO2thin films probed with soft x-ray fluorescence. Journal of Physics Condensed Matter, 2006, 18, 4243-4251.	1.8	19
80	Modulation of the band gap of graphene oxide: The role of AA-stacking. Carbon, 2014, 66, 539-546.	10.3	19
81	Intercalation-Induced Exfoliation and Thickness-Modulated Electronic Structure of a Layered Ternary Vanadium Oxide. Chemistry of Materials, 2017, 29, 3285-3294.	6.7	19
82	Analysis of Electron Spectra of Carbon Allotropes (Diamond, Graphite, Fullerene) by Density Functional Theory Calculations Using the Model Molecules. Journal of Physical Chemistry A, 2003, 107, 9403-9408.	2.5	18
83	X-ray emission spectra and electronic structure of CuIr2S4 and CuIr2Se4. Solid State Communications, 1998, 108, 235-239.	1.9	17
84	â€‡Solid versus solution: Examining the electronic structure of metallic DNA with soft x-ray spectroscopy. Physical Review B, 2006, 74, .	3.2	17
85	Linking the HOMO-LUMO gap to torsional disorder in P3HT/PCBM blends. Journal of Chemical Physics, 2015, 143, 224704.	3.0	17
86	X-ray spectroscopic study of amorphous and polycrystalline PbO films, Î±-PbO, and Î²-PbO for direct conversion imaging. Scientific Reports, 2017, 7, 13159.	3.3	17
87	Understanding of Luminescence Properties Using Direct Measurements on Eu ²⁺ â€Doped Wide Bandgap Phosphors. Advanced Optical Materials, 2020, 8, 2000504.	7.3	17
88	Electronic structure ofCu1â^'xNixRh2S4andCuRh2Se4: Band-structure calculations, x-ray photoemission, and fluorescence measurements. Physical Review B, 2000, 61, 4230-4237.	3.2	16
89	Electronic structure of graphite fluorides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 288, 340-344.	2.1	16
90	Identifying valence structure in LiFeAs and NaFeAs with core-level spectroscopy. Journal of Physics Condensed Matter, 2009, 21, 345701.	1.8	16

#	Article	IF	Citations
91	Band-gap engineering in 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>-based ternary oxides. Physical Review B, 2012, 85, .	3.2	16
92	Electronic band gap reduction and intense luminescence in Co and Mn ion-implanted SiO2. Journal of Applied Physics, 2014, 115, .	2.5	16
93	No multiatom resonances observed in x-ray fluorescence. Physical Review B, 2000, 62, 15427-15430.	3.2	15
94	Interaction of Cu3dand O2pstates inMg1â^'xCuxOsolid solutions with NaCl structure:â€ƒX-ray photoelectron and x-ray emission study. Physical Review B, 2000, 62, 4922-4926.	3.2	15
95	Band dispersion of MgB2, graphite and diamond from resonant inelastic scattering. Journal of Physics Condensed Matter, 2003, 15, 2081-2089.	1.8	15
96	Resonant inelastic soft x-ray scattering and electronic structure of LiBC. Journal of Physics Condensed Matter, 2004, 16, 5137-5142.	1.8	15
97	Local Structure of Fe Impurity Atoms in ZnO: Bulk versus Surface. Journal of Physical Chemistry C, 2014, 118, 5336-5345.	3.1	15
98	Designing Luminescent Materials and Band Gaps: A Soft X-ray Spectroscopy and Density Functional Theory Study of Li₂Ca₂[Mg₂Si₂N₆]:Eu²⁺ and Ba[Li₂(Al₂Si₂)N₆]:Eu²⁺. Journal of Physical Chemistry C, 2017, 121, 14296-14301.	3.1	15
99	Influence of Graphite Addition on the Reactivity of Ti Powder with H2under Ball Milling. Journal of Physical Chemistry B, 2006, 110, 196-204.	2.6	14
100	Soft X-ray absorption and emission characterization of nanodiamond prepared by explosive detonation. Diamond and Related Materials, 2007, 16, 350-352.	3.9	14
101	Charge transfer and band gap of ferrocene intercalated into TiSe2. Chemical Physics Letters, 2010, 497, 187-190.	2.6	14
102	Identifying local dopant structures and their impact on the magnetic properties of spintronic materials. Physical Review B, 2011, 83, .	3.2	14
103	Anion ordering in spinel-type gallium oxonitride. Physical Review B, 2011, 84, .	3.2	13
104	Stability and Electronic Characteristics of Epitaxial Silicene Multilayers on Ag(111). Advanced Functional Materials, 2015, 25, 4083-4090.	14.9	13
105	Bandgap and Electronic Structure Determination of Oxygen-Containing Ammonothermal InN: Experiment and Theory. Journal of Physical Chemistry C, 2019, 123, 8943-8950.	3.1	13
106	Energy levels of Eu²⁺ states in the next-generation LED-phosphor SrLi₂Al₂O₂N₂:Eu²⁺. Journal of Materials Chemistry C, 2022, 10, 9740-9747.	5.5	13
107	The formation of Tiâ€“O tetrahedra and band gap reduction in SiO2 via pulsed ion implantation. Journal of Applied Physics, 2013, 113, 103704.	2.5	12
108	Electronic structure of superconducting inorganic polymer (SN)x. Physica C: Superconductivity and Its Applications, 1999, 321, 191-198.	1.2	11

#	Article	IF	Citations
109	X-ray transitions for studying the electronic structure of5dmetals. Physical Review B, 2001, 64, .	3.2	11
110	Angular rotation of magnetic hysteresis of ion-irradiated ferromagnetic thin films. Applied Physics Letters, 2002, 81, 3016-3018.	3.3	11
111	Probing oxygen and nitrogen bonding sites in chitosan by X-ray emission. Journal of Electron Spectroscopy and Related Phenomena, 2002, 125, 133-138.	1.7	11
112	X-ray2pphotoelectron andLÎ±resonant x-ray emission spectra of the3dmetals inNi2MnZ(Z=In,Sn,Sb)Heusler alloys. Physical Review B, 2006, 74, .	3.2	11
113	Electronic properties of pyroxenes<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NaCrSi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NaFeSi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2010, 81, .	3.2	11
114	Electronic structure of titanium monoxide with randomly distributed vacancies. JETP Letters, 2012, 95, 641-646.	1.4	11
115	Comment on â€œState-Dependent Electron Delocalization Dynamics at the Solute-Solvent Interface: Soft-X-Ray Absorption Spectroscopy and AbÂinitio Calculationsâ€. Physical Review Letters, 2014, 112, 129301.	7.8	11
116	The local crystal structure and electronic band gap of Î²-sialons. Journal of Materials Science, 2014, 49, 3242-3252.	3.7	11
117	The electronic structure of zirconium in hydrided and oxidized states. Journal of Alloys and Compounds, 2015, 622, 463-470.	5.5	11
118	Soft X-ray fluorescence measurements of polyimide films. Thin Solid Films, 1999, 357, 91-97.	1.8	10
119	Resonant mixing of widely separated intermediate states and charge transfer at the 4d-4fresonance of La compounds. Europhysics Letters, 2000, 49, 665-671.	2.0	10
120	Theoretical X-ray photoelectron and emission spectra of Si- and S-containing polymers by density-functional theory calculations using model molecules. Journal of Molecular Structure, 2001, 561, 17-28.	3.6	10
121	Experimental and Theoretical Investigation of the Electronic Structure of 5-Fluorouracil Compounds. Journal of Physical Chemistry B, 2006, 110, 18180-18190.	2.6	10
122	Electronic structure and charge carriers in metallic DNA investigated by soft x-ray spectroscopy. Physical Review B, 2006, 73, .	3.2	10
123	X-ray photoelectron and carbon KÎ± emission measurements and calculations of O-, CO-, N-, and S-containing substances. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 162-172.	2.1	10
124	Effect of h-BN Additive on Hydrogen Sorption by Ti under Mechanical Treatment in H₂/He Flow. Journal of Physical Chemistry C, 2008, 112, 5869-5879.	3.1	10
125	The electronic structure of Îµâ€²-V2O5: an expanded band gap in a double-layered polymorph with increased interlayer separation. Journal of Materials Chemistry A, 2017, 5, 23694-23703.	10.3	10
126	Bulk vs. Surface Structure of 3d Metal Impurities in Topological Insulator Bi2Te3. Scientific Reports, 2017, 7, 5758.	3.3	10

#	Article	IF	Citations
127	Soft X-ray spectromicroscopy. Journal of Electron Spectroscopy and Related Phenomena, 1996, 80, 329-335.	1.7	9
128	Chemical reaction at the interface between pentacene andHfO2. Physical Review B, 2005, 72, .	3.2	9
129	Plasma-enhanced synthesis of diamond nanocone films. Thin Solid Films, 2006, 494, 110-115.	1.8	9
130	Unipolar-to-Ambipolar Conversion of Organic Thin-Film Transistors by Organosilane Self-Assembled Monolayer. Journal of Physical Chemistry B, 2008, 112, 16266-16270.	2.6	9
131	Defect-induced ferromagnetism in Mn-doped Cu₂O. Journal of Physics Condensed Matter, 2008, 20, 215216.	1.8	9
132	Nature of the electronic states involved in the chemical bonding and superconductivity at high pressure in SnO. JETP Letters, 2011, 94, 142-146.	1.4	9
133	Structural defects induced by Fe-ion implantation in TiO2. Journal of Applied Physics, 2014, 115, .	2.5	9
134	Oxidized Monolayers of Epitaxial Silicene on Ag(111). Scientific Reports, 2016, 6, 22510.	3.3	9
135	Paving the way towards green catalytic materials for green fuels: impact of chemical species on Mo-based catalysts for hydrodeoxygenation. RSC Advances, 2019, 9, 18292-18301.	3.6	9
136	Electronic structure ofKNbO3: NbM4,5x-ray-fluorescence measurements. Physical Review B, 1999, 60, 4422-4425.	3.2	8
137	Combined study of KNbO3 and KTaO3 by different techniques of photoelectron and X-ray emission spectroscopy. Journal of Physics and Chemistry of Solids, 2000, 61, 265-269.	4.0	8
138	Spectroscopic observation of polaron-lattice band structure in the conducting polymer polyaniline. Journal of Physics Condensed Matter, 2001, 13, 3907-3912.	1.8	8
139	Ti/C and Ti/h-BN nanocomposites: Comparison of hydrogen sorption/desorption properties. Chemical Physics Letters, 2008, 465, 82-85.	2.6	8
140	Characterization of oxide layers formed on electrochemically treated Ti by using soft X-ray absorption measurements. Journal of Electron Spectroscopy and Related Phenomena, 2009, 169, 46-50.	1.7	8
141	Element-specific electronic structure of Mn dopants and ferromagnetism of (Zn,Mn)O thin films. Thin Solid Films, 2010, 518, 2825-2829.	1.8	8
142	Unraveling the Energy Levels of Eu²⁺ Ions in MBe₂₀N₁₄:Eu²⁺ (M = Sr, Ba) Phosphors. Journal of Physical Chemistry C, 2021, 125, 11828-11837.	3.1	8
143	X-ray fluorescence study of organic-inorganic polymer conversion into ceramics induced by ion irradiation. Physical Review B, 1999, 60, 15100-15106.	3.2	7
144	Characterization of CNx films by X-ray emission measurements. Thin Solid Films, 2002, 402, 60-64.	1.8	7

#	Article	IF	Citations
145	The electronic structure of KTaO3: a combined x-ray spectroscopic investigation. Journal of Physics Condensed Matter, 2004, 16, 8213-8219.	1.8	7
146	Experimental evidence of the hybridization of the electron states of an impurity and the conduction band in the HgSe:Fe system. JETP Letters, 2005, 81, 72-74.	1.4	7
147	Excited states in yttrium orthovanadate YVO4 measured by soft X-ray absorption spectroscopy. Journal of Materials Science, 2013, 48, 6437-6444.	3.7	7
148	Polymer conversion into amorphous ceramics by ion irradiation. Journal of Materials Science, 2002, 37, 3789-3793.	3.7	6
149	Ïƒ and Ï€-band dispersion of graphite from polarized resonant inelastic X-ray scattering measurements. JETP Letters, 2003, 77, 108-111.	1.4	6
150	On the bonding situation in TlCo2Se2. Journal of Physics Condensed Matter, 2006, 18, 1757-1768.	1.8	6
151	Interfacial properties and characterization of Sc/Si multilayers. Thin Solid Films, 2010, 518, 3808-3812.	1.8	6
152	Pb+ implanted SiO2 probed by soft x-ray emission and absorption spectroscopy. Journal of Non-Crystalline Solids, 2011, 357, 3381-3384.	3.1	6
153	Evaluation of antioxidant activity and electronic structure of aspirin and paracetamol. Journal of Molecular Structure, 2011, 985, 63-69.	3.6	6
154	Selective Response of Mesoporous Silicon to Adsorbants with Nitro Groups. Chemistry - A European Journal, 2012, 18, 2912-2922.	3.3	6
155	Electronic structure of Co-substituted FeSe superconductor probed by soft x-ray spectroscopy and density functional theory. Physical Review B, 2014, 90, .	3.2	6
156	Selective Area Band Engineering of Graphene using Cobalt-Mediated Oxidation. Scientific Reports, 2015, 5, 15380.	3.3	6
157	Searching for pure iron in nature: the Chelyabinsk meteorite. RSC Advances, 2016, 6, 85844-85851.	3.6	6
158	The hardness of group 14 spinel nitrides revisited. Journal of the Ceramic Society of Japan, 2016, 124, 1063-1066.	1.1	6
159	Origin and control of room temperature ferromagnetism in Co,Zn-doped SnO₂: oxygen vacancies and their local environment. Journal of Materials Chemistry C, 2020, 8, 4902-4908.	5.5	6
160	Electronic Properties of Carbyne Chains: Experiment and Theory. Journal of Physical Chemistry C, 2021, 125, 8268-8273.	3.1	6
161	Comprehensive Band Gap and Electronic Structure Investigations of the Prominent Phosphors M₂Si₅N₈:Eu²⁺ (M = Ca, Sr, Ba) Determined Using Soft X-ray Spectroscopy and Density Functional Theory. Journal of Physical Chemistry C, 2021, 125, 25799-25806.	3.1	6
162	Valence-band spectra of BEDT-TTF and TTF-based magnetic charge-transfer salts. Physical Review B, 2002, 65, .	3.2	5

#	Article	IF	Citations
163	Isomer structure of high-pressure hydrofullerene probed by soft X-ray emission. Computational and Theoretical Chemistry, 2003, 639, 27-33.	1.5	5
164	X-ray emission spectroscopy study of the Verwey transition in Fe3O4. Journal of Physics Condensed Matter, 2003, 15, 2017-2022.	1.8	5
165	Ion irradiation induced reduction of Fe3+to Fe2+and Fe0in triethoxysilane films. Journal of Physics Condensed Matter, 2005, 17, 7023-7028.	1.8	5
166	The effects of bias polarity on diamond deposition by hot-filament chemical vapor deposition. Canadian Journal of Physics, 2005, 83, 753-759.	1.1	5
167	Local electronic structure of Mn dopants in ZnO probed by resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2007, 19, 276210.	1.8	5
168	Energy band structure and X-ray spectra of phenakite Be2SiO4. Physics of the Solid State, 2008, 50, 615-620.	0.6	5
169	Effect of N, C and B interstitial atoms on local bonding structure in mechanically activated TiH2/h-BN, TiH2/C, and TiH2/B mixtures. Journal of Alloys and Compounds, 2009, 483, 309-312.	5.5	5
170	Correlation effects inNiâ€‰3dstates of LaNiPO. Physical Review B, 2010, 81, .	3.2	5
171	Fundamental crystal field excitations in magnetic semiconductor SnO₂: Mn, Fe, Co, Ni. Physical Chemistry Chemical Physics, 2019, 21, 11992-11998.	2.8	5
172	Direct Evidence of Charge Transfer upon Anion Intercalation in Graphite Cathodes through New Electronic States: An Experimental and Theoretical Study of Hexafluorophosphate. Chemistry of Materials, 2020, 32, 2036-2043.	6.7	5
173	Electronic structure of molecular superconductors containing paramagnetic3dions. Physical Review B, 2000, 62, 11380-11383.	3.2	4
174	Soft X-ray fluorescence and photoluminescence of Si nanocrystals embedded in SiO2. Applied Physics A: Materials Science and Processing, 2001, 72, 303-306.	2.3	4
175	The electronic structure of TPD films grown by different methods. Organic Electronics, 2002, 3, 15-21.	2.6	4
176	Soft x-ray fluorescence measurements in materials science. X-Ray Spectrometry, 2002, 31, 219-224.	1.4	4
177	X-ray emission spectra of vanadium atoms in a new series of (Cu,V)-based high-Tc superconductors. Journal of Solid State Chemistry, 2003, 170, 188-191.	2.9	4
178	Tight-binding model for the x-ray absorption and emission spectra of diluteGaNxAs1â^'xat the nitrogenKedge. Physical Review B, 2004, 69, .	3.2	4
179	Influence of the Coulomb parameter U on partial densities of states of CuGeO $_mathsf{3}$: comparison with X-ray spectral data. European Physical Journal B, 2004, 41, 295-300.	1.5	4
180	An x-ray emission and density functional theory study of the electronic structure of Zn1â^'xMnxS. Journal of Physics Condensed Matter, 2006, 18, 10405-10412.	1.8	4

#	Article	IF	Citations
181	Influence of 2-mercapto-5-nitrobenzimidazole treatment on the electronic characteristics of bottom-contact organic field-effect transistors. Organic Electronics, 2008, 9, 1010-1016.	2.6	4
182	X-ray emission and photoluminescence spectroscopy of nanostructured silica with implanted copper ions. Physics of the Solid State, 2008, 50, 2322-2326.	0.6	4
183	Characterization of chemically treated titanium using soft X-ray fluorescence. Materials Science and Engineering C, 2009, 29, 136-139.	7.3	4
184	Structural models of FeSex. Journal of Physics Condensed Matter, 2009, 21, 435702.	1.8	4
185	Interplay of ballistic and chemical effects in the formation of structural defects for Sn and Pb implanted silica. Journal of Non-Crystalline Solids, 2012, 358, 3187-3192.	3.1	4
186	Oxygen Vacancy Induced Structural Distortions in Black Titania: Aâ€‰Unique Approach using Soft Xâ€ray EXAFS at the Oâ€“K Edge. Chemistry - A European Journal, 2019, 25, 3272-3278.	3.3	4
187	Decay mechanisms of the4dcore hole through the4dâ^’4fresonance in dysprosium. Physical Review B, 1999, 60, 15728-15731.	3.2	3
188	Probing changes in theMn3dband ofSm0.525Sr0.475MnO3induced by oxygen isotope substitution. Physical Review B, 2006, 74, .	3.2	3
189	Determining the sp2/sp3 bonding concentrations of carbon films using X-ray absorption spectroscopy. Canadian Journal of Physics, 2008, 86, 1401-1407.	1.1	3
190	Electronic structure of Mn in (Zn, Mn)O probed by resonant X-ray emission spectroscopy. Solid State Communications, 2010, 150, 1065-1068.	1.9	3
191	X-ray absorption and emission spectroscopic investigation of Mn doped ZnO films. Applied Surface Science, 2011, 257, 10748-10748.	6.1	3
192	Structural ordering in a silica glass matrix under Mn ion implantation. Journal of Physics Condensed Matter, 2012, 24, 185402.	1.8	3
193	Structureâ€Induced Switching of the Band Gap, Charge Order, and Correlation Strength in Ternary Vanadium Oxide Bronzes. Chemistry - A European Journal, 2017, 23, 9846-9856.	3.3	3
194	Tunability of room-temperature ferromagnetism in spintronic semiconductors through nonmagnetic atoms. Physical Review B, 2017, 96, .	3.2	3
195	A Probe of Valence and Conduction Band Electronic Structure of Lead Oxide Films for Photodetectors. ChemPhysChem, 2019, 20, 3328-3335.	2.1	3
196	Band gap and electronic structure of defects in the ternary nitride BP₃N₆: experiment and theory. Journal of Materials Chemistry C, 0, , .	5.5	3
197	Local and electronic structure of carbon and nitrogen atoms in oxycarbonitrate superconductors. Physica C: Superconductivity and Its Applications, 2001, 363, 55-59.	1.2	2
198	An indirect probe of the possible half-metallic nature of LiFePO4 using resonant inelastic X-ray scattering. Journal of Physics and Chemistry of Solids, 2005, 66, 2290-2294.	4.0	2

#	Article	IF	Citations
199	Molecular orientation and optical luminescence properties of soluble star shaped oligothiophene molecules for organic electronic applications. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 355-359.	1.7	2
200	Reduction of conductivity and ferromagnetism induced by Ag doping in ZnO:Co. Thin Solid Films, 2013, 545, 488-495.	1.8	2
201	Electronic Structure of FeSe_{1â€“x}Te_x Studied by X-ray Spectroscopy and Density Functional Theory. Journal of Physical Chemistry C, 2014, 118, 25150-25157.	3.1	2
202	Pronounced, Reversible, and in Situ Modification of the Electronic Structure of Graphene Oxide via Buckling below 160 K. Journal of Physical Chemistry Letters, 2015, 6, 3163-3169.	4.6	2
203	Energy band gaps and excited states in Si QD/SiO_x/R_{yâ€Š}O_z (Râ€‰â€‰=â€‰â€‰Si, Al, Zr) suboxide superlattices. Journal of Physics Condensed Matter, 2019, 31, 415301.	1.8	2
204	Electronic structure investigation of wide band gap semiconductorsâ€”Mg2PN3 and Zn2PN3: experiment and theory. Journal of Physics Condensed Matter, 2020, 32, 405504.	1.8	2
205	Measuring partial fluorescence yield using filteredÂdetectors. Journal of Synchrotron Radiation, 2014, 21, 716-721.	2.4	2
206	Inverseâ€Tunable Red Luminescence and Electronic Properties of Nitridoberylloaluminates Sr_{2â^’x}Ba_x[BeAl₃N₅]:Eu²⁺ (x=0â€“2). Chemistry - A European Journal, 2022, 28, .	3.3	2
207	Detecting a Hierarchy of Deep-Level Defects in the Model Semiconductor ZnSiN₂. Journal of Physical Chemistry C, 2021, 125, 27959-27965.	3.1	2
208	X-ray fluorescence measurements of organic superconductorsÎºâ^’(ET)2Cu[N(CN)2]BrandÎºâ^’(ET)2Cu(NCS)2. Physical Review B, 1999, 60, 13169-13174.	3.2	1
209	Resonant Raman scattering in Nd2O3 and the electronic structure of Sr2RuO4 studied by synchrotron radiation excitation. Journal of Physics and Chemistry of Solids, 2000, 61, 435-444.	4.0	1
210	Electronic structure of charge transfer salts. Physical Review B, 2001, 64, .	3.2	1
211	Local Environment of Fluorine Atoms in Sr[sub 2]Ca[sub n][sub â€“ 1]Cu[sub n]O[sub 2][sub n][sub + Î´]F[sub 2 Â±][sub y] (n = 2, 3) High-Temperature Superconductors Grown under High Pressure. Physics of the Solid State, 2005, 47, 1211.	0.6	1
212	The origin of an elastic line in the L 3 x-ray emission spectrum of metallic manganese. Physics of the Solid State, 2006, 48, 420-426.	0.6	1
213	X-ray spectra and electronic structure of Sc and Ti dihydrides. Journal of Physics Condensed Matter, 2008, 20, 335224.	1.8	1
214	Electronic structure of d[sup 0] vanadates obtained by x-ray absorption and emission spectroscopies.. , 2009, , .		1
215	Electronic structure of the Si-C-N amorphous films. Physics of the Solid State, 2011, 53, 1806-1810.	0.6	1
216	Formation of Mn-oxide clusters in Mn+-implanted SiO2 probed by soft X-ray emission and absorption spectroscopy. Vacuum, 2012, 86, 1615-1617.	3.5	1

#	Article	IF	Citations
217	Fast electron dynamics in vanadates measured by resonant inelastic x-ray scattering. Materials Letters, 2013, 107, 144-146.	2.6	1
218	Determination of the Critical Current Density in <inline-formula> <tex-math notation="TeX">$hbox{YBa}_{2}hbox{Cu}_{3}hbox{O}_{7-delta}$</tex-math></inline-formula> Thin Films Measured by the Screening Technique Under Two Criteria. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	1
219	Electronic structure and structural defects in 3d-metal doped In2O3. Journal of Materials Science: Materials in Electronics, 2019, 30, 14091-14098.	2.2	1
220	Tuning the Electronic Band Gap of Oxygen-Bearing Cubic Zirconium Nitride: c-Zr3â€“x(N1â€“xOx)4. ACS Applied Electronic Materials, 0, , .	4.3	1
221	Examples of soft X-ray emission and inelastic scattering excited by synchrotron radiation. Journal of Alloys and Compounds, 1999, 286, 47-55.	5.5	0
222	Soft-x-ray fluorescence study of the quasi-one-dimensional Heisenberg antiferromagnet tetraphenylverdazyl. Physical Review B, 2000, 62, 15660-15665.	3.2	0
223	LOCAL ELECTRONIC STRUCTURE OF DOPING ATOMS IN MA2Can-1CunO2n+3 HIGH-Tc SUPERCONDUCTORS WITH [M-12(n-1)n] TYPE STRUCTURES. Surface Review and Letters, 2002, 09, 1345-1349.	1.1	0
224	Meeting Reports: Canadian Light Source Seventh Annual Users' Meeting Workshops. Synchrotron Radiation News, 2005, 18, 2-6.	0.8	0
225	Thermodynamic and kinetic factors effecting hydrogen absorption on metal hydrides. International Journal of Hydrogen Energy, 2008, 33, 7505-7506.	7.1	0
226	Electronic structure of hydrogenated amorphous Si1-xNxthin films using soft X-ray emission and absorption measurements. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 935-939.	1.8	0
227	RIXS approach to local environment around impurity atoms in diluted magnetic semiconductors and dielectrics. Journal of Electron Spectroscopy and Related Phenomena, 2010, 181, 202-205.	1.7	0
228	Boron Enhanced Synthesis of Ti-hydride Nanoparticles by Milling Ti/B in Hydrogen Flow. Current Nanoscience, 2011, 7, 757-769.	1.2	0
229	Frontispiece: Oxygen Vacancy Induced Structural Distortions in Black Titania: Aâ€‰Unique Approach using Soft X-ray EXAFS at the O-K Edge. Chemistry - A European Journal, 2019, 25, .	3.3	0
230	Experimental and theoretical characterization of x-ray induced excitons, magnons, and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>d</mml:mi><mml:mi>d</mml:mi></mml:mrow></mml:ma transitions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoO</mml:mi><mml:mn>3</mml:mn></mml:msub></mm nanosheets. Physical Review Materials, 2022, 6, .	2.4	0