

Ernst Z Kurmaev

List of Publications by Year in descending order

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441
papers

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70961

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65
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444
all docs

444
docs citations

444
times ranked

10188
citing authors

#	ARTICLE	IF	CITATIONS
1	Mn ³ exchange splitting in mixed-valence manganites. Physical Review B, 2002, 65, .	1.1	499
2	Probing the Intrinsic Thermal and Photochemical Stability of Hybrid and Inorganic Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 1211-1218.	2.1	216
3	Oxygen x-ray emission and absorption spectra as a probe of the electronic structure of strongly correlated oxides. Physical Review B, 2008, 77, .	1.1	139
4	Local moments in Mn-based Heusler alloys and their electronic structures. Physical Review B, 1999, 60, 6428-6438.	1.1	130
5	Oxygen-vacancy-induced ferromagnetism in undoped SnO ₂ thin films. Physical Review B, 2012, 85, .	1.1	124
6	Electronic structure of titanium monoxide. Physical Review B, 1997, 56, 10656-10667.	1.1	107
7	Valence-band spectra and electronic structure of CuFeO ₂ . Physical Review B, 1997, 56, 4584-4591.	1.1	105
8	Effect of Co and O defects on the magnetism in Co-doped ZnO: Experiment and theory. Physical Review B, 2007, 75, .	1.1	99
9	Photoemission study of the metal-insulator transition in Cu ₂ S ₄ . Physical Review B, 1997, 55, R15979-R15982.	1.1	88
10	Light or Heat: What Is Killing Lead Halide Perovskites under Solar Cell Operation Conditions?. Journal of Physical Chemistry Letters, 2020, 11, 333-339.	2.1	85
11	Band-structure description of Mott insulators (NiO, MnO, FeO, CoO). Journal of Physics Condensed Matter, 1990, 2, 3973-3987.	0.7	81
12	Hexaazatriphenylene-based polymer cathode for fast and stable lithium-, sodium- and potassium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 22596-22603.	5.2	80
13	Band gaps and electronic structure of alkaline-earth and post-transition-metal oxides. Physical Review B, 2010, 81, .	1.1	78
14	Epoxide Speciation and Functional Group Distribution in Graphene Oxide Paper-Like Materials. Advanced Functional Materials, 2012, 22, 3950-3957.	7.8	73
15	FeAs systems: a new class of high-temperature superconductors. Physics-Uspokhi, 2008, 51, 1261-1286.	0.8	70
16	The Metallic Nature of Epitaxial Silicene Monolayers on Ag(111). Advanced Functional Materials, 2014, 24, 5253-5259.	7.8	69
17	High-Energy and High-Power-Density Potassium Ion Batteries Using Dihydrophenazine-Based Polymer as Active Cathode Material. Journal of Physical Chemistry Letters, 2019, 10, 5440-5445.	2.1	68
18	Electronic structure of BiM ₂ O ₆ and related oxides. Physical Review B, 2010, 81, .	1.1	64

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19	Degree of covalency of LiCoO ₂ : X-ray emission and photoelectron study. Solid State Communications, 1996, 99, 221-224.	0.9	63
20	Electronic structure, charge transfer, and intrinsic luminescence of gadolinium oxide nanoparticles: Experiment and theory. Applied Surface Science, 2018, 436, 697-707.	3.1	63
21	Valence Band Structure and X-ray Spectra of Oxygen-Deficient Ferrites SrFeO _x . Journal of Physical Chemistry C, 2010, 114, 5154-5159.	1.5	59
22	Electronic structure of studied by x-ray photoelectron and x-ray emission spectroscopies. Journal of Physics Condensed Matter, 1998, 10, 4081-4091.	0.7	56
23	Band gap engineering of graphene oxide by chemical modification. Carbon, 2014, 75, 366-371.	5.4	56
24	Reversible Pb ²⁺ /Pb ⁰ and I [•] /I ₃ [•] Redox Chemistry Drives the Light-Induced Phase Segregation in All-Inorganic Mixed Halide Perovskites. Advanced Energy Materials, 2021, 11, 2002934.	10.2	56
25	Electronic Structure of the Nucleobases. Journal of Physical Chemistry B, 2005, 109, 7749-7757.	1.2	55
26	Appearance of Ferromagnetism in Co-Doped CeO ₂ Diluted Magnetic Semiconductors Prepared by Solid-State Reaction. Journal of Physical Chemistry C, 2011, 115, 1556-1560.	1.5	55
27	Electronic structure of Co _x TiSe ₂ and Cr _x TiSe ₂ . Physical Review B, 2001, 63, .	1.1	53
28	Nickel(II) and Copper(II) Coordination Polymers Derived from 1,2,4,5-Tetraaminobenzene for Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 5197-5205.	3.2	52
29	The L ₂ :L ₃ intensity ratio in soft X-ray emission spectra of 3d-metals. Journal of Electron Spectroscopy and Related Phenomena, 2005, 148, 1-4.	0.8	51
30	Characterization of Carbon-Encapsulated Nickel and Iron Nanoparticles by Means of X-ray Absorption and Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 22413-22416.	1.5	51
31	Metal-insulator transition in $\text{NiS}_{1-x}\text{Te}_x$. Physical Review B, 2010, 81, .		
32	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.	1.5	50
33	XPS spectra as a tool for studying photochemical and thermal degradation in APbX ₃ hybrid halide perovskites. Nano Energy, 2021, 79, 105421.	8.2	50
34	Experimental and theoretical investigation of the electronic structure of transition metal sulphides: CuS, and. Journal of Physics Condensed Matter, 1998, 10, 1687-1697.	0.7	49
35	Valence states of copper ions and electronic structure of LiCu ₂ O ₂ . Physical Review B, 1998, 57, 4377-4381.	1.1	48
36	Efficient and Stable MAPbI ₃ -Based Perovskite Solar Cells Using Polyvinylcarbazole Passivation. Journal of Physical Chemistry Letters, 2020, 11, 6772-6778.	2.1	48

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37	XPS study of interactions between linear carbon chains and colloidal Au nanoparticles. Mendeleev Communications, 2020, 30, 285-287.	0.6	48
38	Band Gap Tuning in Poly(triazine imide), a Nonmetallic Photocatalyst. Journal of Physical Chemistry C, 2013, 117, 8806-8812.	1.5	47
39	Origin of magnetic circular dichroism in soft x-ray fluorescence of Heusler alloys at threshold excitation. Physical Review B, 2001, 63, .	1.1	46
40	The characterization of Co-nanoparticles supported on graphene. RSC Advances, 2015, 5, 75600-75606.	1.7	46
41	Intrinsic thermal decomposition pathways of lead halide perovskites APbX3. Solar Energy Materials and Solar Cells, 2020, 213, 110559.	3.0	45
42	Interlayer conduction band states in graphite-sulfur composites. Physical Review B, 2002, 66, .	1.1	43
43	Band approach to the excitation-energy dependence of x-ray fluorescence of TiO2. Physical Review B, 1999, 60, 2212-2217.	1.1	42
44	Electronic structure and bonding in vitamin B12, cyanocobalamin. Computational and Theoretical Chemistry, 2003, 622, 221-227.	1.5	42
45	Surface characterisation and corrosion behaviour of niobium treated in a Ca- and P-containing solution under sparking conditions. Electrochimica Acta, 2016, 198, 91-103.	2.6	42
46	Electronic structure of a Mn12 molecular magnet: Theory and experiment. Physical Review B, 2007, 75, .	1.1	41
47	X-ray spectra and electronic structures of the iron arsenide superconductors $R\text{FeAsO}$		

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55	Electronic structure and chemical bonding in nonstoichiometric compounds of refractory transition metals of the IVa and Va subgroups. Journal of the Less Common Metals, 1981, 78, 1-17.	0.9	37
56	Electronic structure of MgB ₂ : X-ray emission and absorption studies. Physical Review B, 2002, 65, .	1.1	36
57	Comparative Intrinsic Thermal and Photochemical Stability of Sn(II) Complex Halides as Next-Generation Materials for Lead-Free Perovskite Solar Cells. Journal of Physical Chemistry C, 2019, 123, 26862-26869.	1.5	36
58	Electronic structure of niobium oxides. Journal of Alloys and Compounds, 2002, 347, 213-218.	2.8	35
59	Effect of 3d doping on the electronic structure of BaFe ₂ As ₂ . Journal of Physics Condensed Matter, 2012, 24, 215501.	0.7	35
60	Sn-loss effect in a Sn-implanted a-SiO ₂ host-matrix after thermal annealing: A combined XPS, PL, and DFT study. Applied Surface Science, 2016, 367, 320-326.	3.1	35
61	New tetraazapentacene-based redox-active material as a promising high-capacity organic cathode for lithium and potassium batteries. Journal of Power Sources, 2019, 435, 226724.	4.0	35
62	Unravelling the Material Composition Effects on the Gamma Ray Stability of Lead Halide Perovskite Solar Cells: MAPbI ₃ Breaks the Records. Journal of Physical Chemistry Letters, 2020, 11, 2630-2636.	2.1	35
63	Unraveling the Impact of Hole Transport Materials on Photostability of Perovskite Films and p-i-n Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 19161-19173.	4.0	35
64	Half-metallic electronic structure of CrO ₂ in resonant scattering. Physical Review B, 2003, 67, .	1.1	34
65	High-Tc Superconductors Based on FeAs Compounds. Springer Series in Materials Science, 2010, .	0.4	34
66	Effect of post-annealing in air on optical and XPS spectra of Y ₂ O ₃ ceramics doped with CeO ₂ . Mendeleev Communications, 2019, 29, 102-104.	0.6	34
67	X-ray emission spectra of carbon materials. Carbon, 1986, 24, 249-253.	5.4	33
68	Studies of Solid Interfaces Using Soft X-ray Emission Spectroscopy. Critical Reviews in Solid State and Materials Sciences, 1998, 23, 65-203.	6.8	33
69	Electronic structure of carbon-doped In ₂ O ₃ via unpaired dopant electrons and p-p coupling in carbon-doped In ₂ O ₃ . Journal of Applied Physics, 2019, 125, 155701.	1.1	33
70	Surface characterisation of Ti-15Mo alloy modified by a PEO process in various suspensions. Materials Science and Engineering C, 2014, 39, 259-272.	3.8	33
71	X-ray emission spectra and electronic structure of amorphous silicon. Journal of Non-Crystalline Solids, 1985, 70, 187-198.	1.5	32
72	Soft X-ray emission spectroscopy of early transition metal compounds. Journal of Electron Spectroscopy and Related Phenomena, 1998, 92, 197-205.	0.8	32

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73	Effect of Co doping on the electronic structure of MgCNi ₃ . Physical Review B, 2002, 66, .	1.1	32
74	Materials with strong electron correlations. Physics-Uspekhi, 2008, 51, 23-56.	0.8	32
75	Adjacent Fe-Vacancy Interactions as the Origin of Room Temperature Ferromagnetism in		

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91	Electronic structure of Sr ₂ RuO ₄ : X-ray fluorescence emission study. <i>Physical Review B</i> , 1998, 57, 1558-1562.	1.1	28
92	Effects of NH ₃ , O ₂ , and N ₂ co-implantation on Cu out-diffusion and antimicrobial properties of copper plasma-implanted polyethylene. <i>Applied Surface Science</i> , 2007, 253, 8981-8985.	3.1	28
93	XPS and DFT study of Sn incorporation into ZnO and TiO ₂ host matrices by pulsed ion implantation. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1890-1896.	0.7	28
94	Soft electronic structure modulation of surface (thin-film) and bulk (ceramics) morphologies of TiO ₂ host by Pb-implantation: XPS and DFT characterization. <i>Applied Surface Science</i> , 2017, 400, 110-117.	3.1	28
95	Contribution of Fe to the Fermi level of $\text{CaFe}_3\text{O}_{10}$. <i>Physical Review B</i> , 2009, 80, .	1.1	27
96	Carbon States in Carbon-Encapsulated Nickel Nanoparticles Studied by Means of X-ray Absorption, Emission, and Photoelectron Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24615-24620.	1.5	27
97	Electronic valence band structure of high-T _c superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 177, 8-16.	0.6	26
98	Electronic structure of alkali-metal-doped M ₈ Si ₄₆ (M=Na,K) clathrates. <i>Physical Review B</i> , 2002, 65, .	1.1	26
99	The electronic structure and chemical bonding of vitamin B ₁₂ . <i>Europhysics Letters</i> , 2003, 62, 582-587.	0.7	26
100	Electronic structure and thermoelectric properties of skutterudite compounds. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 979-987.	0.7	26
101	Study of the Structural Characteristics of 3d Metals Cr, Mn, Fe, Co, Ni, and Cu Implanted in ZnO and TiO ₂ . <i>Experiment and Theory. Journal of Physical Chemistry C</i> , 2014, 118, 28143-28151.	1.5	26
102	Valence states of titanium atoms in non-stoichiometric carbides: X-ray emission spectra and cluster calculations. <i>Journal of Physics C: Solid State Physics</i> , 1981, 14, 5567-5574.	1.5	25
103	X-ray emission and photoelectron spectra of Pr _{0.5} Sr _{0.5} MnO ₃ . <i>Physical Review B</i> , 1999, 59, 12799-12806.	1.1	24
104	Observation of fluorapatite formation under hydrolysis of tetracalcium phosphate in the presence of KF by means of soft X-ray emission and absorption spectroscopy. <i>Journal of Materials Science: Materials in Medicine</i> , 2002, 13, 33-36.	1.7	24
105	An insight into the origin of room-temperature ferromagnetism in SnO ₂ and Mn-doped SnO ₂ quantum dots: an experimental and DFT approach. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6500-6514.	1.3	24
106	DC plasma electrolytic oxidation treatment of gum metal for dental implants. <i>Electrochimica Acta</i> , 2019, 302, 10-20.	2.6	24
107	Electronic structure of LiMnO ₂ : X-ray emission and photoelectron spectra and band structure calculations. <i>European Physical Journal B</i> , 2000, 14, 281-286.	0.6	23
108	X-ray Ce LIII absorption in CeO ₂ and BaCeO ₃ : experiment and interpretation on the basis of LMTO band structure calculations. <i>Materials Letters</i> , 1992, 14, 115-118.	1.3	22

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109	Soft X-ray emission CuL spectra and copper-oxygen bond covalency in high-Tc superconductors. Solid State Communications, 1992, 81, 1003-1007.	0.9	22
110	Mechanism for interfacial adhesion strength of an ion beam mixed Cu/polyimide with a thin buffer layer. Applied Physics Letters, 1999, 74, 522-524.	1.5	22
111	Chemical Bonding and Hybridization in 5d Binary Oxide. Journal of Physical Chemistry C, 2012, 116, 24248-24254.	1.5	22
112	Impact of charge transport layers on the photochemical stability of MAPbI ₃ in thin films and perovskite solar cells. Sustainable Energy and Fuels, 2019, 3, 2705-2716.	2.5	22
113	Film Deposition Techniques Impact the Defect Density and Photostability of MAPbI ₃ Perovskite Films. Journal of Physical Chemistry C, 2020, 124, 21378-21385.	1.5	22
114	X-ray photoemission spectra of valence electrons in V ₃ X and Nb ₃ X compounds. Solid State Communications, 1977, 21, 239-243.	0.9	21
115	Interpretation of ESCA spectra for non-stoichiometric titanium carbides on the basis of MO-LCAO calculations. Journal of Electron Spectroscopy and Related Phenomena, 1979, 16, 415-422.	0.8	21
116	Synthesis, structure, and XPS characterization of the stoichiometric phase Sr ₂ CuO ₂ F ₂ . Physical Review B, 1997, 56, 2831-2835.	1.1	21
117	Electronic structure of the molecule-based magnet Mn[N(CN) ₂] ₂ from theory and experiment. Physical Review B, 2002, 66, .	1.1	21
118	Dependence of DNA Electronic Structure on Environmental and Structural Variations. Journal of Physical Chemistry B, 2006, 110, 15742-15748.	1.2	21
119	Spectroscopic characterization of a multiband complex oxide: Insulating and conducting cement 12CaO·7Al ₂ O ₃ . Physical Review B, 2012, 85, .	1.1	21
120	Electronic structure and magnetic properties of graphene/Co composite. Carbon, 2015, 91, 298-303.	5.4	21
121	Tuning the electronic structure of graphene through nitrogen doping: experiment and theory. RSC Advances, 2016, 6, 56721-56727.	1.7	21
122	Electronic structure and experimental spectra of some rare-earth oxyfluorides. Journal of Electron Spectroscopy and Related Phenomena, 1980, 21, 193-204.	0.8	20
123	Analysis of fluorine incorporation into YBa ₂ Cu ₃ O _{6.5} by means of X-ray emission spectroscopy. Physica C: Superconductivity and Its Applications, 1994, 221, 71-75.	0.6	20
124	X-ray emission, photoelectron spectra, and electronic structure of Sr ₂ CuO ₂ F ₂ . Physical Review B, 1995, 52, 2390-2394.	1.1	20
125	Modification of titanium and titanium dioxide surfaces by ion implantation: Combined XPS and DFT study. Physica Status Solidi (B): Basic Research, 2015, 252, 748-754.	0.7	20
126	Electronic structure and photoluminescence properties of Zn-ion implanted silica glass before and after thermal annealing. Journal of Non-Crystalline Solids, 2016, 432, 183-188.	1.5	20

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145	Solid versus solution: Examining the electronic structure of metallic DNA with soft x-ray spectroscopy. <i>Physical Review B</i> , 2006, 74, .	1.1	17
146	Linking the HOMO-LUMO gap to torsional disorder in P3HT/PCBM blends. <i>Journal of Chemical Physics</i> , 2015, 143, 224704.	1.2	17
147	Band Structure and Superconductivity of A_3B -Type Intermetallic Compounds with f -W Structure. <i>Physica Status Solidi (B): Basic Research</i> , 1967, 24, K43.	0.7	16
148	X-ray emission spectra and valence band structure of the 3d transition metal oxides. <i>Physica B: Condensed Matter</i> , 1991, 168, 163-169.	1.3	16
149	Electronic structure of $Cu_{1-x}Ni_xRh_2S_4$ and $CuRh_2Se_4$: Band-structure calculations, x-ray photoemission, and fluorescence measurements. <i>Physical Review B</i> , 2000, 61, 4230-4237.	1.1	16
150	Electronic structure of graphite fluorides. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 288, 340-344.	0.9	16
151	Analysis of XPS and XES of diamond and graphite by DFT calculations using model molecules. <i>Journal of Computational Chemistry</i> , 2001, 22, 102-108.	1.5	16
152	High-resolution angle-resolved photoemission investigation of the electronic structure of Cr-intercalated $1Td-CrTe_2$. <i>Physical Review B</i> , 2005, 72, .	1.1	16
153	Identifying valence structure in LiFeAs and NaFeAs with core-level spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 345701.	0.7	16
154	Band-gap engineering in TiO_2 -based ternary oxides. <i>Physical Review B</i> , 2012, 85, .	1.1	16
155	Electronic band gap reduction and intense luminescence in Co and Mn ion-implanted SiO_2 . <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	16
156	Calculations of bandstructure of intermetallic compounds using the multiple scattering $X\hat{\mu}$ cluster method and k dependent boundary conditions. <i>Journal of Physics F: Metal Physics</i> , 1981, 11, 405-418.	1.6	15
157	$CK\hat{\mu}$ X-ray emission spectra of C_{60} . <i>Physica C: Superconductivity and Its Applications</i> , 1992, 195, 352-354.	0.6	15
158	Sulphur-oxygen substitution in $YBa_2Cu_3O_{6+x}S_y$ analyzed by means of X-ray emission spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 211, 29-35.	0.6	15
159	Characterization of diamondlike films by x-ray emission spectroscopy with high-energy resolution. <i>Journal of Applied Physics</i> , 1993, 73, 4605-4609.	1.1	15
160	Electronic structure and valence-band spectra of $Bi_4Ti_3O_{12}$. <i>Physical Review B</i> , 1995, 52, 11805-11812.	1.1	15
161	No multiatom resonances observed in x-ray fluorescence. <i>Physical Review B</i> , 2000, 62, 15427-15430.	1.1	15
162	Interaction of Cu_3d and O_2p states in $Mg_{1-x}Cu_xO$ solid solutions with NaCl structure: x-ray photoelectron and x-ray emission study. <i>Physical Review B</i> , 2000, 62, 4922-4926.	1.1	15

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163	Band dispersion of MgB ₂ , graphite and diamond from resonant inelastic scattering. Journal of Physics Condensed Matter, 2003, 15, 2081-2089.	0.7	15
164	Resonant inelastic soft x-ray scattering and electronic structure of LiBC. Journal of Physics Condensed Matter, 2004, 16, 5137-5142.	0.7	15
165	Local Structure of Fe Impurity Atoms in ZnO: Bulk versus Surface. Journal of Physical Chemistry C, 2014, 118, 5336-5345.	1.5	15
166	XPS evidence of degradation mechanism in CH ₃ NH ₃ PbI ₃ hybrid perovskite. Journal of Physics Condensed Matter, 2020, 32, 095501.	0.7	15
167	Interaction of graphene oxide with barium titanate in composite: XPS and DFT studies. Journal of Alloys and Compounds, 2020, 840, 155747.	2.8	15
168	Analysis of the depth profile of Fe-Si buried layers in Fe ⁺ -implanted Si wafer by soft X-ray emission spectroscopy. Applied Surface Science, 1993, 72, 73-77.	3.1	14
169	Soft-x-ray-emission study of the influence of Li ⁺ -doping, irradiation, and plastic deformation on CuO. Physical Review B, 1999, 59, 211-214.	1.1	14
170	Electronic structure of FeCr ₂ S ₄ and Fe _{0.5} Cu _{0.5} Cr ₂ S ₄ . Journal of Physics Condensed Matter, 2000, 12, 5411-5421.	0.7	14
171	Local magnetic moments at X-ray spectra of 3d metals. Journal of Magnetism and Magnetic Materials, 2003, 256, 396-403.	1.0	14
172	Influence of Graphite Addition on the Reactivity of Ti Powder with H ₂ under Ball Milling. Journal of Physical Chemistry B, 2006, 110, 196-204.	1.2	14
173	Soft X-ray absorption and emission characterization of nanodiamond prepared by explosive detonation. Diamond and Related Materials, 2007, 16, 350-352.	1.8	14
174	Charge transfer and band gap of ferrocene intercalated into TiSe ₂ . Chemical Physics Letters, 2010, 497, 187-190.	1.2	14
175	Identifying local dopant structures and their impact on the magnetic properties of spintronic materials. Physical Review B, 2011, 83, .	1.1	14
176	Cu@CeO ₂ nanocomposites: mechanochemical synthesis, physico-chemical properties, CO-PROX activity. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	14
177	ITO Modification for Efficient Inverted Organic Solar Cells. Langmuir, 2017, 33, 10118-10124.	1.6	14
178	Thermal Effects and Halide Mixing of Hybrid Perovskites: MD and XPS Studies. Journal of Physical Chemistry A, 2020, 124, 135-140.	1.1	14
179	The electronic structure of NbO: Theory and experiment. Journal of Physics and Chemistry of Solids, 1978, 39, 1157-1161.	1.9	13
180	X-ray spectra and electronic structure of high-T _c superconductors La _{1.83} Sr _{0.17} CuO ₄ and Bi ₄ Ca ₃ Sr ₃ O ₁₆ . Physica C: Superconductivity and Its Applications, 1989, 160, 267-272.	0.6	13

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181	Effects of Ce and F doping and reduction on the electronic structure of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ and $\text{Nd}_2\text{CuO}_{3.6}\text{F}_{0.4}$ as determined by x-ray-emission spectroscopy. <i>Physical Review B</i> , 1993, 47, 9035-9041.	1.1	13
182	Electronic structure of FeSi. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 5529-5535.	0.7	13
183	X-ray emission spectroscopic studies of silicon precipitation in surface layer of SiO_2 induced by argon excimer laser irradiation. <i>Applied Surface Science</i> , 1998, 126, 83-91.	3.1	13
184	Stability and Electronic Characteristics of Epitaxial Silicene Multilayers on Ag(111). <i>Advanced Functional Materials</i> , 2015, 25, 4083-4090.	7.8	13
185	Structural defects and electronic structure of N-ion implanted TiO_2 : Bulk versus thin film. <i>Applied Surface Science</i> , 2015, 355, 984-988.	3.1	13
186	Pleomorphic structural imperfections caused by pulsed Bi-implantation in the bulk and thin-film morphologies of TiO_2 . <i>Applied Surface Science</i> , 2016, 379, 223-229.	3.1	13
187	Characterisation of anodic oxide films on zirconium formed in sulphuric acid: XPS and corrosion resistance investigations. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 203-210.	1.2	13
188	Influence of the crystal structure and the degree of ordering on the vanadium K-emission spectrum from V3Au-alloy. <i>Solid State Communications</i> , 1975, 16, 1139-1142.	0.9	12
189	Excited states in X-ray $L_{2,3}$ emission spectra of transition metals in oxygen compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1979, 16, 455-462.	0.8	12
190	Application of high energy resolved X-ray emission spectroscopy for monitoring of silicide formation in Co/ SiO_2 /Si system. <i>Thin Solid Films</i> , 1997, 311, 28-32.	0.8	12
191	Magnetic circular dichroism in X-ray fluorescence of Heusler alloys at threshold excitation. <i>Solid State Communications</i> , 2000, 117, 79-82.	0.9	12
192	Soft x-ray emission spectra and ferromagnetism in wide-gap doped semiconductors. <i>Low Temperature Physics</i> , 2009, 35, 79-82.	0.2	12
193	The formation of $\text{Ti}^{\text{IV}}\text{O}$ tetrahedra and band gap reduction in SiO_2 via pulsed ion implantation. <i>Journal of Applied Physics</i> , 2013, 113, 103704.	1.1	12
194	A Re-evaluation of How Functional Groups Modify the Electronic Structure of Graphene Oxide. <i>Advanced Materials</i> , 2014, 26, 4870-4874.	11.1	12
195	Analysis of valence XPS and AES of C, N, O, and F-containing substances by DFT calculations using the model molecules. <i>Chemical Physics</i> , 2015, 452, 31-39.	0.9	12
196	Influence of Alkali Treatment on Anodized Titanium Alloys in Wollastonite Suspension. <i>Metals</i> , 2017, 7, 322.	1.0	12
197	Diamond deposition on Fe-Cr-Al alloy substrates: Effect of native oxidation by XPS and XAS investigation. <i>Journal of Alloys and Compounds</i> , 2018, 740, 887-894.	2.8	12
198	When iodide meets bromide: Halide mixing facilitates the light-induced decomposition of perovskite absorber films. <i>Nano Energy</i> , 2021, 86, 106082.	8.2	12

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199	Densityâ€ofâ€States Curve for V₃Si Built Up from Experimental Xâ€Ray Data. Physica Status Solidi (B): Basic Research, 1971, 43, K49.	0.7	11
200	X-ray emission spectra and quantum chemical calculations of electronic structure of vanadium oxides. Journal of Solid State Chemistry, 1976, 19, 1-11.	1.4	11
201	Soft X-ray fluorescence measurements of irradiated polymer films. Nuclear Instruments & Methods in Physics Research B, 1998, 145, 401-408.	0.6	11
202	Electronic structure of superconducting inorganic polymer (SN) _x . Physica C: Superconductivity and Its Applications, 1999, 321, 191-198.	0.6	11
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