

Martin Magnuson

List of Publications by Year in descending order

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185998

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docs citations

75
times ranked

2873
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical bonding and electronic-structure in MAX phases as viewed by X-ray spectroscopy and density functional theory. Thin Solid Films, 2017, 621, 108-130.	0.8	177
2	Low-energy-dexcitations in MnO studied by resonant x-ray fluorescence spectroscopy. Physical Review B, 1996, 54, 4405-4408.	1.1	139
3	Resonant Photoemission at the 2p Edges of Ni: Resonant Raman and Interference Effects. Physical Review Letters, 1997, 78, 967-970.	2.9	114
4	Crystallization characteristics and chemical bonding properties of nickel carbide thin film nanocomposites. Journal of Physics Condensed Matter, 2014, 26, 415501.	0.7	104
5	Elastic properties and electrostructural correlations in ternary scandium-based cubic inverse perovskites: A first-principles study. Physical Review B, 2009, 79, .	1.1	87
6	Structure and bonding in amorphous iron carbide thin films. Journal of Physics Condensed Matter, 2015, 27, 045002.	0.7	71
7	Bonding mechanism in the nitrides $\langle \text{Ti} \rangle \langle \text{Al} \rangle \langle \text{N} \rangle$ and TiN: An experimental and theoretical investigation. Physical Review B, 2007, 76, .	1.1	69
8	Electronic structure investigation of CoO by means of soft x-ray scattering. Physical Review B, 2002, 65, .	1.1	67
9	Electronic structure of GaN and Ga investigated by soft x-ray spectroscopy and first-principles methods. Physical Review B, 2010, 81, .	1.1	67
10	Chemical bonding in carbide MXene nanosheets. Journal of Electron Spectroscopy and Related Phenomena, 2018, 224, 27-32.	0.8	64
11	Electronic structure and chemical bonding of nanocrystalline-TiC/amorphous-C nanocomposites. Physical Review B, 2009, 80, .	1.1	62
12	Electronic structure investigation of Ti ₃ AlC ₂ , Ti ₃ SiC ₂ , and Ti ₃ GeC ₂ by soft x-ray emission spectroscopy. Physical Review B, 2005, 72, .	1.1	59
13	Electronic structure and chemical bonding in Ti ₂ AlC investigated by soft x-ray emission spectroscopy. Physical Review B, 2006, 74, .	1.1	59
14	Resonant inelastic soft-x-ray scattering from valence-band excitations in 3d0 compounds. Physical Review B, 1997, 55, 4242-4249.	1.1	50
15	Coherent and incoherent processes in resonant photoemission. Applied Physics A: Materials Science and Processing, 1997, 65, 159-167.	1.1	49
16	Review of transition-metal diboride thin films. Vacuum, 2022, 196, 110567.	1.6	48
17	Resonant Inelastic X-Ray Scattering at the Oxygen K Resonance of NiO: Nonlocal Charge Transfer and Double-Singlet Excitations. Physical Review Letters, 2006, 96, 067402.	2.9	47
18	Energy dependence of Cu L _{2,3} satellites using synchrotron excited x-ray-emission spectroscopy. Physical Review B, 1997, 56, 12238-12242.	1.1	46

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19	Electronic structure and chemical bonding in Ti ₄ SiC ₃ investigated by soft x-ray emission spectroscopy and first-principles theory. Physical Review B, 2006, 74, .	1.1	40
20	Electronic structure and chemical bonding of amorphous chromium carbide thin films. Journal of Physics Condensed Matter, 2012, 24, 225004.	0.7	38
21	Self-doping processes between planes and chains in the metal-to-superconductor transition of YBa ₂ Cu ₃ O _{6.9} . Scientific Reports, 2014, 4, 7017.	1.6	38
22	The electronic structure of polyaniline and doped phases studied by soft x-ray absorption and emission spectroscopies. Journal of Chemical Physics, 1999, 111, 4756-4761.	1.2	36
23	Uranium oxides investigated by X-ray absorption and emission spectroscopies. Applied Surface Science, 2006, 252, 5615-5618.	3.1	36
24	Electronic structure of buried Si layers in GaAs(001) as studied by soft-x-ray emission. Physical Review B, 1995, 52, R8643-R8645.	1.1	34
25	Electronic correlation effects in the Cr ₂ GeM _{n+1} AX _x phase. Journal of Physics Condensed Matter, 2013, 25, 035601.	0.7	34
26	Competition between decay and dissociation of core-excited carbonyl sulfide studied by x-ray scattering. Physical Review A, 1999, 59, 4281-4287.	1.0	31
27	Electronic structure and origin of the anisotropic thermopower of annealed Ti ₃ SiC ₂ determined by polarized x-ray spectroscopy and Seebeck measurements. Physical Review B, 2012, 85, .	1.1	31
28	Resonant and nonresonant x-ray scattering spectra of some poly(phenylenevinylene)s. Journal of Chemical Physics, 1998, 108, 5990-5996.	1.2	29
29	Resonant soft x-ray Raman scattering of NiO. Journal of Physics Condensed Matter, 2002, 14, 3669-3676.	0.7	29
30	Electronic structure investigation of the cubic inverse perovskite Sc ₃ Ti ₂ Ge ₂ by soft x-ray emission spectroscopy and first-principles theory. Physical Review B, 2008, 78, .	1.1	29
31	Spin transition in LaCoO ₃ investigated by resonant soft X-ray emission spectroscopy. Europhysics Letters, 2004, 68, 289-295.	0.7	28
32	Anisotropy in the electronic structure of V ₂ GeC by soft x-ray emission spectroscopy and first-principles theory. Physical Review B, 2008, 78, .	1.1	28
33	Electronic structure and chemical bonding anisotropy investigation of wurtzite AlN. Physical Review B, 2009, 80, .	1.1	28
34	Resonant Auger spectroscopy at the L _{2,3} shake-up thresholds as a probe of electron correlation effects in nickel. Physical Review B, 1998, 58, 3677-3681.	1.1	26
35	Electronic-structure investigation of CeB ₆ by means of soft-x-ray scattering. Physical Review B, 2001, 63, .	1.1	25
36	Large magnetic circular dichroism in resonant inelastic x-ray scattering at the Mn L-edge of Mn-Zn ferrite. Physical Review B, 2006, 74, .	1.1	21

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37	Structure and Bonding in Amorphous Cr _{1-x} C _x Nanocomposite Thin Films: X-ray Absorption Spectra and First-Principles Calculations. Journal of Physical Chemistry C, 2016, 120, 12890-12899.	1.5	21
38	The electronic structure of poly(pyridine-2,5-diyl) investigated by soft X-ray absorption and emission spectroscopies. Chemical Physics, 1998, 237, 295-304.	0.9	20
39	Chemical bonding in epitaxial ZrB ₂ studied by X-ray spectroscopy. Thin Solid Films, 2018, 649, 89-96.	0.8	20
40	Electronic structure of $\hat{1}^2$ -Ta films from X-ray photoelectron spectroscopy and first-principles calculations. Applied Surface Science, 2019, 470, 607-612.	3.1	20
41	Chemical bonding of termination species in 2D carbides investigated through valence band UPS/XPS of Ti ₃ C ₂ T _x MXene. 2D Materials, 2021, 8, 045026.	2.0	19
42	Bonding Structures of ZrH _x Thin Films by X-ray Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 25750-25758.	1.5	16
43	Local chemical bonding and structural properties in $\text{Ti}_3\text{C}_2\text{MAX}$ phase and $\text{Ti}_3\text{C}_2\text{MAX}$	1.3	16
44	Specific production of very long-lived core-excited sulfur atoms by $2p\pi \rightarrow 1f^*$ excitation of the OCS molecule followed by ultrafast dissociation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, L269-L275.	0.6	15
45	Vibrational Effects in X-ray Absorption Spectra of Two-Dimensional Layered Materials. Journal of Physical Chemistry C, 2019, 123, 9688-9692.	1.5	14
46	Spectroscopic ellipsometry study on the dielectric function of bulk Ti ₂ AlN, Ti ₂ AlC, Nb ₂ AlC, (Ti _{0.5} Nb _{0.5}) ₂ AlC, and Ti ₃ GeC ₂ MAX-phases. Journal of Applied Physics, 2011, 109, .	1.1	13
47	Magnetic circular dichroism in X-ray fluorescence of Heusler alloys at threshold excitation. Solid State Communications, 2000, 117, 79-82.	0.9	12
48	X-ray fluorescence spectra of metals excited below threshold. Physical Review B, 2003, 68, .	1.1	11
49	Angular-dependent resonant-photoemission processes at the $2p$ thresholds in nickel metal. Physical Review B, 1999, 60, 2436-2440.	1.1	10
50	Resonant inelastic soft-X-ray scattering at the 4d edge of Ce-based heavy-fermion materials. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 783-786.	0.8	10
51	Resonant inelastic soft X-ray scattering spectra at the nitrogen and carbon K-edges of poly(pyridine-2,5-diyl). Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 573-578.	0.8	10
52	Mapping the frontier electronic structures of triphenylamine based organic dyes at TiO ₂ interfaces. Physical Chemistry Chemical Physics, 2011, 13, 3534-3546.	1.3	10
53	Probing surface states of Cu/Ni thin films using x-ray absorption spectroscopy. Physical Review B, 2001, 63, .	1.1	9
54	Resonant X-ray emission and X-ray absorption spectra of 3d metals in Co ₂ MnZ (Z = Ga, Sn, Sb) Heusler alloys as an element-selective probe of spin character of valence band. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 765-769.	0.8	9

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55	The origin of anisotropy and high density of states in the electronic structure of Cr ₂ GeC by means of polarized soft x-ray spectroscopy and ab initio calculations. Journal of Physics Condensed Matter, 2015, 27, 415501.	0.7	9
56	Electronic properties and bonding in ZrH_x thin films investigated by valence-band x-ray photoelectron spectroscopy. Physical Review B, 2017, 96, .	1.1	9
57	Spectroscopic observation of polaron-lattice band structure in the conducting polymer polyaniline. Journal of Physics Condensed Matter, 2001, 13, 3907-3912.	0.7	8
58	Determination of the refractive index at soft X-ray resonances. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 519-522.	0.8	8
59	Induced magnetism at the interfaces of a Fe/V superlattice investigated by resonant magnetic x-ray scattering. Journal of Magnetism and Magnetic Materials, 2017, 422, 362-366.	1.0	8
60	Compositional dependence of epitaxial Ti _n +1Si _n C _n MAX-phase thin films grown from a Ti ₃ SiC ₂ compound target. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	0.9	8
61	Influence of Metal Substitution and Ion Energy on Microstructure Evolution of High-Entropy Nitride (TiZrTaMe) _N (Me = Hf, Nb, Mo, or Cr) Films. ACS Applied Electronic Materials, 2021, 3, 2748-2756.	2.0	8
62	Observation of short- and long-range hybridization of a buried Cu monolayer in Ni. Physical Review B, 2000, 62, R16239-R16242.	1.1	7
63	Reactive magnetron sputtering of tungsten target in krypton/trimethylboron atmosphere. Thin Solid Films, 2019, 688, 137384.	0.8	6
64	Characterization and identification of Au pathfinder minerals from an artisanal mine site using X-ray diffraction. Journal of Materials Science, 2021, 56, 7659-7669.	1.7	6
65	Magnetic anisotropy in Cr ₂ GeC investigated by X-ray magnetic circular dichroism and ab initio calculations. Journal of Magnetism and Magnetic Materials, 2020, 501, 166470.	1.0	5
66	Investigation of Ti ₂ AlC and TiC by soft x-ray emission spectroscopy. Journal of Physics: Conference Series, 2007, 61, 760-764.	0.3	4
67	Valence excitations observed in resonant soft X-ray emission spectra of K ₂ Ni(CN) ₄ ·H ₂ O at the Ni 2p edge. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 909-913.	0.8	3
68	Polarization-dependent resonant inelastic X-ray scattering study at the Cu L and O K -edges of YBa ₂ Cu ₃ O _{7-x} . Journal of Electron Spectroscopy and Related Phenomena, 2018, 224, 38-44.	0.8	3
69			
70	Electronic Structure Investigation of MAX-Phases by Soft X-ray Emission Spectroscopy. Materials Research Society Symposia Proceedings, 2007, 1023, 1.	0.1	2
71	Strain sensitivity in the nitrogen 1 s NEXAFS spectra of gallium nitride. Applied Surface Science, 2014, 316, 232-236.	3.1	2
72	Elucidating Pathfinding Elements from the Kubi Gold Mine in Ghana. Minerals (Basel, Switzerland), 2021, 11, 912.	0.8	1

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73	Max-Phases Investigated by Soft X-Ray Emission Spectroscopy. Ceramic Engineering and Science Proceedings, 0, , 325-329.	0.1	1
74	DudaetÅal.Reply:. Physical Review Letters, 2006, 97, .	2.9	0
75	Correction to "Influence of Metal Substitution and Ion Energy on Microstructure Evolution of High-Entropy Nitride (TiZrTaMe) ₁ N" (Me = Hf, Nb, Mo, or Cr) Films. ACS Applied Electronic Materials, 2022, 4, 1367-1367.	2.0	0