

# Martin Magnuson

## List of Publications by Year in descending order

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75  
papers

2,296  
citations

185998

28  
h-index

223531

46  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2873  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Review of transition-metal diboride thin films. <i>Vacuum</i> , 2022, 196, 110567.   | 1.6 | 48        |
| 2  | Correction to "Influence of Metal Substitution and Ion Energy on Microstructure Evolution of High-Entropy Nitride (TiZrTaMe) <sub>3</sub> N" (Me = Hf, Nb, Mo, or Cr) Films. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1367-1367.                             | 2.0 | 0         |
| 3  | Characterization and identification of Au pathfinder minerals from an artisanal mine site using X-ray diffraction. <i>Journal of Materials Science</i> , 2021, 56, 7659-7669.  | 1.7 | 6         |
| 4  | Influence of Metal Substitution and Ion Energy on Microstructure Evolution of High-Entropy Nitride (TiZrTaMe) <sub>3</sub> N (Me = Hf, Nb, Mo, or Cr) Films. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2748-2756.   | 2.0 | 8         |
| 5  | Elucidating Pathfinding Elements from the Kubi Gold Mine in Ghana. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 912.   | 0.8 | 1         |
| 6  | Chemical bonding of termination species in 2D carbides investigated through valence band UPS/XPS of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene. <i>2D Materials</i> , 2021, 8, 045026.  | 2.0 | 19        |
| 7  | Magnetic anisotropy in Cr <sub>2</sub> GeC investigated by X-ray magnetic circular dichroism and ab initio calculations. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 501, 166470.   | 1.0 | 5         |
| 8  | Local chemical bonding and structural properties in Ti <sub>3</sub> C <sub>2</sub> MAX phase and Zr <sub>2</sub> C <sub>2</sub> MXene. <i>Physical Review Research</i> , 2020, 2, .  | 1.3 | 16        |
| 9  | Reactive magnetron sputtering of tungsten target in krypton/trimethylboron atmosphere. <i>Thin Solid Films</i> , 2019, 688, 137384.  | 0.8 | 6         |
| 10 | Compositional dependence of epitaxial Ti <sub>1-x</sub> Si <sub>x</sub> C <sub>2</sub> MAX-phase thin films grown from a Ti <sub>3</sub> SiC <sub>2</sub> compound target. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, . | 0.9 | 8         |
| 11 | Vibrational Effects in X-ray Absorption Spectra of Two-Dimensional Layered Materials. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9688-9692.   | 1.5 | 14        |
| 12 | Electronic structure of Ta films from X-ray photoelectron spectroscopy and first-principles calculations. <i>Applied Surface Science</i> , 2019, 470, 607-612.   | 3.1 | 20        |
| 13 | Chemical bonding in epitaxial ZrB <sub>2</sub> studied by X-ray spectroscopy. <i>Thin Solid Films</i> , 2018, 649, 89-96.  | 0.8 | 20        |
| 14 | Chemical bonding in carbide MXene nanosheets. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 224, 27-32.  | 0.8 | 64        |
| 15 | Polarization-dependent resonant inelastic X-ray scattering study at the Cu L and O K -edges of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 224, 38-44.                                   | 0.8 | 3         |
| 16 | Chemical bonding and electronic-structure in MAX phases as viewed by X-ray spectroscopy and density functional theory. <i>Thin Solid Films</i> , 2017, 621, 108-130.   | 0.8 | 177       |
| 17 | Bonding Structures of ZrH <sub>x</sub> Thin Films by X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25750-25758.  | 1.5 | 16        |

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|----|---|-----|-----------|
| 19 | Electronic properties and bonding in $ZrH_x$ thin films investigated by valence-band x-ray photoelectron spectroscopy. <i>Physical Review B</i> , 2017, 96, .   | 1.1 | 9         |
| 20 | Induced magnetism at the interfaces of a Fe/V superlattice investigated by resonant magnetic x-ray scattering. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 362-366.   | 1.0 | 8         |
| 21 | Structure and Bonding in Amorphous $Cr_xC_x$ Nanocomposite Thin Films: X-ray Absorption Spectra and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12890-12899.                                   | 1.5 | 21        |
| 22 | The origin of anisotropy and high density of states in the electronic structure of $Cr_2GeC$ by means of polarized soft x-ray spectroscopy and ab initio calculations. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 415501. | 0.7 | 9         |
| 23 | Structure and bonding in amorphous iron carbide thin films. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 045002.  | 0.7 | 71        |
| 24 | Crystallization characteristics and chemical bonding properties of nickel carbide thin film nanocomposites. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 415501.  | 0.7 | 104       |
| 25 | Strain sensitivity in the nitrogen 1 s NEXAFS spectra of gallium nitride. <i>Applied Surface Science</i> , 2014, 316, 232-236.  | 3.1 | 2         |
| 26 | Self-doping processes between planes and chains in the metal-to-superconductor transition of $YBa_2Cu_3O_{6.9}$ . <i>Scientific Reports</i> , 2014, 4, 7017.  | 1.6 | 38        |
| 27 | Electronic correlation effects in the $Cr_2GeC$ $Mn_{n+1}AX$ phase. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 035601.  | 0.7 | 34        |
| 28 | Electronic structure origin of the anisotropic thermopower of nanolaminated $Ti_3SiC_2$ determined by polarized x-ray spectroscopy and Seebeck measurements. <i>Physical Review B</i> , 2012, 85, .                                   | 1.1 | 31        |
| 29 | Electronic structure and chemical bonding of amorphous chromium carbide thin films. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 225004.  | 0.7 | 38        |
| 30 | Spectroscopic ellipsometry study on the dielectric function of bulk $Ti_2AlN$ , $Ti_2AlC$ , $Nb_2AlC$ , $(Ti_{0.5}Nb_{0.5})_2AlC$ , and $Ti_3GeC_2$ MAX-phases. <i>Journal of Applied Physics</i> , 2011, 109, .                      | 1.1 | 13        |
| 31 | Mapping the frontier electronic structures of triphenylamine based organic dyes at $TiO_2$ interfaces. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3534-3546.  | 1.3 | 10        |
| 32 | Electronic structure of GaN and Ga investigated by soft x-ray spectroscopy and first-principles methods. <i>Physical Review B</i> , 2010, 81, .   | 1.1 | 67        |
| 33 | Elastic properties and electrostructural correlations in ternary scandium-based cubic inverse perovskites: A first-principles study. <i>Physical Review B</i> , 2009, 79, .   | 1.1 | 87        |
| 34 | Electronic structure and chemical bonding of nanocrystalline-TiC/amorphous-C nanocomposites. <i>Physical Review B</i> , 2009, 80, .   | 1.1 | 62        |
| 35 | Electronic structure and chemical bonding anisotropy investigation of wurtzite AlN. <i>Physical Review B</i> , 2009, 80, .  | 1.1 | 28        |
| 36 | Electronic structure investigation of the cubic inverse perovskite $Sc_3Ti_2C_2$ . <i>Physical Review B</i> , 2008, 78, .   | 1.1 | 29        |

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|----|---|-----|-----------|
| 37 | Anisotropy in the electronic structure of $\text{GeC}$ . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a>  | 1.1 | 28        |
| 38 | Bonding mechanism in the nitrides $\text{TiAlN}$ , $\text{AlN}$ , and $\text{TiN}$ : An experimental and theoretical investigation. <i>Physical Review B</i> , 2007, 76, .  | 1.1 | 69        |
| 39 | Electronic Structure Investigation of MAX-Phases by Soft X-ray Emission Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1023, 1.   | 0.1 | 2         |
| 40 | Investigation of $\text{Ti}_2\text{AlC}$ and $\text{TiC}$ by soft x-ray emission spectroscopy. <i>Journal of Physics: Conference Series</i> , 2007, 61, 760-764.  | 0.3 | 4         |
| 41 | Specific production of very long-lived core-excited sulfur atoms by $2p\pi^*1\tilde{f}^*$ excitation of the OCS molecule followed by ultrafast dissociation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, L269-L275.                                | 0.6 | 15        |
| 42 | Uranium oxides investigated by X-ray absorption and emission spectroscopies. <i>Applied Surface Science</i> , 2006, 252, 5615-5618.   | 3.1 | 36        |
| 43 | DudaetÅal.Reply:. <i>Physical Review Letters</i> , 2006, 97, .  | 2.9 | 0         |
| 44 | Electronic structure and chemical bonding in $\text{Ti}_4\text{SiC}_3$ investigated by soft x-ray emission spectroscopy and first-principles theory. <i>Physical Review B</i> , 2006, 74, .   | 1.1 | 40        |
| 45 | Electronic structure and chemical bonding in $\text{Ti}_2\text{AlC}$ investigated by soft x-ray emission spectroscopy. <i>Physical Review B</i> , 2006, 74, .   | 1.1 | 59        |
| 46 | Large magnetic circular dichroism in resonant inelastic x-ray scattering at the MnL-edge of Mn-Zn ferrite. <i>Physical Review B</i> , 2006, 74, .   | 1.1 | 21        |
| 47 | Resonant Inelastic X-Ray Scattering at the OxygenKResonance of NiO: Nonlocal Charge Transfer and Double-Singlet Excitations. <i>Physical Review Letters</i> , 2006, 96, 067402.   | 2.9 | 47        |
| 48 | Resonant X-ray emission and X-ray absorption spectra of 3d metals in $\text{Co}_2\text{MnZ}$ (Z = Ga, Sn, Sb) Heusler alloys as an element-selective probe of spin character of valence band. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 765-769. | 0.8 | 9         |
| 49 | Electronic structure investigation of $\text{Ti}_3\text{AlC}_2$ , $\text{Ti}_3\text{SiC}_2$ , and $\text{Ti}_3\text{GeC}_2$ by soft x-ray emission spectroscopy. <i>Physical Review B</i> , 2005, 72, .   | 1.1 | 59        |
| 50 | Determination of the refractive index at soft X-ray resonances. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 137-140, 519-522.   | 0.8 | 8         |
| 51 | Spin transition in $\text{LaCoO}_3$ investigated by resonant soft X-ray emission spectroscopy. <i>Europhysics Letters</i> , 2004, 68, 289-295.  | 0.7 | 28        |
| 52 | X-ray fluorescence spectra of metals excited below threshold. <i>Physical Review B</i> , 2003, 68, .  | 1.1 | 11        |
| 53 | Electronic structure investigation of $\text{CoO}$ by means of soft x-ray scattering. <i>Physical Review B</i> , 2002, 65, .  | 1.1 | 67        |
| 54 | Resonant soft x-ray Raman scattering of NiO. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 3669-3676.  | 0.7 | 29        |

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|----|---|-----|-----------|
| 55 | Valence excitations observed in resonant soft X-ray emission spectra of $K_2Ni(CN)_4 \cdot H_2O$ at the Ni 2p edge. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 909-913. | 0.8 | 3         |
| 56 | Spectroscopic observation of polaron-lattice band structure in the conducting polymer polyaniline. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 3907-3912.  | 0.7 | 8         |
| 57 | Probing surface states of Cu/Ni thin films using x-ray absorption spectroscopy. <i>Physical Review B</i> , 2001, 63, .  | 1.1 | 9         |
| 58 | Electronic-structure investigation of $CeB_6$ by means of soft-x-ray scattering. <i>Physical Review B</i> , 2001, 63, .   | 1.1 | 25        |
| 59 | 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        |
| 60 | Observation of short- and long-range hybridization of a buried Cu monolayer in Ni. <i>Physical Review B</i> , 2000, 62, R16239-R16242.  | 1.1 | 7         |
| 61 | Angular-dependent resonant-photoemission processes at the 2p thresholds in nickel metal. <i>Physical Review B</i> , 1999, 60, 2436-2440.  | 1.1 | 10        |
| 62 | Competition between decay and dissociation of core-excited carbonyl sulfide studied by x-ray scattering. <i>Physical Review A</i> , 1999, 59, 4281-4287.  | 1.0 | 31        |
| 63 | The electronic structure of polyaniline and doped phases studied by soft x-ray absorption and emission spectroscopies. <i>Journal of Chemical Physics</i> , 1999, 111, 4756-4761.                           | 1.2 | 36        |
| 64 | Resonant inelastic soft-X-ray scattering at the 4d edge of Ce-based heavy-fermion materials. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 101-103, 783-786.                        | 0.8 | 10        |
| 65 | Resonant inelastic soft X-ray scattering spectra at the nitrogen and carbon K-edges of poly(pyridine-2,5-diyl). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 101-103, 573-578.     | 0.8 | 10        |
| 66 | The electronic structure of poly(pyridine-2,5-diyl) investigated by soft X-ray absorption and emission spectroscopies. <i>Chemical Physics</i> , 1998, 237, 295-304.  | 0.9 | 20        |
| 67 | Resonant Auger spectroscopy at the $L_{2,3}$ shake-up thresholds as a probe of electron correlation effects in nickel. <i>Physical Review B</i> , 1998, 58, 3677-3681.                                      | 1.1 | 26        |
| 68 | Resonant and nonresonant x-ray scattering spectra of some poly(phenylenevinylene)s. <i>Journal of Chemical Physics</i> , 1998, 108, 5990-5996.  | 1.2 | 29        |
| 69 | Resonant inelastic soft-x-ray scattering from valence-band excitations in $d_0$ compounds. <i>Physical Review B</i> , 1997, 55, 4242-4249.  | 1.1 | 50        |
| 70 | Resonant Photoemission at the 2p Edges of Ni: Resonant Raman and Interference Effects. <i>Physical Review Letters</i> , 1997, 78, 967-970.  | 2.9 | 114       |
| 71 | Energy dependence of $L_{2,3}$ satellites using synchrotron excited x-ray-emission spectroscopy. <i>Physical Review B</i> , 1997, 56, 12238-12242.  | 1.1 | 46        |
| 72 | Coherent and incoherent processes in resonant photoemission. <i>Applied Physics A: Materials Science and Processing</i> , 1997, 65, 159-167.  | 1.1 | 49        |

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|----|--|-----|-----------|
| 73 | Low-energy-dexcitations in MnO studied by resonant x-ray fluorescence spectroscopy. Physical Review B, 1996, 54, 4405-4408.        | 1.1 | 139       |
| 74 | 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        |
| 75 | Max-Phases Investigated by Soft X-Ray Emission Spectroscopy. Ceramic Engineering and Science Proceedings, 0, , 325-329.            | 0.1 | 1         |