Wen-Zhi Xiao

List of Publications by Year
in descending order

42 papers	737 citations	471509 17 h-index	580821 25 g-index
42 all docs	42 docs citations	42 times ranked	955 citing authors

#	Article	IF	Citations
1	Large exciton binding energy, superior mechanical flexibility, and ultra-low lattice thermal conductivity in Bil₃ monolayer. Journal of Physics Condensed Matter, 2022, 34, 055302.	1.8	0
2	Newtype two-dimensional Cr2O3 monolayer with half-metallicity, high curie temperature, and magnetic anisotropy. Journal of Magnetism and Magnetic Materials, 2022, 543, 168657.	2.3	6
3	Two-dimensional hexagonal LaOF with ultrawide bandgap, large exciton energy, and low lattice thermal conductivity. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 140, 115195.	2.7	1
4	First-principle study on the stability, mechanical, electronic, and optical properties of two-dimensional scandium oxyhalides. Materials Chemistry and Physics, 2022, 287, 126306.	4.0	3
5	Two-dimensional Al2O3 with ultrawide bandgap and large exciton binding energy for solar-blind ultraviolet photodetectors. Computational Materials Science, 2021, 200, 110775.	3.0	8
6	Electronic structures and magnetic properties in transition metal adsorbed gt-C3N4 monolayer. Journal of Magnetism and Magnetic Materials, 2020, 493, 165745.	2.3	5
7	Two-dimensional H-TiO2/MoS2(WS2) van der Waals heterostructures for visible-light photocatalysis and energy conversion. Applied Surface Science, 2020, 504, 144425.	6.1	48
8	Magnetic properties in Nb/Tc adsorbed gt-C3N4 monolayer. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 116, 113753.	2.7	2
9	Half-metallicity and enhanced Curie temperature of Ti-embedded CrI3 monolayer. Materials Today Communications, 2020, 25, 101438.	1.9	5
10	Ferromagnetism and controllable half-metallicity of two-dimensional hexagonal CrOX (XÂ=ÂF, Cl, Br) monolayers. Journal of Magnetism and Magnetic Materials, 2020, 515, 167310.	2.3	11
11	Two-dimensional hexagonal chromium chalco-halides with large vertical piezoelectricity, high-temperature ferromagnetism, and high magnetic anisotropy. Physical Chemistry Chemical Physics, 2020, 22, 14503-14513.	2.8	32
12	Elasticity, piezoelectricity, and mobility in two-dimensional BiTeI from a first-principles study. Journal Physics D: Applied Physics, 2020, 53, 245301.	2.8	13
13	Magnetism and ferroelectricity in BiFeO3 doped with Ga at Fe sites. Journal of Alloys and Compounds, 2019, 797, 117-121.	5.5	13
14	Oxygenationâ€Induced Twoâ€Dimensional Topological Insulators in Antimony Arsenide. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900146.	2.4	1
15	New two-dimensional V-V binary compounds with a honeycomb-like structure: a first-principles study. Materials Research Express, 2018, 5, 035903.	1.6	34
16	Electronic and magnetic properties of SnS2 monolayer doped with non-magnetic elements. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 99, 182-188.	2.7	9
17	Stability and electronic structure of two-dimensional arsenic phosphide monolayer. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 228, 206-212.	3.5	21
18	Theoretical discovery of novel two-dimensional V^A-N binary compounds with auxiticity. Physical Chemistry Chemical Physics, 2018, 20, 22027-22037.	2.8	52

#	Article	IF	Citations
19	Electronic and magnetic properties of SnS 2 monolayer doped with 4 d transition metals. Journal of Magnetism and Magnetic Materials, 2017, 438, 152-162.	2.3	35
20	Magnetic properties in AlN nanosheet doped with alkali metals: A first-principles study. Physica Status Solidi (B): Basic Research, 2016, 253, 1816-1823.	1.5	12
21	Magnetic properties in BiFeO₃ doped with nonâ€metallic element: Firstâ€principles investigation. Physica Status Solidi (B): Basic Research, 2016, 253, 279-283.	1.5	10
22	A first-principles study of the SnO2 monolayer with hexagonal structure. Journal of Chemical Physics, 2016, 145, 174702.	3.0	34
23	Nitrogen-induced magnetism in stannates from first-principles calculations. International Journal of Modern Physics B, 2016, 30, 1650236.	2.0	1
24	Half-metallic and magnetic properties of AlN nanosheets doped with nonmagnetic metals: A first-principles study. Computational Materials Science, 2016, 124, 98-105.	3.0	14
25	Electronic and magnetic properties in Mnâ€doped IIIAâ€nitride monolayers. Physica Status Solidi (B): Basic Research, 2016, 253, 2001-2008.	1.5	8
26	Magnetic properties in BiFeO3 doped with Cu and Zn first-principles investigation. Journal of Alloys and Compounds, 2016, 674, 463-469.	5.5	17
27	Half-metallic and magnetic properties in nonmagnetic element embedded graphitic carbon nitride sheets. Physical Chemistry Chemical Physics, 2015, 17, 22136-22143.	2.8	25
28	Ab initio study of magnetism in nonmagnetic metal substituted monolayer MoS2. Solid State Communications, 2015, 220, 67-71.	1.9	21
29	Electronic structures and magnetic properties in nonmetallic element substituted MoS2 monolayer. Computational Materials Science, 2015, 107, 72-78.	3.0	55
30	Electronic structures and magnetic properties in Cu-doped two-dimensional dichalcogenides. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 73, 69-75.	2.7	33
31	Magnetic properties in a IIIA-nitride monolayer doped with Cu: a density functional theory investigation. RSC Advances, 2015, 5, 82357-82362.	3.6	10
32	Magnetic properties in CdS monolayer doped with first-row elements: A density functional theory investigation. Physica Status Solidi (B): Basic Research, 2014, 251, 1257-1264.	1.5	19
33	Half-metallicity in carbon-substituted CdS monolayer. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 59, 230-234.	2.7	8
34	Unexpected magnetic properties in carbon-doped SnO2 from first-principles calculation. Computational Materials Science, 2014, 83, 5-11.	3.0	26
35	Magnetism in undoped ZnS studied from density functional theory. Journal of Applied Physics, 2014, 115, .	2.5	34
36	First-principles insight into the surface magnetism of Cu-doped SnO₂(110) thin film. RSC Advances, 2014, 4, 39860.	3.6	8

#	Article	IF	Citations
37	First principles study on magnetic properties in ZnS doped with palladium. European Physical Journal B, 2013, 86, 1.	1.5	18
38	First-principles calculations of electronic and magnetic properties in semi-fluorinated CdS sheet. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3402-3406.	2.1	12
39	Ferromagnetic coupling in Mgâ€doped passivated AlN nanowires: A firstâ€principles study. Physica Status Solidi (B): Basic Research, 2012, 249, 185-189.	1.5	10
40	Magnetic properties in semifluorinated GaN sheet from first principles calculations. Physica Status Solidi (B): Basic Research, 2012, 249, 1465-1469.	1.5	10
41	Ferromagnetic and metallic properties of the semihydrogenated GaN sheet. Physica Status Solidi (B): Basic Research, 2011, 248, 1442-1445.	1.5	27
42	Firstâ€principles study of magnetic properties in Agâ€doped SnO₂. Physica Status Solidi (B): Basic Research, 2011, 248, 1961-1966.	1.5	26