

Wen-Zhi Xiao

List of Publications by Year in descending order

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papers

737
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471509

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42
all docs

42
docs citations

42
times ranked

955
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic structures and magnetic properties in nonmetallic element substituted MoS ₂ monolayer. Computational Materials Science, 2015, 107, 72-78.	3.0	55
2	Theoretical discovery of novel two-dimensional V ^A -N binary compounds with auxiticity. Physical Chemistry Chemical Physics, 2018, 20, 22027-22037.	2.8	52
3	Two-dimensional H-TiO ₂ /MoS ₂ (WS ₂) van der Waals heterostructures for visible-light photocatalysis and energy conversion. Applied Surface Science, 2020, 504, 144425.	6.1	48
4	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
5	Magnetism in undoped ZnS studied from density functional theory. Journal of Applied Physics, 2014, 115, .	2.5	34
6	A first-principles study of the SnO ₂ monolayer with hexagonal structure. Journal of Chemical Physics, 2016, 145, 174702.	3.0	34
7	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
8	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
9	Two-dimensional hexagonal chromium chalcogenides with large vertical piezoelectricity, high-temperature ferromagnetism, and high magnetic anisotropy. Physical Chemistry Chemical Physics, 2020, 22, 14503-14513.	2.8	32
10	Ferromagnetic and metallic properties of the semihydrogenated GaN sheet. Physica Status Solidi (B): Basic Research, 2011, 248, 1442-1445.	1.5	27
11	First-principles study of magnetic properties in Ag-doped SnO ₂ . Physica Status Solidi (B): Basic Research, 2011, 248, 1961-1966.	1.5	26
12	Unexpected magnetic properties in carbon-doped SnO ₂ from first-principles calculation. Computational Materials Science, 2014, 83, 5-11.	3.0	26
13	Half-metallic and magnetic properties in nonmagnetic element embedded graphitic carbon nitride sheets. Physical Chemistry Chemical Physics, 2015, 17, 22136-22143.	2.8	25
14	Ab initio study of magnetism in nonmagnetic metal substituted monolayer MoS ₂ . Solid State Communications, 2015, 220, 67-71.	1.9	21
15	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
16	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
17	First principles study on magnetic properties in ZnS doped with palladium. European Physical Journal B, 2013, 86, 1.	1.5	18
18	Magnetic properties in BiFeO ₃ doped with Cu and Zn first-principles investigation. Journal of Alloys and Compounds, 2016, 674, 463-469.	5.5	17

#	ARTICLE	IF	CITATIONS
19	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
20	Magnetism and ferroelectricity in BiFeO ₃ doped with Ga at Fe sites. Journal of Alloys and Compounds, 2019, 797, 117-121.	5.5	13
21	Elasticity, piezoelectricity, and mobility in two-dimensional BiTeI from a first-principles study. Journal Physics D: Applied Physics, 2020, 53, 245301.	2.8	13
22	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
23	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
24	Ferromagnetism and controllable half-metallicity of two-dimensional hexagonal CrOX (X = F, Cl, Br) monolayers. Journal of Magnetism and Magnetic Materials, 2020, 515, 167310.	2.3	11
25	Ferromagnetic coupling in Mg-doped passivated AlN nanowires: A first-principles study. Physica Status Solidi (B): Basic Research, 2012, 249, 185-189.	1.5	10
26	Magnetic properties in semifluorinated GaN sheet from first principles calculations. Physica Status Solidi (B): Basic Research, 2012, 249, 1465-1469.	1.5	10
27	Magnetic properties in a IIIA-nitride monolayer doped with Cu: a density functional theory investigation. RSC Advances, 2015, 5, 82357-82362.	3.6	10
28	Magnetic properties in BiFeO ₃ doped with non-metallic element: First-principles investigation. Physica Status Solidi (B): Basic Research, 2016, 253, 279-283.	1.5	10
29	Electronic and magnetic properties of SnS ₂ monolayer doped with non-magnetic elements. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 99, 182-188.	2.7	9
30	Half-metallicity in carbon-substituted CdS monolayer. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 59, 230-234.	2.7	8
31	First-principles insight into the surface magnetism of Cu-doped SnO ₂ (110) thin film. RSC Advances, 2014, 4, 39860.	3.6	8
32	Electronic and magnetic properties in Mn-doped IIIA-nitride monolayers. Physica Status Solidi (B): Basic Research, 2016, 253, 2001-2008.	1.5	8
33	Two-dimensional Al ₂ O ₃ with ultrawide bandgap and large exciton binding energy for solar-blind ultraviolet photodetectors. Computational Materials Science, 2021, 200, 110775.	3.0	8
34	Newtype two-dimensional Cr ₂ O ₃ monolayer with half-metallicity, high curie temperature, and magnetic anisotropy. Journal of Magnetism and Magnetic Materials, 2022, 543, 168657.	2.3	6
35	Electronic structures and magnetic properties in transition metal adsorbed g-C ₃ N ₄ monolayer. Journal of Magnetism and Magnetic Materials, 2020, 493, 165745.	2.3	5
36	Half-metallicity and enhanced Curie temperature of Ti-embedded CrI ₃ monolayer. Materials Today Communications, 2020, 25, 101438.	1.9	5

#	ARTICLE	IF	CITATIONS
37	First-principle study on the stability, mechanical, electronic, and optical properties of two-dimensional scandium oxyhalides. <i>Materials Chemistry and Physics</i> , 2022, 287, 126306.	4.0	3
38	Magnetic properties in Nb/Tc adsorbed $\text{g-C}_3\text{N}_4$ monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 116, 113753.	2.7	2
39	Nitrogen-induced magnetism in stannates from first-principles calculations. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650236.	2.0	1
40	Oxygenation-induced Two-Dimensional Topological Insulators in Antimony Arsenide. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900146.	2.4	1
41	Two-dimensional hexagonal LaOF with ultrawide bandgap, large exciton energy, and low lattice thermal conductivity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 140, 115195.	2.7	1
42	Large exciton binding energy, superior mechanical flexibility, and ultra-low lattice thermal conductivity in BiI_3 monolayer. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 055302.	1.8	0