Jian-Min Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8019005/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Calculation of the surface energy of FCC metals with modified embedded-atom method. Applied Surface Science, 2004, 229, 34-42.	6.1	267
2	The structural, electronic and magnetic properties of a novel quaternary Heusler alloy TiZrCoSn. Journal of Physics and Chemistry of Solids, 2017, 105, 9-15.	4.0	42
3	The structural, electronic, magnetic and mechanical properties of quaternary Heusler alloys ZrTiCrZ(Z  =  Al, Ga, In, Si, Ge, Sn): a first-principles study. Journal Physics D: Applied Physics, 20 255002.	16,849,	35
4	Electronic structures and magnetic properties of the transition-metal atoms (Mn, Fe, Co and Ni) doped WS2: A first-principles study. Superlattices and Microstructures, 2016, 98, 148-157.	3.1	28
5	The structure, electronic, magnetic and optical properties of the Mn doped and Mn-X (XÂ=ÂF, Cl, Br, I and) Tj ETQ 138-145.	q1 1 0.78 5.5	4314 rgBT /(28
6	Effects of 5d transition metals doping on the structural, electronic and magnetic properties of monolayer SnS2. Thin Solid Films, 2020, 705, 138045.	1.8	21
7	Modulating the Band Cap of the FeS ₂ by O and Se Doping. Journal of Physical Chemistry C, 2017, 121, 19334-19340.	3.1	18
8	Modulating the electronic, magnetic and optical properties of 1T-SnSe2 monolayer by defects: An ab initio study. Superlattices and Microstructures, 2020, 145, 106621.	3.1	17
9	The electronic, magnetic and optical properties of single-layer CrS2 with vacancy defects. Journal of Magnetism and Magnetic Materials, 2019, 487, 165300.	2.3	16
10	Thermodynamic stability, magnetism and half-metallicity of various (100) surfaces of Heusler alloy Ti2FeSn. Materials Chemistry and Physics, 2017, 192, 253-259.	4.0	15
11	First-principles study of transition-metal atoms adsorption on GaN nanotube. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 22-27.	2.7	14
12	First-principle study of single TM atoms X (X=Fe, Ru or Os) doped monolayer WS2 systems. Superlattices and Microstructures, 2018, 117, 155-162.	3.1	14
13	First-principles study of the half-metallic and magnetic properties for new yttrium-based full-Heusler alloys Y2CrZ (Z = Al, Ga, In). Solid State Communications, 2017, 264, 19-25.	1.9	13
14	Preserving the half-metallicity at the quaternary Heusler CoFeCrAl (001)-oriented thin films: A first-principles study. Materials Chemistry and Physics, 2020, 240, 122262.	4.0	12
15	Electronic, magnetic and optical properties of blue phosphorene doped with Y, Zr, Nb and Mo: A first-principles study. Thin Solid Films, 2021, 720, 138523.	1.8	12
16	The structural, electronic, magnetic and elastic properties of the binary Heusler alloys Mn ₂ Z (Z  =  As, Sb, Bi): a first-principles study. Materials Research Express, 2017, 4	4, ¹ 116501	. 11
17	First-principles prediction of the quaternary half-metallic ferromagnets TiZrIrZ (Z = Al, Ga or In) for spintronics applications. Thin Solid Films, 2019, 690, 137564.	1.8	11
18	Theoretical study on the electronic structure, optical and photocatalytic properties of type-II As/CdO van der Waals heterostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134,	2.7	11

van der Waals héterostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114888. 18 2.7

#	Article	IF	CITATIONS
19	The structural, electronic, magnetic and elastic properties of Ge doped half-Heusler compounds Mn2GexAs1Ⱂx (x = 0.25, 0.50, 0.75, 1.00). Journal of Magnetism and Magnetic Materials, 2018, 460, 46	1-47 <mark>0.</mark> 3	10
20	Structural, electronic, magnetic, and optical properties of monolayer WS2 doped with Co-X6 (X = S, N,) T	ETQq0 0	0 rgBT /Overlo
21	Firstâ€Principles Predictions on the Effects of Pb Doping on the Structural, Electronic, Magnetic, and Mechanical Properties of the TiZrCoTl _{1â[~]<i>x</i>} Pb <i>_x</i> (<i>x</i> = 0.0 1800566.	00,) Tj Etq 1.5	q1 1.0.784314

	1800566.		
22	Effects of the vacancy and doping on the electronic and magnetic characteristics of ZrSe2 monolayer: A first-principles investigation. Thin Solid Films, 2021, 732, 138790.	1.8	10
23	First-principles investigation on electronic structure, magnetic states and optical properties of Mn-doped SnS2 monolayer via strain engineering. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114842.	2.7	10
24	First-principles study on the magnetic and half-metallic properties of the Heusler alloy Ti 2 CoSn (110) surface. Surface Science, 2016, 644, 109-112.	1.9	9
25	The structural, electronic, magnetic and optical properties of the half-metallic binary alloys ZCl 3 (Z=Be, Mg, Ca, Sr): A first-principles study. Superlattices and Microstructures, 2018, 118, 230-241.	3.1	9
26	Feasibility of band gap engineering of iron pyrite (FeS2) by codoping Os, Ru or Zn together with O. Materials Chemistry and Physics, 2020, 244, 122742.	4.0	9
27	Structural, electronic and magnetic properties in bulk and various (0 0 1) surfaces of X2CoIn (X =â€⊤Ii, Zr) Heusler alloy. Applied Surface Science, 2018, 457, 403-410.	6.1	8
28	The structural, electronic and magnetic properties of CoS 2 under pressure. Solid State Communications, 2018, 273, 60-65.	1.9	7
29	Magnetic and electronic properties of zigzag boron nitride nanoribbons with nonmetallic atom asymmetric passivation. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 108, 174-180.	2.7	7
30	Changing the Electronic and Magnetic Properties of Monolayer HfS 2 by Doping and Vacancy Defects: Insight from Firstâ€Principles Calculations. Physica Status Solidi (B): Basic Research, 2020, 257, 1900768.	1.5	7
31	Theoretical perspective on the electronic structure and optoelectronic properties of type-II SiC/CrS ₂ van der Waals heterostructure with high carrier mobilities. Journal of Physics Condensed Matter, 2021, 33, 215302.	1.8	7
32	The structural, magnetic, electronic and optical properties of the cluster Fe-X6 (X=S, N, O or F) doped monolayer WS2. Superlattices and Microstructures, 2018, 114, 274-283.	3.1	6
33	First-principles study on the structural, electronic, and magnetic properties in (001) and (110) surfaces of quaternary Heusler alloy TiZrCoAl. Materials Chemistry and Physics, 2019, 224, 93-99.	4.0	6
34	Tailoring the electronic and optical properties of ZrS2/ZrSe2 vdW heterostructure by strain engineering. Thin Solid Films, 2022, 755, 139332.	1.8	6
35	First-principles study on the magnetic and half-metallic properties in bulk and (001) surface of Ti2CoSn Heusler alloy. Thin Solid Films, 2016, 609, 19-24.	1.8	5

36The structural, electronic and magnetic properties of Colâ^'xFexS2. Materials Research Express, 2018, 5,
016507.1.65

#	Article	IF	CITATIONS
37	The effect of pressure on the structural, elastic, electronic, magnetic, and optical properties of Mo-doped ZnSe alloy. Journal of Magnetism and Magnetic Materials, 2019, 474, 14-24.	2.3	5

 $_{38}$ Improving the magnetic, electronic and optical properties of the monolayer WSe2 via Mn-X (XÂ=ÂO, S, Se) Tj ETQq $_{1.8}^{0.0}$ 0 rgBT₅/Overlock

39	Half-metallic properties of CoS ₂ , doped CoN _{0.25} S _{1.75} and CoP _{0.25} S _{1.75} . Materials Research Express, 2017, 4, 086306.	1.6	4
40	First-principles predictions of half-metallic, magnetic, and optical properties of the (001) surface of Ge doped half-Heusler alloys Mn2GexAs1-x (x = 0.00, 0.25, 0.50, 0.75, and 1.00). Thin Solid Films, 2019, 679, 99-109.	, 1.8	4
41	Half-metallic, Magnetic, and Optical Properties for the (001) Surface of Binary Heusler Alloy MgCl3. Journal of Electronic Materials, 2019, 48, 2563-2571.	2.2	4
42	The structure, electronic, magnetic and optical properties of the Co-X (X = B, C, N, O or F) codoped single-layer WS2. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114917.	2.7	4
43	Properties of hydrogen doped Cu nanowires and nanocontacts: a density-functional theory study. Materials Research Express, 2017, 4, 095010.	1.6	3
44	First-principles study on the structural, electronic, and magnetic properties of bulk and (001) surface of RuS2. Journal of Physics and Chemistry of Solids, 2019, 129, 227-233.	4.0	2
45	Bandgap engineering of the (001) oriented thin-films of the Heusler alloys Co2‒xFexCrAl (x=0.00, 0.25,) Tj ETQq	110.784 1.8	314 rgBT
46	Stable half-metallicity in the (001)-oriented thin films of Co-doped full-Heusler alloys Ti ₂ Fe _{1â~`<i>x</i>} Co _{<i>x</i>} Sn (<i>x</i> =0.00, 0.25, 0.50, 0.75 or) Tj ETC	Q д0 0 0 гg	BT /Overlo
47	Effects of the Tc, Ru, Rh and Cd substitution doping on the structural, electronic, magnetic and optical properties of blue P monolayer. Thin Solid Films, 2022, 756, 139386.	1.8	2
48	Ferroelectrically mediated optical absorption in short-period (LaMnO3)2/BaTiO3/(SrMnO3)2 superlattices: A viewpoint from first-principles. Journal of Applied Physics, 2019, 125, 065301.	2.5	1
49	Theoretical study of half-metallicity in the bulk and (001) oriented thin-films of the CoMn1-xFexCrAl and CoMn1-xCoxCrAl (x=0.00, 0.25, 0.50, 0.75 or 1.00) Heusler alloys. Materials Chemistry and Physics, 2020, 253, 123297.	4.0	1
50	First principles study of the structural, electronic, magnetic and optical properties of the Fe doped CoS2 thin films. Thin Solid Films, 2022, 751, 139228.	1.8	1
51	First-principles study of the structural and electronic properties of CoX0.25S1.75 (X = F, Cl, or Br). Journal of Physics and Chemistry of Solids, 2018, 123, 284-293.	4.0	0
52	The Structural, Electronic, and Magnetic Properties of Cobalt Disulfide Doped with Oxygen, Selenium, or Tellurium. Journal of Electronic Materials, 2019, 48, 483-493.	2.2	0