

Yan Zhang

List of Publications by Year in descending order

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papers

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253
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison study of the structural and mechanical properties of cubic, tetragonal, monoclinic, and three orthorhombic phases of ZrO ₂ . Journal of Alloys and Compounds, 2018, 749, 283-292.	5.5	46
2	Half-metallic ferromagnetic nature of the double perovskite Pb ₂ FeMoO ₆ from first-principle calculations. Journal of Physics and Chemistry of Solids, 2012, 73, 1116-1121.	4.0	34
3	The detailed geometrical and electronic structures of monoclinic zirconia. Journal of Physics and Chemistry of Solids, 2013, 74, 518-523.	4.0	24
4	Effective carrier separation in zinc oxide and boron phosphide van der Waals heterostructure. Applied Surface Science, 2021, 535, 147825.	6.1	22
5	The type-II PtSe ₂ /WS ₂ van der Waals heterostructure: A high efficiency water-splitting photocatalyst. Surface Science, 2022, 723, 122103.	1.9	18
6	Ab initio calculation of Co ₂ MnSi/semiconductor (SC, =GaAs, Ge) heterostructures. Thin Solid Films, 2011, 519, 4400-4408.	1.8	14
7	Structural, electronic and magnetic properties of the double perovskite Pb ₂ FeReO ₆ . Physica B: Condensed Matter, 2012, 407, 2617-2621.	2.7	14
8	Effects of the defects on the structural, electronic and magnetic properties of Sr ₂ FeMoO ₆ . Journal of Alloys and Compounds, 2015, 648, 374-381.	5.5	10
9	Structural, electronic and magnetic properties of GaN nanotubes filled with nickel nanowires. Computational and Theoretical Chemistry, 2011, 963, 18-23.	2.5	9
10	Studying the insulating characters of cubic ZrO ₂ slabs with nine terminations within three lower index Miller planes (001), (110) and (111). Microelectronic Engineering, 2019, 213, 77-85.	2.4	9
11	The crystal and electronic structures, dynamical stabilities and thermal properties, elastic constants and mechanical stabilities, Born effective charges and dielectric constants of a novel tetragonal ZrO ₂ phase: First-principles calculations. Journal of Physics and Chemistry of Solids, 2021, 154, 110046.	4.0	9
12	Orbital-decomposed electronic structures of cubic zirconia. Solid State Communications, 2012, 152, 1673-1677.	1.9	8
13	The detailed orbital-decomposed electronic structures of tetragonal ZrO ₂ . Physica B: Condensed Matter, 2013, 411, 126-130.	2.7	8
14	A comparison study of the Born effective charges and dielectric properties of the cubic, tetragonal, monoclinic, ortho-I, ortho-II and ortho-III phases of zirconia. Solid State Sciences, 2018, 81, 58-65.	3.2	8
15	The electronic structures, elastic constants, dielectric permittivity, phonon spectra, thermal properties and optical response of monolayer zirconium dioxide: A first-principles study. Thin Solid Films, 2021, 721, 138549.	1.8	7
16	General compliance transformation relations for all seven crystal systems. Science China: Physics, Mechanics and Astronomy, 2013, 56, 694-700.	5.1	6
17	The structural, electronic, elastic, dielectric, dynamical, thermal and optical properties of Janus ZrOS monolayer: A first-principles investigation. Solid State Communications, 2021, 327, 114207.	1.9	5
18	Effects of the in-plane uniaxial and biaxial strains on the structural and electronic properties of the monolayer ZrS ₂ : A first-principles investigation. Thin Solid Films, 2022, 755, 139343.	1.8	5

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19	The detailed crystal and electronic structures of the cotunnite-type ZrO ₂ . Solid State Communications, 2016, 239, 27-31.	1.9	3
20	The structural, electronic, and magnetic properties of the stoichiometric (001) surface of double perovskite $\text{Sr}_2\text{FeMoO}_6$. Surface and Interface Analysis, 2016, 48, 1040-1047.	1.8	3
21	Effects of the V and P doping on the electronic and magnetic properties of the monolayer ZrS ₂ . Thin Solid Films, 2021, 735, 138875.	1.8	3
22	Prediction of the terminations and Miller planes of the tetragonal zirconia thin films as a gate dielectric layer in integrated-circuit industry. Surface and Interface Analysis, 2019, 51, 774-782.	1.8	2
23	Structural, electronic, and magnetic properties of double perovskite $\text{Pb}_2\text{FeReO}_6$ thin films with (001) orientation and three possible terminations. Surface and Interface Analysis, 2017, 49, 960-966.	1.8	1