Yan Zhang

List of Publications by Year
in descending order

23 papers	268 citations	1040056 9 h-index	940533 16 g-index
23 all docs	23 docs citations	23 times ranked	253 citing authors

#	Article	IF	Citations
1	The type-II PtSe2/WS2 van der Waals heterostructure: A high efficiency water-splitting photocatalyst. Surface Science, 2022, 723, 122103.	1.9	18
2	Effects of the in-plane uniaxial and biaxial strains on the structural and electronic properties of the monolayer ZrS2: A first-principles investigation. Thin Solid Films, 2022, 755, 139343.	1.8	5
3	Effective carrier separation in zinc oxide and boron phosphide van der Waals heterostructure. Applied Surface Science, 2021, 535, 147825.	6.1	22
4	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
5	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
6	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 ZrO2 phase: First-principles calculations. Journal of Physics and Chemistry of Solids, 2021, 154, 110046.	4.0	9
7	Effects of the V and P doping on the electronic and magnetic properties of the monolayer ZrS2. Thin Solid Films, 2021, 735, 138875.	1.8	3
8	Studying the insulating characters of cubic ZrO2 slabs with nine terminations within three lower index Miller planes (001), (110) and (111). Microelectronic Engineering, 2019, 213, 77-85.	2.4	9
9	Prediction of the terminations and Miller planes of the tetragonal zirconia thin films as a gate dielectric layer in integratedâ€circuit industry. Surface and Interface Analysis, 2019, 51, 774-782.	1.8	2
10	A comparison study of the structural and mechanical properties of cubic, tetragonal, monoclinic, and three orthorhombic phases of ZrO2. Journal of Alloys and Compounds, 2018, 749, 283-292.	5.5	46
11	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
12	Structural, electronic, and magnetic properties of double perovskite Pb₂ FeReO₆ thin films with (001) orientation and three possible terminations. Surface and Interface Analysis, 2017, 49, 960-966.	1.8	1
13	The detailed crystal and electronic structures of the cotunnite-type ZrO2. Solid State Communications, 2016, 239, 27-31.	1.9	3
14	The structural, electronic, and magnetic properties of the stoichiometric (001) surface of double perovskite <scp>Sr₂FeMoO₆</scp>. Surface and Interface Analysis, 2016, 48, 1040-1047.	1.8	3
15	Effects of the defects on the structural, electronic and magnetic properties of Sr2FeMoO6. Journal of Alloys and Compounds, 2015, 648, 374-381.	5.5	10
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 detailed orbital-decomposed electronic structures of tetragonal ZrO2. Physica B: Condensed Matter, 2013, 411, 126-130.	2.7	8
18	The detailed geometrical and electronic structures of monoclinic zirconia. Journal of Physics and Chemistry of Solids, 2013, 74, 518-523.	4.0	24

#	Article	IF	Citations
19	Orbital-decomposed electronic structures of cubic zirconia. Solid State Communications, 2012, 152, 1673-1677.	1.9	8
20	Half-metallic ferromagnetic nature of the double perovskite Pb2FeMoO6 from first-principle calculations. Journal of Physics and Chemistry of Solids, 2012, 73, 1116-1121.	4.0	34
21	Structural, electronic and magnetic properties of the double perovskite Pb2FeReO6. Physica B: Condensed Matter, 2012, 407, 2617-2621.	2.7	14
22	Structural, electronic and magnetic properties of GaN nanotubes filled with nickel nanowires. Computational and Theoretical Chemistry, 2011, 963, 18-23.	2.5	9
23	Ab initio calculation of Co2MnSi/semiconductor (SC, =GaAs, Ge) heterostructures. Thin Solid Films, 2011, 519, 4400-4408.	1.8	14