

Wei-Bing Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

1,667
citations

21
h-index

40
g-index

59
ext. papers

1,971
ext. citations

4
avg, IF

4.98
L-index

#	Paper	IF	Citations
53	A Study of transition metal dichalcogenides/Chromium Trihalides vdW heterostructure based on band unfolding method. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022 ,	0.6	
52	Strain and electric field dependent spin polarization in two-dimensional arsenene/CrI ₃ heterostructure. <i>Journal of Alloys and Compounds</i> , 2022 , 912, 165093	5.7	
51	Revealing the Underlying Mechanisms of the Stacking Order and Interlayer Magnetism of Bilayer CrBr ₃ . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7314-7320	3.8	4
50	Engineering the ligand states by surface functionalization: a new way to enhance the ferromagnetism of CrI. <i>Nanoscale</i> , 2021 , 13, 4821-4827	7.7	0
49	Electronic Structure and Magnetic Anisotropy of Single-Layer Rare-Earth Oxybromide. <i>ACS Omega</i> , 2020 , 5, 14194-14201	3.9	7
48	Electronic structures and strain responses of group VA/VA two-dimensional van der waals heterostructures. <i>Vacuum</i> , 2020 , 176, 109296	3.7	11
47	Tunable strain effects on the electronic structures and mobility properties of InP/InAs lateral heterostructure. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 505108	3	1
46	Spin-dependent Schottky barriers and vacancy-induced spin-selective ohmic contacts in magnetic vdW heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9460-9466	3.6	6
45	Achieving a direct band gap and high power conversion efficiency in an SbI/BiI type-II vdW heterostructure via interlayer compression and electric field application. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2619-2627	3.6	9
44	The enhanced ferromagnetism of single-layer CrX (X = Br and I) via van der Waals engineering. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 11949-11955	3.6	14
43	Structural, elastic and electronic properties of typical NdMgT ₄ (T = Co, Ni, Cu) alloys from ab initio calculation. <i>Physica B: Condensed Matter</i> , 2018 , 540, 38-42	2.8	2
42	AIB (A = As, Sb) Single Layers and Their vdW Heterostructure for Photocatalysis and Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7656-7663	3.8	25
41	Electronic structure, optical properties and band edges of layered MoO ₃ : A first-principles investigation. <i>Computational Materials Science</i> , 2017 , 130, 242-248	3.2	47
40	Tailoring Anisotropic Li-Ion Transport Tunnels on Orthogonally Arranged Li-Rich Layered Oxide Nanoplates Toward High-Performance Li-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 1670-1677	11.5	99
39	High-Mobility Transport Anisotropy in Few-Layer MoO and Its Origin. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1702-1709	9.5	36
38	Stability and carrier mobility of organic-inorganic hybrid perovskite CH ₃ NH ₃ PbI ₃ in two-dimensional limit. <i>Journal of Chemical Physics</i> , 2017 , 147, 164703	3.9	11
37	Theoretical perspective of energy harvesting properties of atomically thin BiI ₃ . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 19086-19094	13	41

36	Atomic-Scale Mechanism on Nucleation and Growth of MoC Nanoparticles Revealed by in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2016 , 16, 7875-7881	11.5	21
35	Direct TEM observations of growth mechanisms of two-dimensional MoS ₂ flakes. <i>Nature Communications</i> , 2016 , 7, 12206	17.4	147
34	Atomically thin binary VV compound semiconductor: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6581-6587	7.1	98
33	Bending rigidity of transition metal dichalcogenide monolayers from first-principles. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 185301	3	23
32	Tunable electronic properties of GeSe/phosphorene heterostructure from first-principles study. <i>Applied Physics Letters</i> , 2016 , 109, 103104	3.4	71
31	Helix-like structure formation of a semi-flexible chain confined in a cylinder channel. <i>Chinese Physics B</i> , 2016 , 25, 093601	1.2	1
30	Tuning metal-graphene interaction by non-metal intercalation: a case study of the graphene/oxygen/Ni (1 1 1) system. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 015308	3	7
29	Electronic structures and elastic properties of monolayer and bilayer transition metal dichalcogenides MX ₂ (M = Mo, W; X = O, S, Se, Te): A comparative first-principles study. <i>Chinese Physics B</i> , 2015 , 24, 097103	1.2	66
28	First-Principle Calculations of the MgYA ₄ (A = Co and Ni) Phase with AuBe ₅ -Type Structure. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015 , 28, 1326-1331	2.5	1
27	Robust intrinsic ferromagnetism and half semiconductivity in stable two-dimensional single-layer chromium trihalides. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12457-12468	7.1	388
26	The tunable electronic structure and mechanical properties of halogenated silicene: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3087-3094	7.1	47
25	Electronic structure and thermodynamic properties of millerite NiS from first principles: Complex fermi surface and large thermal expansion coefficient. <i>Computational Materials Science</i> , 2014 , 83, 412-417	3.2	12
24	First-principles study for stability and binding mechanism of graphene/Ni(111) interface: Role of vdW interaction. <i>Journal of Chemical Physics</i> , 2014 , 141, 044708	3.9	51
23	Tuning the crystal shape of materials by chemical potential: a combined theoretical and experimental study for NiSe ₂ . <i>RSC Advances</i> , 2014 , 4, 13395-13404	3.7	2
22	Equilibrium Crystal Shape of Ni from First Principles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21274-21280	3.8	40
21	Role of electronic correlation in high-low temperature phase transition of hexagonal nickel sulfide: a comparative density functional theory study with and without correction for on-site Coulomb interaction. <i>Journal of Chemical Physics</i> , 2013 , 138, 244703	3.9	10
20	A Comparative Density-Functional Theory Investigation of Oxygen Adsorption on Stepped Ni Surfaces 3(hkl) (111) [hkl=(111),(100),(110)]: Role of Terrace Orientation. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 074709	1.5	4
19	Elastic and electronic properties of a new MAX compound (Cr _{0.5} V _{0.5}) ₂ GeC from first-principles calculations. <i>Solid State Communications</i> , 2010 , 150, 49-53	1.6	16

18	Oxygen adsorption on stepped Pd(100) surfaces. <i>Surface Science</i> , 2010 , 604, 1813-1819	1.8	14
17	Surface adsorption phase diagram of O/Ni(110) system: An ab initio atomistic thermodynamics investigation. <i>Applied Physics Letters</i> , 2009 , 94, 091901	3.4	4
16	First-principles studies of the oxygen adsorption on unreconstructed and reconstructed Ni(1 1 0) surfaces. <i>Surface Science</i> , 2009 , 603, 1002-1009	1.8	12
15	Energetics and electronic properties of Mg ₇ TMH ₁₆ (TM=Sc, Ti, V, Y, Zr, Nb): An ab initio study. <i>Physica B: Condensed Matter</i> , 2009 , 404, 2234-2240	2.8	34
14	Stability of MgO(111) Polar Surface: Effect of the Environment. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3327-3333	3.8	21
13	Initial stage of Ag deposition on regular MgO(001) surface: A DFT study. <i>Computational Materials Science</i> , 2008 , 42, 43-49	3.2	15
12	Crystal structure of Mg ₃ Pd from first-principles calculations. <i>Transactions of Nonferrous Metals Society of China</i> , 2008 , 18, 416-420	3.3	10
11	Water Adsorption on a NiO(100) Surface: A GGA+U Study. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 452-457	3.8	36
10	Stability of the polar NiO(111) surface. <i>Journal of Chemical Physics</i> , 2008 , 128, 124703	3.9	33
9	Adsorption of oxygen atoms on the Mg ₃ Nd(001) surface. <i>Journal of Applied Physics</i> , 2008 , 104, 033516	2.5	
8	Electronic structure and Fermi surface character of LaNiPO from first principles. <i>Physical Review B</i> , 2008 , 77,	3.3	19
7	Stability and magnetism of vacancy in NiO: A GGA+U study. <i>European Physical Journal B</i> , 2008 , 64, 153-158	2	45
6	First-principles study of structural stabilities and electronic characteristics of Mg ₂ Al intermetallic compounds. <i>Computational Materials Science</i> , 2007 , 41, 78-85	3.2	40
5	Structural distortion of -structured MnO and FeO. <i>Solid State Communications</i> , 2007 , 142, 6-9	1.6	18
4	Pressure dependence of exchange interactions in NiO. <i>Physical Review B</i> , 2006 , 74,	3.3	34
3	Structural distortion and electronic properties of NiO under high pressure: an ab initio GGA+U study. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 9691-9701	1.8	8
2	Phase stability and structural distortion of NiO under high pressure. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, s52-s58	3.3	2
1	Adsorption of atomic S and C on Mg(0001) surface. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, s253-s256	3.3	1

