

Baozeng Zhou

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47
papers

563
citations

15
h-index

22
g-index

52
ext. papers

744
ext. citations

4.5
avg, IF

4.43
L-index

#	Paper	IF	Citations
47	Tunable interlayer coupling and Schottky barrier in graphene and Janus MoSSe heterostructures by applying an external field. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24109-24116	3.6	63
46	Room-temperature ferromagnetism in epitaxial Mg-doped SnO ₂ thin films. <i>Applied Physics Letters</i> , 2012 , 100, 182405	3.4	55
45	Hittorf's violet phosphorene as a promising candidate for optoelectronic and photocatalytic applications: first-principles characterization. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11967-11973 ^{3.6}	3.6	32
44	Boron-Doped Graphene Directly Grown on Boron-Doped Diamond for High-Voltage Aqueous Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1526-1536	6.1	30
43	Tunable gap opening and spin polarization of two dimensional graphene/hafnene van der Waals heterostructures. <i>Carbon</i> , 2017 , 120, 121-127	10.4	28
42	Triferroic Material and Electrical Control of Valley Degree of Freedom. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12675-12682	9.5	26
41	Density functional theory study of the structural, electronic and optical properties of C-doped anatase TiO ₂ (101) surface. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 1666-1670	2.3	24
40	Tunable valley splitting and an anomalous valley Hall effect in hole-doped WS by proximity coupling with a ferromagnetic MnO monolayer. <i>Nanoscale</i> , 2019 , 11, 13567-13575	7.7	23
39	Proximity effect induced spin filtering and gap opening in graphene by half-metallic monolayer Cr ₂ C ferromagnet. <i>Carbon</i> , 2018 , 132, 25-31	10.4	23
38	Ferromagnetic spin-order in p-type N-doped SnO ₂ films prepared by thermal oxidation of SnN _x . <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 362, 14-19	2.8	23
37	Heterostructure Engineering of Core-Shelled Sb@Sb O Encapsulated in 3D N-Doped Carbon Hollow-Spheres for Superior Sodium/Potassium Storage. <i>Small</i> , 2021 , 17, e2006824	11	23
36	In situ visualization and detection of surface potential variation of mono and multilayer MoS under different humidities using Kelvin probe force microscopy. <i>Nanotechnology</i> , 2017 , 28, 295705	3.4	22
35	Low consumption two-terminal artificial synapse based on transfer-free single-crystal MoS memristor. <i>Nanotechnology</i> , 2020 , 31, 265202	3.4	20
34	Tunable bandgap and ferromagnetism in sputtered epitaxial Sn _{1-x} Mg _x O ₂ thin films. <i>Applied Physics Letters</i> , 2012 , 101, 182406	3.4	18
33	Superior electronic structure of two-dimensional 3d transition metal dicarbides for applications in spintronics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4290-4299	7.1	15
32	Theoretical investigation of nonvolatile electrical control behavior by ferroelectric polarization switching in two-dimensional MnCl ₃ /CuInP ₂ S ₆ van der Waals heterostructures. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4534-4541	7.1	12
31	First-principles and Monte Carlo studies on the magnetic stability of half-metallic zinc-blende CaC and similar compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 378, 469-477	2.8	12

30	Effects of enhanced electronic correlation on magnetic properties of light non-metallic element (B, C, N, and O)-doped CuCl: A first-principles study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 3001-3005	2.3	9
29	Effects of vacancy and lattice distortion on ferromagnetism in sputtered epitaxial Sn _{1-x} KxO ₂ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 355, 230-234	2.8	9
28	Ferroelectric Rashba semiconductors, AgBiPX (X = S, Se and Te), with valley polarization: an avenue towards electric and nonvolatile control of spintronic devices. <i>Nanoscale</i> , 2020 , 12, 5533-5542	7.7	8
27	Effect of growth temperature on large surface area, ultrathin MoS ₂ nanofilms fabrication and photovoltaic efficiency. <i>Solar Energy</i> , 2018 , 159, 88-96	6.8	8
26	Correlation-induced metal-insulator transitions in d ₀ magnetic superlattices based on alkaline-earth monoxides: Insights from ab initio calculations. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 384, 33-39	2.8	8
25	Tuning electronic and magnetic properties of V-, Cr-, and Mn-doped PbS via strain engineering: A first-principles proposal. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018 , 228, 1-6	3.1	8
24	Strain-tunable magnetic anisotropy in two-dimensional Dirac half-metals: nickel trihalides.. <i>RSC Advances</i> , 2019 , 9, 35614-35623	3.7	7
23	Electronic properties, contact types and Rashba splitting of two-dimensional graphyne/WSeTe van der Waals heterostructures. <i>Journal of Alloys and Compounds</i> , 2021 , 875, 160048	5.7	7
22	Controllable synthesis of millimeter-size single crystal WS ₂ . <i>Applied Surface Science</i> , 2020 , 504, 144378	6.7	6
21	Half metallicity and magnetic stability of sp-electron superlattices in rock-salt structure: A first-principles study. <i>Solid State Communications</i> , 2014 , 192, 64-70	1.6	5
20	An sd hybridized transition-metal monolayer with a hexagonal lattice: reconstruction between the Dirac and kagome bands. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8046-8054	3.6	4
19	Prediction of two-dimensional d-block elemental materials with normal honeycomb, triangular-dodecagonal, and square-octagonal structures from first principles. <i>Applied Surface Science</i> , 2017 , 419, 484-496	6.7	4
18	Spin-gapless and half-metallic ferromagnetism in potassium and calcium doped GaN digital magnetic heterostructures for possible spintronic applications: insights from first principles. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	4
17	Effects of electronic modification and structural distortion on ferromagnetism in sputtered CeO ₂ films with isovalent Sn ₄₊ doping. <i>RSC Advances</i> , 2014 , 4, 63228-63233	3.7	4
16	Architected interfacial interlocking structure for enhancing mechanical properties of Al matrix composites reinforced with graphene nanosheets. <i>Carbon</i> , 2021 , 183, 685-701	10.4	4
15	Superior spin-polarized electronic structure in MoS/MnO heterostructures with an efficient hole injection. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10706-10715	3.6	3
14	First-principles study of sp-electron half-metallic superlattices in wurtzite structure. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 1076-1082	1.3	3
13	First-principles prediction of magnetic salts: Case study of NaCl bulk and (0 0 1) surface doped with light non-metallic 2 p -block elements. <i>Computational Materials Science</i> , 2017 , 132, 10-18	3.2	2

12	First-principles and molecular dynamics studies on structural, electronic, and magnetic characteristics of (CaC)1/(SiC)1 and (KC)1/(SiC)1 in wurtzite structure. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 1734-1742	1.3	2
11	Tailoring electronic structure of β -AlH ₃ to enhance spin polarization: Insights from density functional calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 108, 9-14	3.9	1
10	Ferromagnetic ordering and metallic-like conductivity in sputtered SnN _x films. <i>Journal of Alloys and Compounds</i> , 2014 , 604, 106-111	5.7	1
9	Controllable spin direction in nonmagnetic BX/MX ₂ (M = Mo or W; X = S, Se and Te) van der Waals heterostructures by switching between the Rashba splitting and valley polarization. <i>Journal of Materials Chemistry C</i> , 2021 , 10, 312-320	7.1	1
8	Tunable electronic structure and magnetic characteristics of two-dimensional graphyne/VI ₃ van der Waals heterostructures. <i>Superlattices and Microstructures</i> , 2021 , 160, 107081	2.8	1
7	Electric polarization related Dirac half-metallicity in Mn-trihalide Janus monolayers. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 26468-26477	3.6	1
6	Biaxial strain, electric field and interlayer distance-tailored electronic structure and magnetic properties of two-dimensional g-CN/Li-adsorbed CrGeTe van der Waals heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 6171-6181	3.6	1
5	Structure distortion related magnetic anisotropy in 5d transition-metal dimer adsorbed g-C ₃ N ₄ monolayers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 130, 114697	3	0
4	Prediction of high spin polarization and perpendicular magnetic anisotropy in two dimensional ferromagnetic Mn ₂ CXX ₂ (X=F, Cl, Br, I) Janus monolayers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 134, 114932	3	0
3	Conduction band-edge valley splitting in two-dimensional ferroelectric AgBiPS by magnetic doping: towards electron valley-polarized transport.. <i>RSC Advances</i> , 2022 , 12, 13765-13773	3.7	0
2	First-Principles Studies on d ₀ Magnetism in Zinc-Blende IV-IV Compounds-Based Short-Period Heterostructures (SiC)1/(KC)1, (GeC)1/(KC)1, (SiC)1/(CaC)1, and (GeC)1/(CaC)1. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 1619-1628	1.5	
1	Low-Operating-Voltage Resistive Memory Based on BiFeZn)O Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 231-234	1.3	