Baozeng Zhou

List of Publications by Year in descending order

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		471477	501174
51	907	17	28
papers	citations	h-index	g-index

52	52	52	1212
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tunable interlayer coupling and Schottky barrier in graphene and Janus MoSSe heterostructures by applying an external field. Physical Chemistry Chemical Physics, 2018, 20, 24109-24116.	2.8	86
2	Room-temperature ferromagnetism in epitaxial Mg-doped SnO2 thin films. Applied Physics Letters, 2012, 100, .	3.3	62
3	Triferroic Material and Electrical Control of Valley Degree of Freedom. ACS Applied Materials & Interfaces, 2019, 11, 12675-12682.	8.0	52
4	Tunable valley splitting and an anomalous valley Hall effect in hole-doped WS₂ by proximity coupling with a ferromagnetic MnO₂ monolayer. Nanoscale, 2019, 11, 13567-13575.	5.6	51
5	Boron-Doped Graphene Directly Grown on Boron-Doped Diamond for High-Voltage Aqueous Supercapacitors. ACS Applied Energy Materials, 2019, 2, 1526-1536.	5.1	49
6	Heterostructure Engineering of Coreâ€Shelled Sb@Sb₂O₃ Encapsulated in 3D Nâ€Doped Carbon Hollowâ€Spheres for Superior Sodium/Potassium Storage. Small, 2021, 17, e2006824.	10.0	49
7	Hittorf's violet phosphorene as a promising candidate for optoelectronic and photocatalytic applications: first-principles characterization. Physical Chemistry Chemical Physics, 2018, 20, 11967-11975.	2.8	45
8	Proximity effect induced spin filtering and gap opening in graphene by half-metallic monolayer Cr2C ferromagnet. Carbon, 2018, 132, 25-31.	10.3	39
9	In situvisualization and detection of surface potential variation of mono and multilayer MoS₂under different humidities using Kelvin probe force microscopy. Nanotechnology, 2017, 28, 295705.	2.6	33
10	Tunable gap opening and spin polarization of two dimensional graphene/hafnene van der Waals heterostructures. Carbon, 2017, 120, 121-127.	10.3	32
11	Low consumption two-terminal artificial synapse based on transfer-free single-crystal MoS₂ memristor. Nanotechnology, 2020, 31, 265202.	2.6	32
12	Theoretical investigation of nonvolatile electrical control behavior by ferroelectric polarization switching in two-dimensional MnCl₃/CuInP₂S₆ van der Waals heterostructures. Journal of Materials Chemistry C, 2020, 8, 4534-4541.	5.5	31
13	Architectured interfacial interlocking structure for enhancing mechanical properties of Al matrix composites reinforced with graphene nanosheets. Carbon, 2021, 183, 685-701.	10.3	30
14	Density functional theory study of the structural, electronic and optical properties of C-doped anatase TiO2 (101) surface. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1666-1670.	2.1	29
15	Ferromagnetic spin-order in p-type N-doped SnO2 films prepared by thermal oxidation of SnNx. Journal of Magnetism and Magnetic Materials, 2014, 362, 14-19.	2.3	24
16	Superior electronic structure of two-dimensional 3d transition metal dicarbides for applications in spintronics. Journal of Materials Chemistry C, 2018, 6, 4290-4299.	5.5	23
17	Tunable bandgap and ferromagnetism in sputtered epitaxial Sn1â^'xMgxO2 thin films. Applied Physics Letters, 2012, 101, .	3.3	19
18	Strain-tunable magnetic anisotropy in two-dimensional Dirac half-metals: nickel trihalides. RSC Advances, 2019, 9, 35614-35623.	3.6	19

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19	Controllable synthesis of millimeter-size single crystal WS2. Applied Surface Science, 2020, 504, 144378.	6.1	17
20	Electronic properties, contact types and Rashba splitting of two-dimensional graphyne/WSeTe van der Waals heterostructures. Journal of Alloys and Compounds, 2021, 875, 160048.	5.5	16
21	First-principles and Monte Carlo studies on the magnetic stability of half-metallic zinc-blende CaC and similar compounds. Journal of Magnetism and Magnetic Materials, 2015, 378, 469-477.	2.3	13
22	Effect of growth temperature on large surface area, ultrathin MoS2 nanofilms fabrication and photovoltaic efficiency. Solar Energy, 2018, 159, 88-96.	6.1	13
23	Ferroelectric Rashba semiconductors, AgBiP₂X₆ (X = S, Se and Te), with valley polarization: an avenue towards electric and nonvolatile control of spintronic devices. Nanoscale, 2020, 12, 5533-5542.	5.6	13
24	Tuning electronic and magnetic properties of V-, Cr-, and Mn-doped PbS via strain engineering: A first-principles proposal. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 228, 1-6.	3.5	12
25	Effects of vacancy and lattice distortion on ferromagnetism in sputtered epitaxial Sn1â^'xKxO2 films. Journal of Magnetism and Magnetic Materials, 2014, 355, 230-234.	2.3	9
26	Effects of enhanced electronic correlation on magnetic properties of light non-metallic element (B,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 State Physics, 2014, 378, 3001-3005.	2.1	9
27	Electric polarization related Dirac half-metallicity in Mn-trihalide Janus monolayers. Physical Chemistry Chemical Physics, 2020, 22, 26468-26477.	2.8	9
28	Correlation-induced metal-insulator transitions in d0 magnetic superlattices based on alkaline-earth monoxides: Insights from ab initio calculations. Journal of Magnetism and Magnetic Materials, 2015, 384, 33-39.	2.3	8
29	Prediction of high spin polarization and perpendicular magnetic anisotropy in two dimensional ferromagnetic Mn2CXXâ€™ (X, Xâ€²=F, Cl, Br, I) Janus monolayers. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114932.	2.7	7
30	Prediction of two-dimensional d-block elemental materials with normal honeycomb, triangular-dodecagonal, and square-octagonal structures from first principles. Applied Surface Science, 2017, 419, 484-496.	6.1	6
31	Tunable electronic structure and magnetic characteristics of two-dimensional graphyne/VI3 van der Waals heterostructures. Superlattices and Microstructures, 2021, 160, 107081.	3.1	6
32	Valley splitting and magnetic anisotropy in two-dimensional VI₃/MSe₂ (M = W,) Tj ETQq0 0 0 rgBT /Overlock	2.8	6
33	Two dimensional Janus Ti-trihalide monolayers with half-metallic characteristics, Mott insulator properties and tunable magnetic anisotropy. Journal of Materials Chemistry C, 2022, 10, 10616-10626.	5.5	6
34	Half metallicity and magnetic stability of sp-electron superlattices in rock-salt structure: A first-principles study. Solid State Communications, 2014, 192, 64-70.	1.9	5
35	An sd2hybridized transition-metal monolayer with a hexagonal lattice: reconstruction between the Dirac and kagome bands. Physical Chemistry Chemical Physics, 2017, 19, 8046-8054.	2.8	5
36	Biaxial strain, electric field and interlayer distance-tailored electronic structure and magnetic properties of two-dimensional g-C₃N₄/Li-adsorbed Cr₂Ge₂Te₆ van der Waals heterostructures. Physical Chemistry Chemical Physics, 2021, 23, 6171-6181.	2.8	5

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37	Effects of electronic modification and structural distortion on ferromagnetism in sputtered CeO₂films with isovalent Sn⁴⁺doping. RSC Advances, 2014, 4, 63228-63233.	3.6	4
38	Spin-gapless and half-metallic ferromagnetism in potassium and calcium Î´-doped GaN digital magnetic heterostructures for possible spintronic applications: insights from first principles. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	4
39	Superior spin-polarized electronic structure in MoS₂/MnO₂ heterostructures with an efficient hole injection. Physical Chemistry Chemical Physics, 2019, 21, 10706-10715.	2.8	4
40	Achieving an Ohmic contact in graphene-based van der Waals heterostructures by intrinsic defects and the inner polarized electric field of Janus AlGaSSe. New Journal of Chemistry, 2021, 45, 21178-21187.	2.8	4
41	Conduction band-edge valley splitting in two-dimensional ferroelectric AgBiP₂S₆ by magnetic doping: towards electron valley-polarized transport. RSC Advances, 2022, 12, 13765-13773.	3.6	4
42	Firstâ€principles study of spâ€electron halfâ€metallic superlattices in wurtzite structure. Physica Status Solidi (B): Basic Research, 2014, 251, 1076-1082.	1.5	3
43	Ferromagnetic ordering and metallic-like conductivity in sputtered SnNx films. Journal of Alloys and Compounds, 2014, 604, 106-111.	5.5	2
44	First-principles and molecular dynamics studies on structural, electronic, and magnetic characteristics of (CaC)1/(SiC)1and (KC)1/(SiC)1in wurtzite structure. Physica Status Solidi (B): Basic Research, 2016, 253, 1734-1742.	1.5	2
45	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. Computational Materials Science, 2017, 132, 10-18.	3.0	2
46	Tailoring electronic structure of Î± -AlH 3 to enhance spin polarization: Insights from density functional calculations. Journal of Physics and Chemistry of Solids, 2017, 108, 9-14.	4.0	2
47	Structure distortion related magnetic anisotropy in 5d transition-metal dimer adsorbed g-C3N4 monolayers. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 130, 114697.	2.7	2
48	Controllable spin direction in nonmagnetic BX/MX2 (M = Mo or W; X = S, Se and Te) van der Waals heterostructures by switching between the Rashba splitting and valley polarization. Journal of Materials Chemistry C, 2021, 10, 312-320.	5.5	2
49	Promoted photocarrier separation by dipole engineering in two-dimensional perovskite/C₂N van der Waals heterostructures. Physical Chemistry Chemical Physics, 2022, 24, 17348-17360.	2.8	2
50	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. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1619-1628.	1.8	0
51	and Nanotechnology, 2019, 19, 231-234.	0.9	0