

Bao-Bing Zheng

List of Publications by Year in descending order

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46
papers

835
citations

471061

17
h-index

525886

27
g-index

46
all docs

46
docs citations

46
times ranked

744
citing authors

#	ARTICLE	IF	CITATIONS
1	Symmetry-Protected Topological Triangular Weyl Complex. <i>Physical Review Letters</i> , 2020, 124, 105303.	2.9	78
2	Three-Dimensional Dirac Phonons with Inversion Symmetry. <i>Physical Review Letters</i> , 2021, 126, 185301.	2.9	58
3	CoSe ₂ modified Se-decorated CdS nanowire Schottky heterojunctions for highly efficient photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020, 389, 124431.	6.6	57
4	Ideal type-III nodal-ring phonons. <i>Physical Review B</i> , 2020, 101, .	1.1	53
5	Equilibrium Geometries, Stabilities, and Electronic Properties of the Bimetallic M ₂ -doped Au _n (M = Ag, Cu; n = 1~10) Clusters: Comparison with Pure Gold Clusters. <i>Journal of Physical Chemistry A</i> , 2011, 115, 569-576.	1.1	52
6	New Family of Two-Dimensional Ternary Photoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14457-14462.	4.0	35
7	Ideal Nodal Line Semimetal in a Two-Dimensional Boron Bilayer. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4977-4983.	1.5	35
8	Hourglass phonons jointly protected by symmorphic and nonsymmorphic symmetries. <i>Physical Review B</i> , 2021, 104, .	1.1	35
9	Two-Dimensional Li-Based Ternary Chalcogenides for Photocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6061-6066.	2.1	31
10	Three-terminal Weyl complex with double surface arcs in a cubic lattice. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	29
11	Three-dimensional quantum anomalous Hall effect in ferromagnetic insulators. <i>Physical Review B</i> , 2018, 98, .	1.1	25
12	Influences of carbon concentration on crystal structures and ideal strengths of B ₂ C _x O compounds in the B-C-O system. <i>Scientific Reports</i> , 2015, 5, 15481.	1.6	23
13	Intrinsic quantum anomalous Hall phase induced by proximity in the van der Waals heterostructure germanene/ Cr_2Te_3 . <i>Physical Review B</i> , 2020, 101, .	1.1	23
14	Electronic bonding analyses and mechanical strengths of incompressible tetragonal transition metal dinitrides TMN ₂ (TM = Ti, Zr, and Hf). <i>Scientific Reports</i> , 2016, 6, 36911.	1.6	22
15	Exploring the Mechanical Anisotropy and Ideal Strengths of Tetragonal B ₄ CO ₄ . <i>Materials</i> , 2017, 10, 128.	1.3	20
16	Oxidation-Induced Topological Phase Transition in Monolayer 1T-WTe ₂ . <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4783-4788.	2.1	19
17	Two-Dimensional Dirac Semimetals without Inversion Symmetry. <i>Physical Review Letters</i> , 2020, 125, 116402.	2.9	19
18	Ab initio calculation of the geometries, stabilities, and electronic properties for the bimetallic Be ₂ Au _n (n = 1~9) clusters: comparison with pure gold clusters. <i>Journal of Molecular Modeling</i> , 2012, 18, 275-283.	0.8	17

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19	Extremely High Mobilities in Two-Dimensional Group-VA Binary Compounds with Large Conversion Efficiency for Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27590-27596.	1.5	17
20	Strain-tunable out-of-plane polarization in two-dimensional materials. <i>Physical Review B</i> , 2020, 101, .	1.1	16
21	Floquet valley-polarized quantum anomalous Hall state in nonmagnetic heterobilayers. <i>Physical Review B</i> , 2022, 105, .	1.1	16
22	Symmetry-enforced nodal cage phonons in ThMn_2P_6 . <i>Physical Review B</i> , 2022, 105, .	1.1	16
23	Tunable ferromagnetic Weyl fermions from a hybrid nodal ring. <i>Npj Computational Materials</i> , 2019, 5, .	3.5	15
24	Robust Twin Pairs of Weyl Fermions in Ferromagnetic Oxides. <i>Physical Review Letters</i> , 2019, 122, 057205.	2.9	14
25	Photoinduced Floquet mixed-Weyl semimetallic phase in a carbon allotrope. <i>Physical Review B</i> , 2020, 102, .	1.1	12
26	Magnetic field induced valley-polarized quantum anomalous Hall effects in ferromagnetic van der Waals heterostructures. <i>Physical Review B</i> , 2022, 105, .	1.1	11
27	π characteristic of the Josephson current in a carbon nanotube quantum dot. <i>Physical Review B</i> , 2014, 89, .	1.1	9
28	Low-compressibility and hard material carbon nitride imide $\text{C}_2\text{N}_2(\text{NH})$: First principles calculations. <i>Journal of Solid State Chemistry</i> , 2011, 184, 572-577.	1.4	8
29	Pressure effect on structural, elastic, and thermodynamic properties of tetragonal B_4C_4 . <i>AIP Advances</i> , 2015, 5, .	0.6	8
30	Structural, spectral characterization and electron paramagnetic resonance studies of Ni^{2+} ions in various compounds: KZnF_3 , CdCl_2 , CdBr_2 and CsMgI_3 . <i>Molecular Physics</i> , 2009, 107, 133-141.	0.8	7
31	Reinvestigation of Mechanical Properties and Shear-Induced Atomic Deformation of Tetragonal Superhard Semiconducting OsB_4 . <i>Journal of Physical Chemistry C</i> , 2017, 121, 6290-6299.	1.5	7
32	Modeling the elastic anisotropies and mechanical strengths of Ir_3X intermetallics. <i>Journal of Alloys and Compounds</i> , 2017, 696, 611-618.	2.8	7
33	Robust Topological States in Bi_2Se_3 against Surface Oxidation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6253-6259.	1.5	7
34	DFT study of size-dependent geometries, stabilities and electronic properties of Si_2Ag_n clusters: comparison with pure silver clusters. <i>Molecular Physics</i> , 2014, 112, 972-981.	0.8	6
35	First-principles investigations of the structure and physical properties for new TcN crystal structure. <i>Molecular Physics</i> , 2016, 114, 1952-1959.	0.8	5
36	Photoinduced quantum anomalous Hall states in the topological Anderson insulator. <i>Physical Review B</i> , 2022, 105, .	1.1	5

#	ARTICLE	IF	CITATIONS
37	Mechanical anisotropy and origin of shear plastic deformation of tetragonal $B_{4}C$. <i>Europhysics Letters</i> , 2014, 108, 16001.	0.7	4
38	Mechanical Properties and Atomic Explanation of Plastic Deformation for Diamond-Like BC_{2} . <i>Materials</i> , 2016, 9, 514.	1.3	3
39	Shear-Induced Structural Transformation for Tetragonal BC_{4} . <i>Journal of Physical Chemistry C</i> , 2016, 120, 581-586.	1.5	3
40	Pressure-induced phase transition and electronic properties of $MgB_{2}C_{2}$. <i>Journal of Applied Physics</i> , 2017, 121, 195102.	1.1	3
41	Structural, mechanical and electronic properties of $CaB_{2}C_{2}$ at high pressure. <i>Europhysics Letters</i> , 2017, 118, 66001.	0.7	2
42	Crystal Structure and Mechanical Properties of $ThBC_{2}$. <i>Crystals</i> , 2019, 9, 389.	1.0	2
43	Pressure-Induced Phase Transition and Mechanical Properties of $Mg_{2}Sr$ Intermetallics. <i>Materials</i> , 2016, 9, 902.	1.3	1
44	The Curie Temperature of the Ferroelectric Superlattice Films with Surface Modification. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2009, 64, 723-728.	0.7	0
45	PYROELECTRIC AND PHASE TRANSITION PROPERTIES OF A FINITE ALTERNATING FERROELECTRIC SUPERLATTICE WITH THREE SURFACE LAYERS. <i>Modern Physics Letters B</i> , 2011, 25, 1321-1333.	1.0	0
46	A Systematic Search for Structures, Stabilities, Electronic and Magnetic Properties of Silicon Doped Silver Clusters: Comparison with Pure Silver Clusters. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2013, 68, 327-336.	0.7	0