Bao-Bing Zheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9236523/publications.pdf

Version: 2024-02-01

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	Photoinduced quantum anomalous Hall states in the topological Anderson insulator. Physical Review B, 2022, 105, .	1.1	5
2	Magnetic field induced valley-polarized quantum anomalous Hall effects in ferromagnetic van der Waals heterostructures. Physical Review B, 2022, 105, .	1.1	11
3	Floquet valley-polarized quantum anomalous Hall state in nonmagnetic heterobilayers. Physical Review B, 2022, 105, .	1.1	16
4	Symmetry-enforced nodal cage phonons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Th</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2022, 105, .	1.1	10
5	Three-Dimensional Dirac Phonons with Inversion Symmetry. Physical Review Letters, 2021, 126, 185301.	2.9	58
6	Hourglass phonons jointly protected by symmorphic and nonsymmorphic symmetries. Physical Review B, 2021, 104, .	1.1	35
7	Two-Dimensional Dirac Semimetals without Inversion Symmetry. Physical Review Letters, 2020, 125, 116402.	2.9	19
8	Photoinduced Floquet mixed-Weyl semimetallic phase in a carbon allotrope. Physical Review B, 2020, 102, .	1.1	12
9	Ideal type-III nodal-ring phonons. Physical Review B, 2020, 101, .	1.1	53
10	Symmetry-Protected Topological Triangular Weyl Complex. Physical Review Letters, 2020, 124, 105303.	2.9	78
11	Strain-tunable out-of-plane polarization in two-dimensional materials. Physical Review B, 2020, 101, .	1.1	16
12	Three-terminal Weyl complex with double surface arcs in a cubic lattice. Npj Computational Materials, 2020, 6, .	3.5	29
13	Robust Topological States in Bi₂Se₃ against Surface Oxidation. Journal of Physical Chemistry C, 2020, 124, 6253-6259.	1.5	7
14	CoSe2 modified Se-decorated CdS nanowire Schottky heterojunctions for highly efficient photocatalytic hydrogen evolution. Chemical Engineering Journal, 2020, 389, 124431.	6.6	57
15	Intrinsic quantum anomalous Hall phase induced by proximity in the van der Waals heterostructure germanene/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2020, 101, .	1.1	23
16	Crystal Structure and Mechanical Properties of ThBC2. Crystals, 2019, 9, 389.	1.0	2
17	Tunable ferromagnetic Weyl fermions from a hybrid nodal ring. Npj Computational Materials, 2019, 5, .	3.5	15
18	Two-Dimensional Li-Based Ternary Chalcogenides for Photocatalysis. Journal of Physical Chemistry Letters, 2019, 10, 6061-6066.	2.1	31

#	Article	IF	Citations
19	New Family of Two-Dimensional Ternary Photoelectric Materials. ACS Applied Materials & Interfaces, 2019, 11, 14457-14462.	4.0	35
20	Robust Twin Pairs of Weyl Fermions in Ferromagnetic Oxides. Physical Review Letters, 2019, 122, 057205.	2.9	14
21	Ideal Nodal Line Semimetal in a Two-Dimensional Boron Bilayer. Journal of Physical Chemistry C, 2019, 123, 4977-4983.	1.5	35
22	Extremely High Mobilities in Two-Dimensional Group-VA Binary Compounds with Large Conversion Efficiency for Solar Cells. Journal of Physical Chemistry C, 2018, 122, 27590-27596.	1.5	17
23	Oxidation-Induced Topological Phase Transition in Monolayer 1Tâ€²-WTe₂. Journal of Physical Chemistry Letters, 2018, 9, 4783-4788.	2.1	19
24	Three-dimensional quantum anomalous Hall effect in ferromagnetic insulators. Physical Review B, 2018, 98, .	1.1	25
25	Reinvestigation of Mechanical Properties and Shear-Induced Atomic Deformation of Tetragonal Superhard Semiconducting OsB4. Journal of Physical Chemistry C, 2017, 121, 6290-6299.	1.5	7
26	Pressure-induced phase transition and electronic properties of MgB2C2. Journal of Applied Physics, 2017, 121, 195102.	1.1	3
27	Structural, mechanical and electronic properties of CaB ₂ C ₂ at high pressure. Europhysics Letters, 2017, 118, 66001.	0.7	2
28	Modeling the elastic anisotropies and mechanical strengths of Ir3X intermetallics. Journal of Alloys and Compounds, 2017, 696, 611-618.	2.8	7
29	Exploring the Mechanical Anisotropy and Ideal Strengths of Tetragonal B4CO4. Materials, 2017, 10, 128.	1.3	20
30	Mechanical Properties and Atomic Explanation of Plastic Deformation for Diamond-Like BC2. Materials, 2016, 9, 514.	1.3	3
31	Pressure-Induced Phase Transition and Mechanical Properties of Mg2Sr Intermetallics. Materials, 2016, 9, 902.	1.3	1
32	First-principles investigations of the structure and physical properties for new TcN crystal structure. Molecular Physics, 2016, 114, 1952-1959.	0.8	5
33	Electronic bonding analyses and mechanical strengths of incompressible tetragonal transition metal dinitrides TMN2 (TMâ€‰=â€‰Ti, Zr, and Hf). Scientific Reports, 2016, 6, 36911.	1.6	22
34	Shear-Induced Structural Transformation for Tetragonal BC₄. Journal of Physical Chemistry C, 2016, 120, 581-586.	1.5	3
35	Influences of carbon concentration on crystal structures and ideal strengths of B2CxO compounds in the B-C-O system. Scientific Reports, 2015, 5, 15481.	1.6	23
36	Pressure effect on structural, elastic, and thermodynamic properties of tetragonal B4C4. AIP Advances, 2015, 5, .	0.6	8

#	Article	IF	Citations
37	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>0</mml:mn><mml:mtext>â^'</mml:mtext><mml:mi>Ï€</mml:mi></mml characteristic of the Josephson current in a carbon nanotube quantum dot. Physical Review B, 2014, 89, .	1.1	9
38	Mechanical anisotropy and origin of shear plastic deformation of tetragonal B ₄ C ₄. Europhysics Letters, 2014, 108, 16001.	0.7	4
39	DFT study of size-dependent geometries, stabilities and electronic properties of Si₂Ag_nclusters: comparison with pure silver clusters. Molecular Physics, 2014, 112, 972-981.	0.8	6
40	A Systematic Search for Structures, Stabilities, Electronic and Magnetic Properties of Silicon Doped Silver Clusters: Comparison with Pure Silver Clusters. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 327-336.	0.7	0
41	Ab initio calculation of the geometries, stabilities, and electronic properties for the bimetallic Be2Au n (nâ€‰=â€‰1â€“9) clusters: comparison with pure gold clusters. Journal of Molecular Modeling, 2012, 18, 275-283.	0.8	17
42	Equilibrium Geometries, Stabilities, and Electronic Properties of the Bimetallic M₂-doped Au_n (M = Ag, Cu; n = 1â^'10) Clusters: Comparison with Pure Gold Clusters. Journal of Physical Chemistry A, 2011, 115, 569-576.	1.1	52
43	Low-compressibility and hard material carbon nitride imide C2N2(NH): First principles calculations. Journal of Solid State Chemistry, 2011, 184, 572-577.	1.4	8
44	PYROELECTRIC AND PHASE TRANSITION PROPERTIES OF A FINITE ALTERNATING FERROELECTRIC SUPERLATTICE WITH THREE SURFACE LAYERS. Modern Physics Letters B, 2011, 25, 1321-1333.	1.0	0
45	The Curie Temperature of the Ferroelectric Superlattice Films with Surface Modification. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 723-728.	0.7	0
46	Structural, spectral characterization and electron paramagnetic resonance studies of Ni²⁺ions in various compounds: KZnF₃, CdCl₂, CdBr₂and CsMgI₃. Molecular Physics, 2009, 107, 133-141.	0.8	7