

Zhi Zeng

List of Publications by Year in descending order

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83
papers

2,171
citations

279798

23
h-index

233421

45
g-index

83
all docs

83
docs citations

83
times ranked

3234
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of low thermal conductivity in SnSe. Physical Review B, 2016, 94, .	3.2	287
2	Carbon Nanotubeâ€Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Liâ€Oxygen Batteries. Advanced Functional Materials, 2014, 24, 6516-6523.	14.9	157
3	Correlation between structure, phonon spectra, thermal expansion, and thermomechanics of single-layer MoS_2 . Physical Review B, 2014, 90, .	3.2	138
4	First-principles study on the enhancement of lithium storage capacity in boron doped graphene. Applied Physics Letters, 2009, 95, .	3.3	116
5	Density-functional investigation of metal-silicon cage clusters		

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19	Pure spin current generation via photogalvanic effect with spatial inversion symmetry. Physical Review B, 2020, 102, .	3.2	43
20	The role of Sb in solar cell material $\text{Cu}_2\text{ZnSnS}_4$. Journal of Materials Chemistry A, 2017, 5, 6606-6612.	10.3	36
21	Realizing giant tunneling electroresistance in two-dimensional graphene/BiP ferroelectric tunnel junction. Nanoscale, 2019, 11, 16837-16843.	5.6	35
22	A review of surface damage/microstructures and their effects on hydrogen/helium retention in tungsten. Tungsten, 2020, 2, 34-71.	4.8	32
23	Ab initio study of the giant ferroelectric distortion and pressure-induced spin-state transition in BiCoO_3 . Physical Review B, 2011, 83, .	3.2	30
24	Giant tunnel electroresistance in ferroelectric tunnel junctions with metal contacts to two-dimensional ferroelectric materials. Physical Review B, 2021, 103, .	3.2	26
25	Ferroelectric control of electron half-metallicity in A-type antiferromagnets and its application to nonvolatile memory devices. Physical Review B, 2020, 102, .	3.2	23
26	An investigation of Na-related defects in $\text{Cu}_2\text{ZnSnSe}_4$. Physical Chemistry Chemical Physics, 2017, 19, 17799-17804.	2.8	21
27	Tuning the adatom-surface and interadatom interactions in hydrogenated graphene by charge doping. Physical Review B, 2012, 86, .	3.2	20
28	Spin density waves predicted in zigzag puckered phosphorene, arsenene and antimonene nanoribbons. AIP Advances, 2016, 6, .	1.3	20
29	Adsorption of carbon dots onto Al_2O_3 in aqueous: Experimental and theoretical studies. Environmental Pollution, 2017, 227, 31-38.	7.5	20
30	The doping effects in Bi_2O_3 oxide ionic conductor. Physica Status Solidi (B): Basic Research, 2008, 245, 2737-2742.	1.5	19
31	Oxygen vacancy configuration of Bi_2O_3 : an ab initio study. Physica Status Solidi (B): Basic Research, 2009, 246, 97-101.	1.5	19
32	Robust and Pristine Topological Dirac Semimetal Phase in Pressured Two-Dimensional Black Phosphorus. Journal of Physical Chemistry C, 2017, 121, 20931-20936.	3.1	18
33	Two-dimensional centrosymmetrical antiferromagnets for spin photogalvanic devices. Npj Quantum Information, 2021, 7, .	6.7	18
34	Identifying the Intermediate Free-Carrier Dynamics Across the Charge Separation in Monolayer $\text{MoS}_2/\text{ReSe}_2$ Heterostructures. ACS Nano, 2021, 15, 16760-16768.	14.6	17
35	Dimensionality-induced insulator-metal crossover in layered nickelates $\text{La}_{1-x}\text{Ni}_x\text{O}_{2+x}$ ($x = 2, 3, \text{ and } \tilde{z}$). AIP Advances, 2014, 4, .	1.3	15
36	Room temperature memory device using single-molecule magnets. RSC Advances, 2015, 5, 54667-54671.	3.6	15

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37	Patterning graphene nanostripes in substrate-supported functionalized graphene: A promising route to integrated, robust, and superior transistors. <i>Frontiers of Physics</i> , 2012, 7, 324-327.	5.0	13
38	Defect physics in intermediate-band materials: Insights from an optimized hybrid functional. <i>Physical Review B</i> , 2017, 96, .	3.2	13
39	Pressure effects on the lattice vibrations and ultrafast photocarrier dynamics in 2H-TaS_2 . <i>Applied Physics Letters</i> , 2020, 117, .	3.3	13
40	Magnetic frustration in LaNaMnO_2 and CuMnO_2 . <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	12
41	ELASTIC PROPERTIES OF TRANSITION METAL DIOXIDES: XO_2 ($\text{X} = \text{Ru}, \text{Rh}, \text{Os}$, and Ir). <i>International Journal of Modern Physics C</i> , 2008, 19, 1269-1275.	1.7	11
42	Polymerization of Nitrogen in Nitrogen-Fluorine Compounds under Pressure. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5731-5737.	4.6	11
43	Giant Tunneling Electroresistance Induced by Interfacial Doping in $\text{Pt}/\text{BaO}/\text{Pt}$ Nanoscale Tunnel Junctions. <i>Physical Review Applied</i> , 2022, 17, .	3.8	10
44	Thermal spin current in zigzag silicene nanoribbons with sp^2 - sp^3 edges. <i>RSC Advances</i> , 2017, 7, 28124-28129.	3.6	9
45	Spin states of Co ions in LaCoO_3 . <i>Rare case of magnetic insulator</i> , 2010, 82, .	3.2	8
46	Double perovskite $\text{Ag}_3\text{Mg}_2\text{Mn}_3\text{O}_{13}$. <i>Physical Review B</i> , 2010, 82, .	3.2	7
47	Theoretical study on structural and electronic properties of solid anthracene under high pressure by density functional theory. <i>Molecular Physics</i> , 2016, 114, 283-289.	1.7	7
48	Domain-wall induced giant tunneling electroresistance effect in two-dimensional Graphene/ In_2Se_3 ferroelectric tunnel junctions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 133, 114783.	2.7	7
49	Site and length dependent quantum interference and resonance in the electron transport of armchair carbon nanotube molecular junctions. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8032-8040.	2.8	7
50	Bias induced spin transitions of spin crossover molecules: the role of charging effect. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7652-7658.	2.8	6
51	FIRST-PRINCIPLES STUDY OF THE STRUCTURAL, ELECTRONIC AND OPTICAL PROPERTIES OF MgSiO_3 AT HIGH PRESSURE. <i>International Journal of Modern Physics C</i> , 2009, 20, 1093-1101.	1.7	5
52	Understanding the stability and dynamical process of hydrogen trimers on graphene. <i>Journal of Applied Physics</i> , 2013, 113, 173707.	2.5	5
53	Structural and electronic properties of solid naphthalene under pressure: density functional calculations. <i>European Physical Journal B</i> , 2016, 89, 1.	1.5	5
54	High-Pressure Synthesis of CeOCl Crystals and Investigation of Their Photoluminescence and Compressibility Properties. <i>Crystal Growth and Design</i> , 2018, 18, 1843-1847.	3.0	5

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55	High-pressure Raman spectroscopy of CeOCl: Observation of the isostructural phase transition. Journal of Raman Spectroscopy, 2019, 50, 1962-1968.	2.5	5
56	Ferromagnetic sandwich-like wires constructed with transition metals and anthracene. Applied Physics Letters, 2013, 103, 032404.	3.3	4
57	Hydrogen influence on generalized stacking fault energies of Zr {0001} basal plane: a first-principles study. RSC Advances, 2016, 6, 54371-54376.	3.6	4
58	The polymerization of nitrogen in Li ₂ N ₂ at high pressures. Scientific Reports, 2018, 8, 13144.	3.3	4
59	Superconductivity of boron-doped graphane under high pressure. RSC Advances, 2019, 9, 7680-7686.	3.6	4
60	Entropic broadening of the spin-crossover pressure in ferropericlase. Physical Review B, 2021, 103, .	3.2	4
61	Configuration stability and electronic properties of diamane with boron and nitrogen dopants. Physical Review B, 2022, 105, .	3.2	4
62	Spin-flip effect on transport properties of a Mn ₃ molecule. Journal of Applied Physics, 2012, 111, 07B303.	2.5	3
63	\pm -K ₂ AgF ₄ : Ferromagnetism induced by the weak superexchange of different eg orbitals from the nearest neighbor Ag ions. AIP Advances, 2016, 6, .	1.3	3
64	Bias induced spin state transition mediated by electron excitations. Journal of Chemical Physics, 2020, 152, 134301.	3.0	3
65	Factors affecting the electron-phonon coupling in FeSe under pressure. Physical Chemistry Chemical Physics, 2021, 23, 25107-25113.	2.8	3
66	Nonequilibrium electron and lattice dynamics of $Sb_{2-x}Mn_x$ under pressure. Physical Review B, 2022, 105, .	3.2	3
67	Investigations of the mechanical properties of the Zr ₈ Ti ₈ random alloy. International Journal of Modern Physics C, 2016, 27, 1650076.	1.7	2
68	Possibility of Doping $Cu_xGa_{1-x}Se_2$ -Type by Hydrogen. Physical Review Applied, 2021, 15, .	3.1	2
69	Investigations of High-Pressure Properties of MnF ₂ Based on the First-Principles Method. Journal of Physical Chemistry C, 0, , .	3.1	2
70	Quantum-size effect on the electronic and optical properties of hybrid TiO ₂ /Au clusters. Journal of Chemical Physics, 2014, 141, 054301.	3.0	1
71	From 1D chain to 3D network: A theoretical study on TiO ₂ low dimensional structures. Journal of Chemical Physics, 2015, 142, 224305.	3.0	1
72	Chemical substitution assisted ion sensing with organic molecules: a case study of naphthalene. RSC Advances, 2016, 6, 6191-6195.	3.6	1

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73	Schottky defects induced effects on the behaviors of high velocity shock compression of MgO. RSC Advances, 2017, 7, 45304-45310.	3.6	1
74	Realizing bias-induced spin transition with high-spin Mn ^{II} complexes at room temperature. Journal of Materials Chemistry C, 2017, 5, 11598-11604.	5.5	1
75	One-electron reduction induced spin transition in Fe(^{II}) spin crossover molecules and the effect of the ligand. Journal of Materials Chemistry C, 2021, 9, 4808-4814.	5.5	1
76	A CLUSTER STUDY OF MECHANISM IN THE NEW SUPERCONDUCTORS YBa ₂ Cu ₃ O ₇ . International Journal of Modern Physics B, 1987, 01, 607-612.	2.0	0
77	Interaction between Cs and Fe. Journal of Applied Physics, 2003, 93, 7255-7257.	2.5	0
78	Absence of phase transformation of dense anthracene from Raman scattering. High Pressure Research, 2015, 35, 379-387.	1.2	0
79	First-principles calculations on spin-polarized transport properties of Mn ₄ O ₄ cluster. Rare Metals, 2015, 34, 45-50.	7.1	0
80	Pressure-induced structural, magnetic and transport transitions in Sr ₂ FeO ₃ from first-principles. AIP Advances, 2017, 7, 055703.	1.3	0
81	Structural, electronic and magnetic properties of TlFeSe ₂ under high pressure. Journal of Physics Condensed Matter, 2021, 33, 415702.	1.8	0
82	Hydrostatic pressure effect of photocarrier dynamics in GaAs probed by time-resolved terahertz spectroscopy. , 2021, , .		0
83	Strain effects on the behavior of intrinsic point defects within the GaN/AlN interface. International Journal of Modern Physics C, 0, , .	1.7	0