

Zhibin Gao

List of Publications by Year in Descending Order

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Version: 2024-04-18

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

819
citations

15
h-index

28
g-index

48
ext. papers

1,161
ext. citations

5.8
avg. IF

5.17
L-index

#	Paper	IF	Citations
48	Highly Anisotropic Thermoelectric Properties of Two-Dimensional As ₂ Te ₃ . <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1610-1620	4	6
47	Phonon Hall effect with first-principles calculations. <i>Physical Review B</i> , 2021 , 103,	3.3	1
46	Highly anisotropic electronic and mechanical properties of monolayer and bilayer As ₂ S ₃ . <i>Applied Surface Science</i> , 2021 , 542, 148665	6.7	4
45	Directional Design of Materials Based on Multi-Objective Optimization: A Case Study of Two-Dimensional Thermoelectric SnSe. <i>Chinese Physics Letters</i> , 2021 , 38, 027301	1.8	5
44	Observation of Anisotropic Magnetoresistance in Layered Nonmagnetic Semiconducting PdSe. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37527-37534	9.5	2
43	Study on Fracture Parameters of Stress Corrosion Cracking Tip of AA6082 Alloy at the Microscopic Scale. <i>Journal of Physics: Conference Series</i> , 2021 , 2002, 012001	0.3	
42	Large contribution of quasi-acoustic shear phonon modes to thermal conductivity in novel monolayer Ga ₂ O ₃ . <i>Journal of Applied Physics</i> , 2021 , 130, 105106	2.5	3
41	Thermal transport property of novel two-dimensional nitride phosphorus: An ab initio study. <i>Applied Surface Science</i> , 2021 , 559, 149463	6.7	3
40	Cooling rate dependence of the properties for Ti ₁₁₀ Al ₁₄ V ₄ alloy investigated by ab initio molecular dynamics. <i>Journal of Molecular Liquids</i> , 2021 , 343, 117604	6	1
39	Theoretically modelling graphene-like carbon matryoshka with strong stability and particular three-center two-electron bonds. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11907-11916	3.6	1
38	Band degeneracy enhanced thermoelectric performance in layered oxyselenides by first-principles calculations. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	14
37	Insights into thermal transport property of monolayer C ₄ N ₃ H: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114241	3	0
36	Tunable Properties of Novel GaO Monolayer for Electronic and Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30659-30669	9.5	37
35	Extrapolated Defect Transition Level in Two-Dimensional Materials: The Case of Charged Native Point Defects in Monolayer Hexagonal Boron Nitride. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17055-17061	9.5	8
34	Thermoelectric Penta-Silicene with a High Room-Temperature Figure of Merit. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14298-14307	9.5	36
33	First-principles molecular dynamics studying the solidification of Ti-6Al-4V alloy. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113606	6	2
32	A Novel Hyperbolic Two-Dimensional Carbon Material with an In-Plane Negative Poisson's Ratio Behavior and Low-Gap Semiconductor Characteristics. <i>ACS Omega</i> , 2020 , 5, 15783-15790	3.9	6

31	Comparative investigation of the thermal transport properties of Janus SnSSe and SnS monolayers. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16796-16803	3.6	10
30	Potential molecular semiconductor devices: cyclo-C (n = 10 and 14) with higher stabilities and aromaticities than acknowledged cyclo-C. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 4823-4831	3.6	16
29	Abnormally low thermal conductivity of 2D selenene: An ab initio study. <i>Journal of Applied Physics</i> , 2020 , 127, 065103	2.5	11
28	Strain-tunable III-nitride/ZnO heterostructures for photocatalytic water-splitting: A hybrid functional calculation. <i>APL Materials</i> , 2020 , 8, 041114	5.7	23
27	Three metallic BN polymorphs: 1D multi-threaded conduction in a 3D network. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 489-496	3.6	3
26	Impact of the interface vacancy on Schottky barrier height for Au/AlN polar interfaces. <i>Applied Surface Science</i> , 2020 , 505, 144650	6.7	10
25	Charge density wave instability and pressure-induced superconductivity in bulk 1T $\bar{1}$ TeS ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	7
24	Structures and Properties of Titanium Alloys Doped with Trace Transition Metals: A Density Functional Theory Study. <i>Russian Journal of Physical Chemistry A</i> , 2020 , 94, 2055-2063	0.7	0
23	Thermal transport properties of novel two-dimensional CSe. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 17833-17841	3.6	4
22	Native Point Defects in Monolayer Hexagonal Boron Phosphide from First Principles. <i>Journal of Electronic Materials</i> , 2020 , 49, 5782-5789	1.9	3
21	Current-induced phonon Hall effect. <i>Physical Review B</i> , 2020 , 102,	3.3	2
20	First-Principles Method to Study Near-Field Radiative Heat Transfer. <i>Physical Review Applied</i> , 2020 , 14,	4.3	1
19	Anisotropic thermal expansion and thermodynamic properties of monolayer Te. <i>Physical Review B</i> , 2019 , 99,	3.3	17
18	Prediction on elastic properties of Nb-doped Ni systems. <i>Molecular Simulation</i> , 2019 , 45, 935-941	2	5
17	Degenerately Doped Transition Metal Dichalcogenides as Ohmic Homo Junction Contacts to Transition Metal Dichalcogenide Semiconductors. <i>ACS Nano</i> , 2019 , 13, 5103-5111	16.7	25
16	Strain effects on the mechanical properties of Group-V monolayers with buckled honeycomb structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 112, 59-65	3	15
15	Effect of processing parameters on thermal behavior and related density in GH3536 alloy manufactured by selective laser melting. <i>Journal of Materials Research</i> , 2019 , 34, 1405-1414	2.5	5
14	Insight into Two-Dimensional Borophene: Five-Center Bond and Phonon-Mediated Superconductivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47279-47288	9.5	8

13	Ultra-low lattice thermal conductivity of monolayer penta-silicene and penta-germanene. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26033-26040	3.6	22
12	Ultralow lattice thermal conductivity and electronic properties of monolayer 1T phase semimetal SiTe ₂ and SnTe ₂ . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 108, 53-59	3	21
11	Unusually low thermal conductivity of atomically thin 2D tellurium. <i>Nanoscale</i> , 2018 , 10, 12997-13003	7.7	83
10	High Thermoelectric Performance in Two-Dimensional Tellurium: An Ab Initio Study. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40702-40709	9.5	63
9	Thin Films: Enhanced Raman Scattering of CuPc Films on Imperfect WSe ₂ Monolayer Correlated to Exciton and Charge-Transfer Resonances (Adv. Funct. Mater. 52/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870369	15.6	3
8	Two-Dimensional Mechanical Metamaterials with Unusual Poisson Ratio Behavior. <i>Physical Review Applied</i> , 2018 , 10,	4.3	14
7	Enhanced Raman Scattering of CuPc Films on Imperfect WSe ₂ Monolayer Correlated to Exciton and Charge-Transfer Resonances. <i>Advanced Functional Materials</i> , 2018 , 28, 1805710	15.6	36
6	Enhancement of Out-of-Plane Charge Transport in a Vertically Stacked Two-Dimensional Heterostructure Using Point Defects. <i>ACS Nano</i> , 2018 , 12, 10529-10536	16.7	39
5	Novel Two-Dimensional Silicon Dioxide with in-Plane Negative Poisson's Ratio. <i>Nano Letters</i> , 2017 , 17, 772-777	11.5	131
4	Two-Dimensional Heterostructure as a Platform for Surface-Enhanced Raman Scattering. <i>Nano Letters</i> , 2017 , 17, 2621-2626	11.5	97
3	Heat conduction and energy diffusion in momentum-conserving one-dimensional full-lattice dimer-a-ling model. <i>Physical Review E</i> , 2016 , 93, 022102	2.4	8
2	Stretch diffusion and heat conduction in one-dimensional nonlinear lattices. <i>Physical Review E</i> , 2016 , 93, 032130	2.4	7
1	Novel 2D PC 5 with a Dirac Cone and Edge-Size Dependence. <i>Physica Status Solidi - Rapid Research Letters</i> , 2100203	2.5	1