

Guang-qian Ding

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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.

47 papers	1,441 citations	19 h-index	37 g-index
49 ext. papers	1,862 ext. citations	5.7 avg, IF	5.11 L-index

#	Paper	IF	Citations
47	Monolayer MXenes: promising half-metals and spin gapless semiconductors. <i>Nanoscale</i> , 2016 , 8, 8986-9477	7.7	265
46	High-efficient thermoelectric materials: The case of orthorhombic IV-VI compounds. <i>Scientific Reports</i> , 2015 , 5, 9567	4.9	139
45	Monolayer PdSe: A promising two-dimensional thermoelectric material. <i>Scientific Reports</i> , 2018 , 8, 2764	4.9	94
44	Thermoelectric properties of monolayer MSe ₂ (M = Zr, Hf): low lattice thermal conductivity and a promising figure of merit. <i>Nanotechnology</i> , 2016 , 27, 375703	3.4	86
43	CrTiC-based double MXenes: novel 2D bipolar antiferromagnetic semiconductor with gate-controllable spin orientation toward antiferromagnetic spintronics. <i>Nanoscale</i> , 2018 , 11, 356-364	7.7	77
42	Two-dimensional honeycomb borophene oxide: strong anisotropy and nodal loop transformation. <i>Nanoscale</i> , 2019 , 11, 2468-2475	7.7	62
41	Thermoelectric properties of SnSe monolayer. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 015001	1.8	62
40	Stretch-Driven Increase in Ultrahigh Thermal Conductance of Hydrogenated Borophene and Dimensionality Crossover in Phonon Transmission. <i>Advanced Functional Materials</i> , 2018 , 28, 1801685	15.6	58
39	Engineering of charge carriers via a two-dimensional heterostructure to enhance the thermoelectric figure of merit. <i>Nanoscale</i> , 2018 , 10, 7077-7084	7.7	44
38	Strain-induced thermoelectric performance enhancement of monolayer ZrSe ₂ . <i>RSC Advances</i> , 2017 , 7, 47243-47250	3.7	42
37	Thermoelectric properties of half-Heusler topological insulators MPtBi (M = Sc, Y, La) induced by strain. <i>Journal of Applied Physics</i> , 2016 , 119, 025105	2.5	35
36	Remarkably enhanced ferromagnetism in a super-exchange governed Cr ₂ Ge ₂ Te ₆ monolayer via molecular adsorption. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5084-5093	7.1	32
35	Electron and phonon transport properties of layered Bi ₂ O ₂ Se and Bi ₂ O ₂ Te from first-principles calculations. <i>New Journal of Physics</i> , 2018 , 20, 123014	2.9	32
34	Probing the Physical Origin of Anisotropic Thermal Transport in Black Phosphorus Nanoribbons. <i>Advanced Materials</i> , 2018 , 30, e1804928	24	31
33	Examining the thermal conductivity of the half-Heusler alloy TiNiSn by first-principles calculations. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 235302	3	26
32	Novel topological nodal lines and exotic drum-head-like surface states in synthesized CsCl-type binary alloy TiOs. <i>Journal of Advanced Research</i> , 2020 , 22, 137-144	13	26
31	Thermoelectric performance of half-Heusler compounds MYsSb (M = Ni, Pd, Pt). <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 385305	3	24

30	Rich topological nodal line bulk states together with drum-head-like surface states in NaAlGe with -PbFCl type structure. <i>Journal of Advanced Research</i> , 2020 , 23, 95-100	13	21
29	Half-metals and half-semiconductors in a transition metal doped SnSe ₂ monolayer: a first-principles study. <i>RSC Advances</i> , 2017 , 7, 44499-44504	3.7	20
28	Ultralow lattice thermal conductivity in topological insulator TlBiSe ₂ . <i>Applied Physics Letters</i> , 2016 , 108, 233902	3.4	19
27	Phonon stability and phonon transport of graphene-like borophene. <i>Nanotechnology</i> , 2020 , 31, 315709	3.4	18
26	Review of thermal transport and electronic properties of borophene. <i>Chinese Physics B</i> , 2018 , 27, 036303	3.2	18
25	Low lattice thermal conductivity and promising thermoelectric figure of merit of Zintl type TlInTe ₂ . <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13269-13274	7.1	18
24	Convergence of separate orbits for enhanced thermoelectric performance of layered ZrS ₂ . <i>New Journal of Physics</i> , 2017 , 19, 073036	2.9	17
23	The important role of strain on phonon hydrodynamics in diamond-like bi-layer graphene. <i>Nanotechnology</i> , 2020 , 31, 335711	3.4	16
22	Band structure engineering of multiple band degeneracy for enhanced thermoelectric power factors in MTe and MSe (M = Pb, Sn, Ge). <i>RSC Advances</i> , 2015 , 5, 91974-91978	3.7	15
21	Two-dimensional MoS ₂ -MoSe ₂ lateral superlattice with minimized lattice thermal conductivity. <i>Journal of Applied Physics</i> , 2018 , 124, 165101	2.5	15
20	Bilayer MSe (M = Zr, Hf) as promising two-dimensional thermoelectric materials: a first-principles study.. <i>RSC Advances</i> , 2019 , 9, 12394-12403	3.7	14
19	A comparative study of thermoelectric properties between bulk and monolayer SnSe. <i>Results in Physics</i> , 2019 , 15, 102631	3.7	13
18	Transition metal-doped janus monolayer SMoSe with excellent thermal spin filter and spin Seebeck effect. <i>Applied Surface Science</i> , 2019 , 491, 750-756	6.7	11
17	Unique topological nodal line states and associated exceptional thermoelectric power factor platform in NbGeTe monolayer and bulk. <i>Nanoscale</i> , 2020 , 12, 16910-16916	7.7	11
16	3-type LnNiO (Ln = La, Ce, Nd, Pm, Gd, Tb, Dy, Ho, Er, Lu) half-metals with multiple Dirac cones: a potential class of advanced spintronic materials. <i>IUCrJ</i> , 2019 , 6, 990-995	4.7	10
15	Intersecting nodal rings in orthorhombic-type BaLi ₂ Sn compound. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5461-5466	7.1	9
14	Three-dimensional graphene networks modified with acetylenic linkages for high-performance optoelectronics and Li-ion battery anode material. <i>Carbon</i> , 2019 , 154, 478-484	10.4	9
13	Origins of Minimized Lattice Thermal Conductivity and Enhanced Thermoelectric Performance in WS/WSe Lateral Superlattice. <i>ACS Omega</i> , 2021 , 6, 7879-7886	3.9	9

12	Multiple thermal spin transport performances of graphene nanoribbon heterojunction co-doped with Nitrogen and Boron. <i>Scientific Reports</i> , 2017 , 7, 3955	4.9	7
11	From Two- to Three-Dimensional van der Waals Layered Structures of Boron Crystals: An Ab Initio Study. <i>ACS Omega</i> , 2019 , 4, 8015-8021	3.9	6
10	Pnma metal hydride system LiBH: a superior topological semimetal with the coexistence of twofold and quadruple degenerate topological nodal lines. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 365502	1.8	5
9	Spin Seebeck effect in bipolar magnetic semiconductor: A case of magnetic MoS nanotube. <i>Journal of Advanced Research</i> , 2020 , 24, 391-396	13	5
8	Diverse topological states in a ternary NdAsPd compound. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7741-7748	17	4
7	Prediction of large magnetoelectric coupling in Fe ₄ N/BaTiO ₃ and MnFe ₃ N/BaTiO ₃ junctions from a first-principles study. <i>RSC Advances</i> , 2016 , 6, 29504-29511	3.7	4
6	Thermal spin transport properties based on VS ₂ monolayer: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2017 , 701, 754-758	5.7	3
5	Origins of promising thermoelectric performance in quaternary selenide BaAg ₂ SnSe ₄ . <i>Applied Physics Express</i> , 2019 , 12, 071006	2.4	3
4	Abnormal thermal conductivity enhancement in covalently bonded bilayer borophene allotrope. <i>Nano Research</i> , 1	10	3
3	The promising thermoelectric performance of newly synthesized bulk SrCu ₂ GeSe ₄ and BaCu ₂ SnSe ₄ associated with superior band degeneracy. <i>Applied Physics Express</i> , 2021 , 14, 045502	2.4	1
2	Investigation of nodal line spin-gapless semiconductors using first-principles calculations. <i>Journal of Materials Chemistry C</i> ,	7.1	1
1	Promising Thermoelectric Performance in Two-Dimensional Semiconducting Boron Monolayer. <i>Frontiers in Chemistry</i> , 2021 , 9, 739984	5	