Guang-qian Ding

List of Publications by Year in Descending Order

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	Origins of Minimized Lattice Thermal Conductivity and Enhanced Thermoelectric Performance in WS/WSe Lateral Superlattice. *ACS Omega*, **2021**, 6, 7879-7886	3.9	9
46	The promising thermoelectric performance of newly synthesized bulk SrCu2GeSe4 and BaCu2SnSe4 associated with superior band degeneracy. *Applied Physics Express*, **2021**, 14, 045502	2.4	1
45	Promising Thermoelectric Performance in Two-Dimensional Semiconducting Boron Monolayer. *Frontiers in Chemistry*, **2021**, 9, 739984	5	
44	Pnma metal hydride system LiBH: a superior topological semimetal with the coexistence of twofold and quadruple degenerate topological nodal lines. *Journal of Physics Condensed Matter*, **2020**, 32, 365502	1.8	5
43	The important role of strain on phonon hydrodynamics in diamond-like bi-layer graphene. *Nanotechnology*, **2020**, 31, 335711	3.4	16
42	Spin Seebeck effect in bipolar magnetic semiconductor: A case of magnetic MoS nanotube. *Journal of Advanced Research*, **2020**, 24, 391-396	13	5
41	Diverse topological states in a ternary NdAsPd compound. *Journal of Materials Chemistry C*, **2020**, 8, 7741-7748	7.1	4
40	Phonon stability and phonon transport of graphene-like borophene. *Nanotechnology*, **2020**, 31, 315709	3.4	18
39	Intersecting nodal rings in orthorhombic-type BaLi2Sn compound. *Journal of Materials Chemistry C*, **2020**, 8, 5461-5466	7.1	9
38	Rich topological nodal line bulk states together with drum-head-like surface states in NaAlGe with -PbFCl type structure. *Journal of Advanced Research*, **2020**, 23, 95-100	13	21
37	Novel topological nodal lines and exotic drum-head-like surface states in synthesized CsCl-type binary alloy TiOs. *Journal of Advanced Research*, **2020**, 22, 137-144	13	26
36	Unique topological nodal line states and associated exceptional thermoelectric power factor platform in NbGeTe monolayer and bulk. *Nanoscale*, **2020**, 12, 16910-16916	7.7	11
35	A comparative study of thermoelectric properties between bulk and monolayer SnSe. *Results in Physics*, **2019**, 15, 102631	3.7	13
34	Two-dimensional honeycomb borophene oxide: strong anisotropy and nodal loop transformation. *Nanoscale*, **2019**, 11, 2468-2475	7.7	62
33	Origins of promising thermoelectric performance in quaternary selenide BaAg2SnSe4. *Applied Physics Express*, **2019**, 12, 071006	2.4	3
32	Transition metal-doped janus monolayer SMoSe with excellent thermal spin filter and spin Seebeck effect. *Applied Surface Science*, **2019**, 491, 750-756	6.7	11
31	Bilayer MSe (M= Zr, Hf) as promising two-dimensional thermoelectric materials: a first-principles study.. *RSC Advances*, **2019**, 9, 12394-12403	3.7	14

30	From Two- to Three-Dimensional van der Waals Layered Structures of Boron Crystals: An Ab Initio Study. *ACS Omega*, **2019**, 4, 8015-8021	3.9	6
29	Remarkably enhanced ferromagnetism in a super-exchange governed Cr2Ge2Te6 monolayer via molecular adsorption. *Journal of Materials Chemistry C*, **2019**, 7, 5084-5093	7.1	32
28	Three-dimensional graphene networks modified with acetylenic linkages for high-performance optoelectronics and Li-ion battery anode material. *Carbon*, **2019**, 154, 478-484	10.4	9
27	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. *IUCrJ*, **2019**, 6, 990-995	4.7	10
26	CrTiC-based double MXenes: novel 2D bipolar antiferromagnetic semiconductor with gate-controllable spin orientation toward antiferromagnetic spintronics. *Nanoscale*, **2018**, 11, 356-364	7.7	77
25	Review of thermal transport and electronic properties of borophene. *Chinese Physics B*, **2018**, 27, 036303	1.2	18
24	Monolayer PdSe: A promising two-dimensional thermoelectric material. *Scientific Reports*, **2018**, 8, 2764	4.9	94
23	Engineering of charge carriers via a two-dimensional heterostructure to enhance the thermoelectric figure of merit. *Nanoscale*, **2018**, 10, 7077-7084	7.7	44
22	Stretch-Driven Increase in Ultrahigh Thermal Conductance of Hydrogenated Borophene and Dimensionality Crossover in Phonon Transmission. *Advanced Functional Materials*, **2018**, 28, 1801685	15.6	58
21	Low lattice thermal conductivity and promising thermoelectric figure of merit of Zintl type TlInTe2. *Journal of Materials Chemistry C*, **2018**, 6, 13269-13274	7.1	18
20	Electron and phonon transport properties of layered Bi2O2Se and Bi2O2Te from first-principles calculations. *New Journal of Physics*, **2018**, 20, 123014	2.9	32
19	Probing the Physical Origin of Anisotropic Thermal Transport in Black Phosphorus Nanoribbons. *Advanced Materials*, **2018**, 30, e1804928	24	31
18	Two-dimensional MoS2-MoSe2 lateral superlattice with minimized lattice thermal conductivity. *Journal of Applied Physics*, **2018**, 124, 165101	2.5	15
17	Thermal spin transport properties based on VS2 monolayer: A first-principles study. *Journal of Alloys and Compounds*, **2017**, 701, 754-758	5.7	3
16	Strain-induced thermoelectric performance enhancement of monolayer ZrSe2. *RSC Advances*, **2017**, 7, 47243-47250	3.7	42
15	Half-metals and half-semiconductors in a transition metal doped SnSe2 monolayer: a first-principles study. *RSC Advances*, **2017**, 7, 44499-44504	3.7	20
14	Convergence of separate orbits for enhanced thermoelectric performance of layered ZrS2. *New Journal of Physics*, **2017**, 19, 073036	2.9	17
13	Multiple thermal spin transport performances of graphene nanoribbon heterojuction co-doped with Nitrogen and Boron. *Scientific Reports*, **2017**, 7, 3955	4.9	7

12	Thermoelectric properties of SnSe monolayer. *Journal of Physics Condensed Matter*, **2017**, 29, 015001	1.8	62
11	Prediction of large magnetoelectric coupling in Fe4N/BaTiO3 and MnFe3N/BaTiO3 junctions from a first-principles study. *RSC Advances*, **2016**, 6, 29504-29511	3.7	4
10	Ultralow lattice thermal conductivity in topological insulator TlBiSe2. *Applied Physics Letters*, **2016**, 108, 233902	3.4	19
9	Thermoelectric properties of half-Heusler topological insulators MPtBi (M = Sc, Y, La) induced by strain. *Journal of Applied Physics*, **2016**, 119, 025105	2.5	35
8	Monolayer MXenes: promising half-metals and spin gapless semiconductors. *Nanoscale*, **2016**, 8, 8986-94	7.7	265
7	Thermoelectric properties of monolayer MSe2 (M□=□Zr, Hf): low lattice thermal conductivity and a promising figure of merit. *Nanotechnology*, **2016**, 27, 375703	3.4	86
6	High-efficient thermoelectric materials: The case of orthorhombic IV-VI compounds. *Scientific Reports*, **2015**, 5, 9567	4.9	139
5	Band structure engineering of multiple band degeneracy for enhanced thermoelectric power factors in MTe and MSe (M = Pb, Sn, Ge). *RSC Advances*, **2015**, 5, 91974-91978	3.7	15
4	Examining the thermal conductivity of the half-Heusler alloy TiNiSn by first-principles calculations. *Journal Physics D: Applied Physics*, **2015**, 48, 235302	3	26
3	Thermoelectric performance of half-Heusler compounds MYSb (M= Ni, Pd, Pt). *Journal Physics D: Applied Physics*, **2014**, 47, 385305	3	24
2	Abnormal thermal conductivity enhancement in covalently bonded bilayer borophene allotrope. *Nano Research*,1	10	3
1	Investigation of nodal line spin-gapless semiconductors using first-principles calculations. *Journal of Materials Chemistry C*,	7.1	1