Hong Chen

List of Publications by Year in Descending Order

37 papers	405 citations	12 h-index	19 g-index
42 ext. papers	582 ext. citations	4.1 avg, IF	4.05 L-index

#	Paper	IF	Citations
37	Spin transport properties of highly lattice-matched all-Heusler-alloy magnetic tunnel junction. *Journal of Applied Physics*, **2022**, 131, 133901	2.5	1
36	Hybrid-type nodal ring phonons and coexistence of higher-order quadratic nodal line phonons in an AgZr alloy. *Physical Review B*, **2021**, 104,	3.3	7
35	Buckled hexagonal carbon selenium nanosheet for thermoelectric performance. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1	2.6	1
34	Superior thermoelectric performance of □Se2Te monolayer. *Materials Research Express*, **2021**, 8, 045507	1.7	1
33	Theoretical insight into two-dimensional g-C6N6/InSe van der Waals Heterostructure: A promising visible-light photocatalyst. *Applied Surface Science*, **2021**, 554, 149465	6.7	3
32	Lead-free perovskite compounds CsSnGeIBr explored for superior visible-light absorption. *Physical Chemistry Chemical Physics*, **2021**, 23, 14449-14456	3.6	2
31	Predicted hexagonal titanium nitride monolayer as an intrinsic ferromagnetic semiconductor. *EPJ Applied Physics*, **2021**, 95, 10601	1.1	0
30	Charge-compensated codoped pseudohexagonal zinc selenide nanosheets towards enhanced visible-light-driven photocatalytic water splitting for hydrogen production. *International Journal of Hydrogen Energy*, **2021**, 46, 34305-34317	6.7	1
29	Theoretical insight into the CdS/FAPbI3 heterostructure: a promising visible-light absorber. *New Journal of Chemistry*, **2021**, 45, 4393-4400	3.6	4
28	Strain tuning of closed topological nodal lines and opposite pockets in quasi-two-dimensional □phase FeSi. *Physical Chemistry Chemical Physics*, **2020**, 22, 13650-13658	3.6	10
27	Thermoelectric Properties of NiCl Monolayer: A First-Principles-Based Transport Study. *Nanomaterials*, **2020**, 10,	5.4	2
26	Rich novel zero-dimensional (0D), 1D, and 2D topological elements predicted in the P6/m type ternary boride HfIrB. *Nanoscale*, **2020**, 12, 8314-8319	7.7	14
25	Direct Z-scheme photocatalytic overall water splitting on two dimensional MoSe2/SnS2 heterojunction. *International Journal of Hydrogen Energy*, **2020**, 45, 2785-2793	6.7	23
24	Band gap and magnetic engineering of penta-graphene adsorption of small transition clusters. *Physical Chemistry Chemical Physics*, **2020**, 22, 26155-26166	3.6	3
23	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
22	Effects of Ga substitution on electronic and thermoelectric properties of gapless semiconductor VAl.. *RSC Advances*, **2019**, 9, 3847-3855	3.7	3
21	Two dimensional InSe/C2N van der Waals heterojunction as enhanced visible-light-responsible photocatalyst for water splitting. *Applied Surface Science*, **2019**, 485, 375-380	6.7	36

20	Electronic and optical properties of perovskite compounds MA FA PbI X (X = Cl, Br) explored for photovoltaic applications.. *RSC Advances*, **2019**, 9, 7015-7024	3.7	10
19	Giant magnetoresistance ratio in a current-perpendicular-to-plane spin valve based on an inverse Heusler alloy TiNiAl. *Beilstein Journal of Nanotechnology*, **2019**, 10, 1658-1665	3	1
18	Thermoelectric Performance of Two-Dimensional AlX (X = S, Se, Te): A First-Principles-Based Transport Study. *ACS Omega*, **2019**, 4, 17773-17781	3.9	27
17	Passivating Surface States on Water Splitting Cuprous Oxide Photocatalyst with Bismuth Decoration. *Molecules*, **2019**, 24,	4.8	1
16	Bilayer MoSe/HfS Nanocomposite as a Potential Visible-Light-Driven Z-Scheme Photocatalyst. *Nanomaterials*, **2019**, 9,	5.4	12
15	Enhanced Stability and Optical Absorption in the Perovskite-Based Compounds MA Cs PbI Br. *ChemPhysChem*, **2019**, 20, 489-498	3.2	4
14	Thickness and composition dependencies of magnetization and perpendicular magnetic anisotropy of Heusler-like alloys based MnxGa|Co2FeAl superlattices. *Journal of Alloys and Compounds*, **2019**, 773, 327-337	5.7	5
13	Band gap engineering of SnS nanosheets by anion-anion codoping for visible-light photocatalysis.. *RSC Advances*, **2018**, 8, 3304-3311	3.7	26
12	ZnO/MoX (X = S, Se) composites used for visible light photocatalysis.. *RSC Advances*, **2018**, 8, 10828-10835	3.7	24
11	The mixing effect of organic cations on the structural, electronic and optical properties of FAMAPbI perovskites. *Physical Chemistry Chemical Physics*, **2018**, 20, 941-950	3.6	19
10	Theoretical Insights into Perovskite Compounds MAPb1XBY (X = Ge, Sn; Y = Cl, Br): An Exploration for Superior Optical Performance. *Journal of Physical Chemistry C*, **2018**, 122, 27205-27213	3.8	5
9	Theoretical investigation on thermoelectric properties of spin gapless semiconductor (hbox {Cr}_{2}hbox {ZnSi}). *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	7
8	Efficient charge separation and visible-light response in bilayer HfS-based van der Waals heterostructures.. *RSC Advances*, **2018**, 8, 18889-18895	3.7	16
7	A two-dimensional layered CdS/CN heterostructure for visible-light-driven photocatalysis. *Physical Chemistry Chemical Physics*, **2017**, 19, 28216-28224	3.6	57
6	New insights into the electronic structures and optical properties in the orthorhombic perovskite MAPbI3: a mixture of Pb and Ge/Sn. *New Journal of Chemistry*, **2017**, 41, 11413-11421	3.6	23
5	Thermoelectric properties of DO3 V3Al using first principles calculations. *RSC Advances*, **2017**, 7, 44647-44654	3.7	7
4	Bandgap engineering of SrTiO3/NaTaO3 heterojunction for visible light photocatalysis. *International Journal of Quantum Chemistry*, **2017**, 117, e25424	2.1	8
3	Bandgap Engineering of the g-ZnO Nanosheet via Cationic–Anionic Passivated Codoping for Visible-Light-Driven Photocatalysis. *Journal of Physical Chemistry C*, **2017**, 121, 18534-18543	3.8	25

2	Alloy Engineering of 2D Van der Waals Chromium Mixed Trihalides as Ferromagnetic Semiconductors. *Physica Status Solidi (B): Basic Research*,2100443	1.3	
1	Investigation of nodal line spin-gapless semiconductors using first-principles calculations. *Journal of Materials Chemistry C*,	7.1	1