

Xiaoming Zhang

List of Publications by Year in Descending Order

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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

1,992
citations

23
h-index

44
g-index

50
ext. papers

2,411
ext. citations

5.7
avg, IF

5.25
L-index

#	Paper	IF	Citations
48	Binary pentagonal auxetic materials for photocatalysis and energy storage with outstanding performances.. <i>Nanoscale</i> , 2022 ,	7.7	5
47	Prediction of intrinsic topological superconductivity in Mn-doped GeTe monolayer from first-principles. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	2
46	Prediction of Majorana edge states from magnetized topological surface states. <i>Physical Review B</i> , 2021 , 103,	3.3	4
45	Inversion/Mirror Symmetry-Protected Dirac Cones in Distorted Ruby Lattices. <i>Chinese Physics Letters</i> , 2020 , 37, 127102	1.8	0
44	First-principles study of bulk and two-dimensional structures of the AMnBi family of materials (A=K,Rb,Cs). <i>Physical Review B</i> , 2020 , 102,	3.3	1
43	Fully spin-polarized double-Weyl fermions with type-III dispersion in the quasi-one-dimensional materials X ₂ RhF ₆ (X=K, Rb, Cs). <i>Physical Review B</i> , 2020 , 102,	3.3	9
42	Enhancing superconductivity in bulk Bi ₂ Pd by negative pressure induced by quantum electronic stress. <i>Physical Review B</i> , 2019 , 100,	3.3	2
41	Dirac cones in a snub trihexagonal tiling lattice with reflective symmetry breaking. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 155001	1.8	1
40	Valley polarization and ferroelectricity in a two-dimensional GaAsC monolayer. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3954-3959	3.6	6
39	Hyperbolic dispersion and negative refraction in a metal-organic framework Cu-BHT. <i>Physical Review Materials</i> , 2019 , 3,	3.2	7
38	Tunable broadband hyperbolic light dispersion in metal diborides. <i>Optics Express</i> , 2019 , 27, 36911-36922,3	3.3	6
37	Serendipity of a topological nontrivial band gap in the 2D borophene subunit lattice with broken mirror symmetry. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22526-22530	3.6	1
36	Strain-induced tunable negative differential resistance in triangle graphene spirals. <i>Nanotechnology</i> , 2018 , 29, 205202	3.4	3
35	Novel Conductive Metal-Organic Framework for a High-Performance Lithium-Sulfur Battery Host: 2D Cu-Benzenehexathial (BHT). <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15012-15020	9.5	71
34	Kane Fermion in a Two-Dimensional EConjugated Bis(iminothiolato)nickel Monolayer. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 614-619	6.4	14
33	ZrSi: an antiferromagnetic Dirac MXene. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3946-3952	3.6	10
32	Two-Dimensional MetalOrganic Half-metallic Antiferromagnet: CoFePz. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1846-1851	3.8	14

31	Valley-selective circular dichroism and high carrier mobility of graphene-like BCN. <i>Nanoscale</i> , 2018 , 10, 13179-13186	7.7	22
30	Electronic properties of a E-conjugated Cairo pentagonal lattice: Direct band gap, ultrahigh carrier mobility, and slanted Dirac cones. <i>Physical Review B</i> , 2018 , 98,	3.3	13
29	Dirac node lines in two-dimensional Lieb lattices. <i>Nanoscale</i> , 2017 , 9, 8740-8746	7.7	27
28	Theoretical Discovery of a Superconducting Two-Dimensional Metal-Organic Framework. <i>Nano Letters</i> , 2017 , 17, 6166-6170	11.5	56
27	Chern Insulator and Chern Half-Metal States in the Two-Dimensional Spin-Gapless Semiconductor MnCS. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3770-3775	6.4	24
26	A promising alkali-metal ion battery anode material: 2D metallic phosphorus carbide (0-PC). <i>Electrochimica Acta</i> , 2017 , 258, 582-590	6.7	26
25	Tunable Dirac cones in two-dimensional covalent organic materials: C ₂ N ₆ S ₃ and its analogs. <i>RSC Advances</i> , 2017 , 7, 52065-52070	3.7	6
24	Dirac cones and highly anisotropic electronic structure of super-graphyne. <i>Carbon</i> , 2017 , 113, 40-45	10.4	23
23	Theoretical prediction of MoN ₂ monolayer as a high capacity electrode material for metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15224-15231	13	154
22	Borophene as an extremely high capacity electrode material for Li-ion and Na-ion batteries. <i>Nanoscale</i> , 2016 , 8, 15340-7	7.7	272
21	Tunable topological states in electron-doped HTT-Pt. <i>Physical Review B</i> , 2016 , 93,	3.3	32
20	Forming heterojunction: an effective strategy to enhance the photocatalytic efficiency of a new metal-free organic photocatalyst for water splitting. <i>Scientific Reports</i> , 2016 , 6, 29327	4.9	19
19	Spin-polarized Dirac cones and topological nontriviality in a metal-organic framework Ni ₂ C ₂₄ S ₆ H ₁₂ . <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8059-64	3.6	38
18	Gas Adsorption Effects on the Electronic Properties of Two-Dimensional Nickel Bis(dithiolene) Complex. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3846-3852	3.8	29
17	Tunable C ₂ N Membrane for High Efficient Water Desalination. <i>Scientific Reports</i> , 2016 , 6, 29218	4.9	53
16	Prediction of an ultrasoft graphene allotrope with Dirac cones. <i>Carbon</i> , 2016 , 105, 323-329	10.4	42
15	Prediction of quantum anomalous Hall effect on graphene nanomesh. <i>RSC Advances</i> , 2015 , 5, 9875-9880	3.7	24
14	Driving a GaAs film to a large-gap topological insulator by tensile strain. <i>Scientific Reports</i> , 2015 , 5, 8441	4.9	50

13	Electron spin-polarization and band gap engineering in carbon-modified graphitic carbon nitrides. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10886-10891	7.1	12
12	Phagraphene: A Low-Energy Graphene Allotrope Composed of 5-6-7 Carbon Rings with Distorted Dirac Cones. <i>Nano Letters</i> , 2015 , 15, 6182-6	11.5	325
11	Spin-gapless semiconducting graphitic carbon nitrides: A theoretical design from first principles. <i>Carbon</i> , 2015 , 84, 1-8	10.4	61
10	Strain-driven band inversion and topological aspects in Antimonene. <i>Scientific Reports</i> , 2015 , 5, 16108	4.9	166
9	Robust half-metallicity and topological aspects in two-dimensional Cu-TPyB. <i>Scientific Reports</i> , 2015 , 5, 14098	4.9	24
8	Giant topological nontrivial band gaps in chloridized gallium bismuthide. <i>Nano Letters</i> , 2015 , 15, 1296-3011	11.5	81
7	Strain-induced phase transition and electron spin-polarization in graphene spirals. <i>Scientific Reports</i> , 2014 , 4, 5699	4.9	11
6	Electron spin-polarization and spin lattices in the boron- and nitrogen-doped organic framework COF-5. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23286-91	3.6	14
5	Topological insulator states in a honeycomb lattice of s-triazines. <i>Nanoscale</i> , 2014 , 6, 11157-62	7.7	65
4	First-principles prediction of a new Dirac-fermion material: silicon germanide monolayer. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 395501	1.8	23
3	Spin-polarization and ferromagnetism of graphitic carbon nitride materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6265	7.1	71
2	Half-metallicity of a kagome spin lattice: the case of a manganese bis-dithiolene monolayer. <i>Nanoscale</i> , 2013 , 5, 10404-8	7.7	72
1	Investigation of nodal line spin-gapless semiconductors using first-principles calculations. <i>Journal of Materials Chemistry C</i> ,	7.1	1