

# Yi Ding

## 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.

67

papers

3,211

citations

27

h-index

56

g-index

68

ext. papers

3,551

ext. citations

4

avg, IF

5.95

L-index

#	Paper	IF	Citations
67	First-principles study of two-dimensional MoN <sub>2</sub> X <sub>2</sub> Y <sub>2</sub> (X=B~In, Y=N~Te) nanosheets: The IIIIV analogues of MoSi <sub>2</sub> N <sub>4</sub> with peculiar electronic and magnetic properties. <i>Applied Surface Science</i> , <b>2022</b> , 593, 153317	6.7	0
66	Switchable valley polarization and quantum anomalous Hall state in the VN <sub>2</sub> X <sub>2</sub> Y <sub>2</sub> nanosheets (X = group-III and Y = group-VI elements). <i>Applied Physics Letters</i> , <b>2021</b> , 119, 193101	3.4	1
65	First-principles study of bilayer hexagonal structure of SN <sub>2</sub> nanosheet: a highly stable non-metal platform for the quantum anomalous Hall effect. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5961-5969	7.1	1
64	Computational Exploration of Stable 4d/5d Transition-Metal MSi <sub>2</sub> N <sub>4</sub> (M = Y and Hf) Nanosheets and Their Versatile Electronic and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 19580-19591	3.8	3
63	Intrinsic ferromagnetism and valley polarization in hydrogenated group V transition-metal dinitride (MNH, M = V/Nb/Ta) nanosheets: insights from first-principles. <i>Nanoscale</i> , <b>2020</b> , 12, 1002-1012	7.7	9
62	Stable puckered C <sub>2</sub> N <sub>2</sub> nanosheet with giant anisotropic hole carrier mobility: insights from first-principles. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15655-15663	7.1	1
61	Large-Gap Quantum Spin Hall States in the Bilayer Hexagonal Structure of Rhenium and Technetium Dinitrides: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 25524-25530	3.8	3
60	Stabilizing the isolated Sn <sub>2</sub> Bi nanosheet and tailoring its electronic structure by chemical functionalization: A computational study. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 073103	3.4	8
59	Tunable electronic and magnetic properties of graphene-like XYBe (XY = BN, AlN, SiC, GeC) nanosheets with carrier doping: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 6830-6837	3.6	5
58	A first-principles study of a real energetically stable MoN <sub>2</sub> nanosheet and its tunable electronic structure. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2245-2251	7.1	16
57	Stable H-Terminated Edges, Variable Semiconducting Properties, and Solar Cell Applications of CN Nanoribbons: A First-Principles Study. <i>ACS Omega</i> , <b>2018</b> , 3, 8777-8786	3.9	6
56	Tunable Electronic Structures of Hydrogenated Zigzag and Armchair Dumbbell Silicene Nanosheets: A Computational Study. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 23208-23216	3.8	8
55	Uncovering a Stable Phase in Group V Transition-metal Dinitride (MN <sub>2</sub> , M = Ta, Nb, V) Nanosheets and Their Electronic Properties via First-principles Investigations. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 26748-26755	3.8	15
54	Structural stability and the electronic properties of a (SiH) <sub>2</sub> O-formed siloxene sheet: a computational study. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 18030-18035	3.6	5
53	Lattice thermal conductivities and thermoelectric performances of binary tin-based sheets: A computational study. <i>Applied Surface Science</i> , <b>2017</b> , 396, 1164-1169	6.7	6
52	Surface functionalization of molybdenum dinitride nanosheets by halogen and alkali atoms: a first-principles study. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 683-689	7.1	8
51	Intrinsic magnetism and electronic structure of graphene-like Be <sub>3</sub> C <sub>2</sub> nanoribbons and their Si, Ge analogues: a computational study. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10728-10736	7.1	9

50	The hydrogen-induced structural stability and promising electronic properties of molybdenum and tungsten dinitride nanosheets: a first-principles study. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 7485-7493	7.1	24
49	An enzyme-copper nanoparticle hybrid catalyst prepared from disassembly of an enzyme-organic nanocrystal three-dimensional nanostructure. <i>RSC Advances</i> , <b>2016</b> , 6, 20772-20776	3.7	26
48	Enhanced piezoelectricity and half-metallicity of fluorinated AlN nanosheets and nanoribbons: a first-principles study. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1517-1526	7.1	16
47	Electronic structure and topological features of tin-based binary nanosheets and their hydrogenated/fluorinated derivatives: A first-principles study. <i>Applied Surface Science</i> , <b>2016</b> , 382, 1-9	6.7	8
46	Highly active, stable and self-antimicrobial enzyme catalysts prepared by biomimetic mineralization of copper hydroxysulfate. <i>Nanoscale</i> , <b>2016</b> , 8, 17440-17445	7.7	52
45	Tunable electronic structures of germanium monochalcogenide nanosheets via light non-metallic atom functionalization: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 23080-8	3.6	16
44	Electronic Structure and Carrier Mobilities of Arsenene and Antimonene Nanoribbons: A First-Principle Study. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 955	5	117
43	Structural, Electronic, and Magnetic Properties of Adatom Adsorptions on Black and Blue Phosphorene: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10610-10622	3.8	167
42	The electronic structures of group-V-group-IV hetero-bilayer structures: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 27769-76	3.6	45
41	Hydrogen-induced stabilization and tunable electronic structures of penta-silicene: a computational study. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 11341-11348	7.1	65
40	Unexpected buckled structures and tunable electronic properties in arsenic nanosheets: insights from first-principles calculations. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 225304	1.8	32
39	Quasi-Free-Standing Features of Stanene/Stanane on InSe and GaTe Nanosheets: A Computational Study. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 27848-27854	3.8	22
38	Unusual structural and electronic properties of porous silicene and germanene: insights from first-principles calculations. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 13	5	22
37	Electronic structures of reconstructed zigzag silicene nanoribbons. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 083111	3.4	40
36	First-principles study of the electronic and magnetic properties of 4-8 line-defect-embedded BN sheets decorated with transition metals. <i>Annalen Der Physik</i> , <b>2014</b> , 526, 415-422	2.6	16
35	Tunable magnetic and electronic properties of BN nanosheets with triangular defects: a first-principles study. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 435302	1.8	6
34	Anisotropic elastic behaviour and one-dimensional metal in phosphorene. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 939-942	2.5	24
33	Geometric and Electronic Structures of Two-Dimensional SiC <sub>3</sub> Compound. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 4509-4515	3.8	63

32	Electronic structures of silicene/GaS heterosheets. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 043114	3.4	91
31	Density Functional Theory Study of the Silicene-like SiX and XSi3 (X = B, C, N, Al, P) Honeycomb Lattices: The Various Buckled Structures and Versatile Electronic Properties. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 18266-18278	3.8	185
30	Strain-induced self-doping in silicene and germanene from first-principles. <i>Solid State Communications</i> , <b>2013</b> , 155, 6-11	1.6	114
29	Mechanical and electronic properties of stoichiometric silicene and germanene oxides from first-principles. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2013</b> , 7, 410-413	2.5	33
28	Structural, Electronic, and Magnetic Properties of the Semifluorinated Boron Nitride Bilayer: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 3114-3121	3.8	11
27	Electronic structures of zigzag silicene nanoribbons with asymmetric sp <sup>2</sup> sp <sup>3</sup> edges. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 143115	3.4	67
26	First-principles study of the triwing graphene nanoribbons: junction-dependent electronic structures and electric field modulations. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 2040-9	3.6	3
25	Electronic structures of silicene fluoride and hydride. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 083102	3.4	150
24	Stereo Boron Nitride Nanoribbons with Junction-Dependent Electronic Structures from First-Principles. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5995-6003	3.8	12
23	Electronic structures of zigzag SiC nanoribbons with asymmetric hydrogen-terminations. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 013102	3.4	39
22	Electronic structure of fluorinated and hydrogenated beryllium monoxide nanostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2012</b> , 6, 83-85	2.5	7
21	Electronic structures of Fe-terminated armchair boron nitride nanoribbons. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 053123	3.4	22
20	First-principles study of half-metallicity in semi-hydrogenated BC <sub>3</sub> , BC <sub>5</sub> , BC <sub>7</sub> , and B-doped graphone sheets. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 190	5	20
19	Electronic Structures of Porous Graphene, BN, and BC <sub>2</sub> N Sheets with One- and Two-Hydrogen Passivations from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5334-5343	3.8	47
18	First principles study of structural, vibrational and electronic properties of graphene-like MX <sub>2</sub> (M=Mo, Nb, W, Ta; X=S, Se, Te) monolayers. <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 2254-2260	2.8	495
17	Electronic structures of graphane sheets with foreign atom substitutions. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 163104	3.4	31
16	Fluorination-induced half-metallicity in zigzag boron nitride nanoribbons: First-principles calculations. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	62
15	Electronic structures of fully fluorinated and semifluorinated zinc oxide sheets. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 213117	3.4	24

14	Structural, Electronic, and Magnetic Properties of Defects in the BC <sub>3</sub> Sheet from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 12416-12421	3.8	32
13	Electronic structures of BC <sub>3</sub> nanoribbons. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 073111	3.4	50
12	Ground-state phase diagram of Na(x)CoO(2): correlation of Na ordering with CoO(2) stacking sequences. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 035401	1.8	15
11	Electronic properties of boron nanotubes with axial strain. <i>Frontiers of Physics in China</i> , <b>2009</b> , 4, 383-388		5
10	Electronic and magnetic properties of 3d transition-metal selenides from first principles. <i>Solid State Communications</i> , <b>2009</b> , 149, 505-509	1.6	19
9	First-principles study of pressure effects on and. <i>Solid State Communications</i> , <b>2009</b> , 149, 2125-2129	1.6	11
8	Tuning Electronic Properties of Hydro-Boron-Carbon Compounds by Hydrogen and Boron Contents: A First Principles Study. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 18468-18472	3.8	33
7	Electronic structures of silicon nanoribbons. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 083115	3.4	259
6	Electronic properties of graphene nanoribbons embedded in boron nitride sheets. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 123105	3.4	111
5	The stabilities of boron nitride nanoribbons with different hydrogen-terminated edges. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 233107	3.4	70
4	Electronic structures of boron nanoribbons. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 043107	3.4	39
3	Ab initio prediction of stable boron sheets and boron nanotubes: Structure, stability, and electronic properties. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	280
2	Adsorption on the carbon nanotubes. <i>Frontiers of Physics in China</i> , <b>2006</b> , 1, 317-322		5
1	Ground states of diatomic molecules adsorbed on single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	4