

Yi Ding

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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 structural, vibrational and electronic properties of graphene-like MX ₂ (M=Mo, Nb, W, Ta; X=S, Se, Te) monolayers. <i>Physica B: Condensed Matter</i> , 2011 , 406, 2254-2260	2.8	495
66	Ab initio prediction of stable boron sheets and boron nanotubes: Structure, stability, and electronic properties. <i>Physical Review B</i> , 2008 , 77,	3.3	280
65	Electronic structures of silicon nanoribbons. <i>Applied Physics Letters</i> , 2009 , 95, 083115	3.4	259
64	Density Functional Theory Study of the Silicene-like SiX and XSi ₃ (X = B, C, N, Al, P) Honeycomb Lattices: The Various Buckled Structures and Versatile Electronic Properties. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18266-18278	3.8	185
63	Structural, Electronic, and Magnetic Properties of Adatom Adsorptions on Black and Blue Phosphorene: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10610-10622	3.8	167
62	Electronic structures of silicene fluoride and hydride. <i>Applied Physics Letters</i> , 2012 , 100, 083102	3.4	150
61	Electronic Structure and Carrier Mobilities of Arsenene and Antimonene Nanoribbons: A First-Principle Study. <i>Nanoscale Research Letters</i> , 2015 , 10, 955	5	117
60	Strain-induced self-doping in silicene and germanene from first-principles. <i>Solid State Communications</i> , 2013 , 155, 6-11	1.6	114
59	Electronic properties of graphene nanoribbons embedded in boron nitride sheets. <i>Applied Physics Letters</i> , 2009 , 95, 123105	3.4	111
58	Electronic structures of silicene/GaS heterosheets. <i>Applied Physics Letters</i> , 2013 , 103, 043114	3.4	91
57	The stabilities of boron nitride nanoribbons with different hydrogen-terminated edges. <i>Applied Physics Letters</i> , 2009 , 94, 233107	3.4	70
56	Electronic structures of zigzag silicene nanoribbons with asymmetric sp ² sp ³ edges. <i>Applied Physics Letters</i> , 2013 , 102, 143115	3.4	67
55	Hydrogen-induced stabilization and tunable electronic structures of penta-silicene: a computational study. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11341-11348	7.1	65
54	Geometric and Electronic Structures of Two-Dimensional SiC ₃ Compound. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4509-4515	3.8	63
53	Fluorination-induced half-metallicity in zigzag boron nitride nanoribbons: First-principles calculations. <i>Physical Review B</i> , 2010 , 81,	3.3	62
52	Highly active, stable and self-antimicrobial enzyme catalysts prepared by biomimetic mineralization of copper hydroxysulfate. <i>Nanoscale</i> , 2016 , 8, 17440-17445	7.7	52
51	Electronic structures of BC ₃ nanoribbons. <i>Applied Physics Letters</i> , 2009 , 94, 073111	3.4	50

50	Electronic Structures of Porous Graphene, BN, and BC ₂ N Sheets with One- and Two-Hydrogen Passivations from First Principles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5334-5343	3.8	47
49	The electronic structures of group-V-group-IV hetero-bilayer structures: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27769-76	3.6	45
48	Electronic structures of reconstructed zigzag silicene nanoribbons. <i>Applied Physics Letters</i> , 2014 , 104, 083111	3.4	40
47	Electronic structures of zigzag SiC nanoribbons with asymmetric hydrogen-terminations. <i>Applied Physics Letters</i> , 2012 , 101, 013102	3.4	39
46	Electronic structures of boron nanoribbons. <i>Applied Physics Letters</i> , 2008 , 93, 043107	3.4	39
45	Mechanical and electronic properties of stoichiometric silicene and germanene oxides from first-principles. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 410-413	2.5	33
44	Tuning Electronic Properties of Hydro-Boron-Carbon Compounds by Hydrogen and Boron Contents: A First Principles Study. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18468-18472	3.8	33
43	Unexpected buckled structures and tunable electronic properties in arsenic nanosheets: insights from first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 225304	1.8	32
42	Structural, Electronic, and Magnetic Properties of Defects in the BC ₃ Sheet from First Principles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12416-12421	3.8	32
41	Electronic structures of graphene sheets with foreign atom substitutions. <i>Applied Physics Letters</i> , 2011 , 98, 163104	3.4	31
40	An enzyme-copper nanoparticle hybrid catalyst prepared from disassembly of an enzyme-organic nanocrystal three-dimensional nanostructure. <i>RSC Advances</i> , 2016 , 6, 20772-20776	3.7	26
39	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> , 2016 , 4, 7485-7493	3.1	24
38	Anisotropic elastic behaviour and one-dimensional metal in phosphorene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 939-942	2.5	24
37	Electronic structures of fully fluorinated and semifluorinated zinc oxide sheets. <i>Applied Physics Letters</i> , 2010 , 96, 213117	3.4	24
36	Quasi-Free-Standing Features of Stanene/Stanane on InSe and GaTe Nanosheets: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27848-27854	3.8	22
35	Unusual structural and electronic properties of porous silicene and germanene: insights from first-principles calculations. <i>Nanoscale Research Letters</i> , 2015 , 10, 13	5	22
34	Electronic structures of Fe-terminated armchair boron nitride nanoribbons. <i>Applied Physics Letters</i> , 2011 , 99, 053123	3.4	22
33	First-principles study of half-metallicity in semi-hydrogenated BC ₃ , BC ₅ , BC ₇ , and B-doped graphone sheets. <i>Nanoscale Research Letters</i> , 2011 , 6, 190	5	20

32	Electronic and magnetic properties of 3d transition-metal selenides from first principles. <i>Solid State Communications</i> , 2009 , 149, 505-509	1.6	19
31	A first-principles study of a real energetically stable MoN ₂ nanosheet and its tunable electronic structure. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2245-2251	7.1	16
30	Enhanced piezoelectricity and half-metallicity of fluorinated AlN nanosheets and nanoribbons: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1517-1526	7.1	16
29	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> , 2014 , 526, 415-422	2.6	16
28	Tunable electronic structures of germanium monochalcogenide nanosheets via light non-metallic atom functionalization: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 23080-8	3.6	16
27	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> , 2009 , 21, 035401	1.8	15
26	Uncovering a Stable Phase in Group V Transition-metal Dinitride (MN ₂ , M = Ta, Nb, V) Nanosheets and Their Electronic Properties via First-principles Investigations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26748-26755	3.8	15
25	Stereo Boron Nitride Nanoribbons with Junction-Dependent Electronic Structures from First-Principles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5995-6003	3.8	12
24	Structural, Electronic, and Magnetic Properties of the Semifluorinated Boron Nitride Bilayer: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3114-3121	3.8	11
23	First-principles study of pressure effects on and. <i>Solid State Communications</i> , 2009 , 149, 2125-2129	1.6	11
22	Intrinsic magnetism and electronic structure of graphene-like Be ₃ C ₂ nanoribbons and their Si, Ge analogues: a computational study. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10728-10736	7.1	9
21	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> , 2020 , 12, 1002-1012	7.7	9
20	Surface functionalization of molybdenum dinitride nanosheets by halogen and alkali atoms: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 683-689	7.1	8
19	Stabilizing the isolated Sn ₂ Bi nanosheet and tailoring its electronic structure by chemical functionalization: A computational study. <i>Applied Physics Letters</i> , 2019 , 114, 073103	3.4	8
18	Electronic structure and topological features of tin-based binary nanosheets and their hydrogenated/fluorinated derivatives: A first-principles study. <i>Applied Surface Science</i> , 2016 , 382, 1-9	6.7	8
17	Tunable Electronic Structures of Hydrogenated Zigzag and Armchair Dumbbell Silicene Nanosheets: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23208-23216	3.8	8
16	Electronic structure of fluorinated and hydrogenated beryllium monoxide nanostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 83-85	2.5	7
15	Lattice thermal conductivities and thermoelectric performances of binary tin-based sheets: A computational study. <i>Applied Surface Science</i> , 2017 , 396, 1164-1169	6.7	6

14	Stable H-Terminated Edges, Variable Semiconducting Properties, and Solar Cell Applications of CN Nanoribbons: A First-Principles Study. <i>ACS Omega</i> , 2018 , 3, 8777-8786	3.9	6
13	Tunable magnetic and electronic properties of BN nanosheets with triangular defects: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 435302	1.8	6
12	Structural stability and the electronic properties of a (SiH)O-formed siloxene sheet: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18030-18035	3.6	5
11	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> , 2018 , 20, 6830-6837	3.6	5
10	Electronic properties of boron nanotubes with axial strain. <i>Frontiers of Physics in China</i> , 2009 , 4, 383-388		5
9	Adsorption on the carbon nanotubes. <i>Frontiers of Physics in China</i> , 2006 , 1, 317-322		5
8	Ground states of diatomic molecules adsorbed on single-walled carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	4
7	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> , 2019 , 123, 25524-25530	3.8	3
6	First-principles study of the triwing graphene nanoribbons: junction-dependent electronic structures and electric field modulations. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2040-9	3.6	3
5	Computational Exploration of Stable 4d/5d Transition-Metal MSi ₂ N ₄ (M = Y, Zr and Hf) Nanosheets and Their Versatile Electronic and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19580-19591	3.8	3
4	Switchable valley polarization and quantum anomalous Hall state in the VN ₂ X ₂ Y ₂ nanosheets (X = group-III and Y = group-VI elements). <i>Applied Physics Letters</i> , 2021 , 119, 193101	3.4	1
3	Stable puckered C ₂ N ₂ nanosheet with giant anisotropic hole carrier mobility: insights from first-principles. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15655-15663	7.1	1
2	First-principles study of bilayer hexagonal structure of SN ₂ nanosheet: a highly stable non-metal platform for the quantum anomalous Hall effect. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5961-5969	7.1	1
1	First-principles study of two-dimensional MoN ₂ X ₂ Y ₂ (X=B~In, Y=N~Te) nanosheets: The III-VI analogues of MoSi ₂ N ₄ with peculiar electronic and magnetic properties. <i>Applied Surface Science</i> , 2022 , 593, 153317	6.7	0