

Yi Ding

List of Publications by Year in descending order

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68
papers

3,844
citations

159358

30
h-index

123241

61
g-index

68
all docs

68
docs citations

68
times ranked

4520
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.3	613
2	<i>Ab initio</i> prediction of stable boron sheets and boron nanotubes: Structure, stability, and electronic properties. <i>Physical Review B</i> , 2008, 77, .	1.1	315
3	Electronic structures of silicon nanoribbons. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	276
4	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.	1.5	271
5	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.	1.5	196
6	Electronic structures of silicene fluoride and hydride. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	165
7	Electronic Structure and Carrier Mobilities of Arsenene and Antimonene Nanoribbons: A First-Principle Study. <i>Nanoscale Research Letters</i> , 2015, 10, 955.	3.1	137
8	Strain-induced self-doping in silicene and germanene from first-principles. <i>Solid State Communications</i> , 2013, 155, 6-11.	0.9	131
9	Electronic properties of graphene nanoribbons embedded in boron nitride sheets. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	123
10	Electronic structures of silicene/GaS heterosheets. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	105
11	Hydrogen-induced stabilization and tunable electronic structures of penta-silicene: a computational study. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11341-11348.	2.7	85
12	Electronic structures of zigzag silicene nanoribbons with asymmetric sp ² ~sp ³ edges. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	74
13	Geometric and Electronic Structures of Two-Dimensional SiC ₃ Compound. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4509-4515.	1.5	74
14	The stabilities of boron nitride nanoribbons with different hydrogen-terminated edges. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	73
15	Fluorination-induced half-metallicity in zigzag boron nitride nanoribbons: First-principles calculations. <i>Physical Review B</i> , 2010, 81, .	1.1	66
16	Highly active, stable and self-antimicrobial enzyme catalysts prepared by biomimetic mineralization of copper hydroxysulfate. <i>Nanoscale</i> , 2016, 8, 17440-17445.	2.8	60
17	Electronic structures of BC ₃ nanoribbons. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	58
18	The electronic structures of group-V~group-IV hetero-bilayer structures: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27769-27776.	1.3	54

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19	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.	1.5	48
20	Electronic structures of reconstructed zigzag silicene nanoribbons. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	46
21	Electronic structures of zigzag SiC nanoribbons with asymmetric hydrogen-terminations. <i>Applied Physics Letters</i> , 2012, 101, 013102.	1.5	42
22	Electronic structures of boron nanoribbons. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	40
23	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.	1.5	39
24	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.	1.2	38
25	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.	1.5	37
26	An enzyme ⁺ copper nanoparticle hybrid catalyst prepared from disassembly of an enzyme ⁺ inorganic nanocrystal three-dimensional nanostructure. <i>RSC Advances</i> , 2016, 6, 20772-20776.	1.7	36
27	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.	2.7	35
28	Electronic structures of graphane sheets with foreign atom substitutions. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	34
29	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.	0.7	33
30	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.	1.5	32
31	Anisotropic elastic behaviour and one-dimensional metal in phosphorene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 939-942.	1.2	29
32	Unusual structural and electronic properties of porous silicene and germanene: insights from first-principles calculations. <i>Nanoscale Research Letters</i> , 2015, 10, 13.	3.1	29
33	Electronic structures of fully fluorinated and semifluorinated zinc oxide sheets. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	26
34	Electronic structures of Fe-terminated armchair boron nitride nanoribbons. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	25
35	Computational Exploration of Stable 4d/5d Transition-Metal MSi ₂ N ₄ (M = Tj ETQq1 1 0.784314 rgBT /Over Physical Chemistry C, 2021, 125, 19580-19591.	1.5	25
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.	1.5	24

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37	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.	2.7	23
38	Electronic and magnetic properties of 3d transition-metal selenides from first principles. <i>Solid State Communications</i> , 2009, 149, 505-509.	0.9	22
39	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, .	1.5	22
40	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.	3.1	20
41	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.	2.7	19
42	First-principles study of the electronic and magnetic properties of 4d line-defect-embedded BN sheets decorated with transition metals. <i>Annalen Der Physik</i> , 2014, 526, 415-422.	0.9	18
43	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, 23080-23088.	1.3	18
44	Intrinsic ferromagnetism and valley polarization in hydrogenated group V transition-metal dinitride (MN ₂ H ₂ , M = V/Nb/Ta) nanosheets: insights from first-principles. <i>Nanoscale</i> , 2020, 12, 1002-1012.	2.8	17
45	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.	0.7	15
46	Stereo Boron Nitride Nanoribbons with Junction-Dependent Electronic Structures from First-Principles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5995-6003.	1.5	15
47	First-principles study of pressure effects on and. <i>Solid State Communications</i> , 2009, 149, 2125-2129.	0.9	12
48	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.	1.5	12
49	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.	2.7	11
50	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.	2.7	10
51	Adsorption on the carbon nanotubes. <i>Frontiers of Physics in China</i> , 2006, 1, 317-322.	1.0	9
52	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.	3.1	9
53	Tunable electronic and magnetic properties of graphene-like XYBe ₃ (XY = BN, AlN, SiC, GeC) nanosheets with carrier doping: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6830-6837.	1.3	9
54	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.	1.5	9

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55	Stable H-Terminated Edges, Variable Semiconducting Properties, and Solar Cell Applications of C_3N Nanoribbons: A First-Principles Study. ACS Omega, 2018, 3, 8777-8786. First-principles study of two-dimensional $MoN_2X_2Y_2$ ($X=B$)	1.6	9
56		3.1	9
57	with peculiar electronic and magnetic properties. Applied Surface Science, 2022, 593, 153317. Electronic structure of fluorinated and hydrogenated beryllium monoxide nanostructures. Physica Status Solidi - Rapid Research Letters, 2012, 6, 83-85.	1.2	8
58	Stabilizing the isolated Sn_2Bi nanosheet and tailoring its electronic structure by chemical functionalization: A computational study. Applied Physics Letters, 2019, 114, .	1.5	8
59	Structural stability and the electronic properties of a $(SiH)_2O$ -formed siloxene sheet: a computational study. Physical Chemistry Chemical Physics, 2017, 19, 18030-18035.	1.3	7
60	Tunable magnetic and electronic properties of BN nanosheets with triangular defects: a first-principles study. Journal of Physics Condensed Matter, 2014, 26, 435302.	0.7	6
61	Lattice thermal conductivities and thermoelectric performances of binary tin-based sheets: A computational study. Applied Surface Science, 2017, 396, 1164-1169.	3.1	6
62	Large-Gap Quantum Spin Hall States in the Bilayer Hexagonal Structure of Rhenium and Technetium Dinitrides: A First-Principles Study. Journal of Physical Chemistry C, 2019, 123, 25524-25530.	1.5	6
63	Ground states of diatomic molecules adsorbed on single-walled carbon nanotubes. Physical Review B, 2006, 74, .	1.1	5
64	Electronic properties of boron nanotubes with axial strain. Frontiers of Physics in China, 2009, 4, 383-388.	1.0	5
65	Stable puckered C_2N_2 nanosheet with giant anisotropic hole carrier mobility: insights from first-principles. Journal of Materials Chemistry C, 2020, 8, 15655-15663.	2.7	4
66	First-principles study of bilayer hexagonal structure of SN_2 nanosheet: a highly stable non-metal platform for the quantum anomalous Hall effect. Journal of Materials Chemistry C, 2021, 9, 5961-5969.	2.7	4
67	First-principles study of the triwing graphene nanoribbons: junction-dependent electronic structures and electric field modulations. Physical Chemistry Chemical Physics, 2012, 14, 2040.	1.3	3
68	Back Cover: Mechanical and electronic properties of stoichiometric silicene and germanene oxides from first-principles (Phys. Status Solidi RRL 6/2013). Physica Status Solidi - Rapid Research Letters, 2013, 7, .	1.2	0