

Yi Ding

List of Publications by Year in descending order

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68
papers

3,844
citations

159585

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docs citations

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4520
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#	ARTICLE	IF	CITATIONS
1	First-principles study of two-dimensional $\text{MoN}_2\text{X}_2\text{Y}_2$ ($X, Y = \text{C, N, Si, Ge}$) nanosheets. Journal of Materials Chemistry C, 2021, 9, 5961-5969.	6.1	9
2	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.	5.5	4
3	Computational Exploration of Stable 4d/5d Transition-Metal MSi_2N_4 ($M = \text{Ti, Zr, Hf}$) Nanosheets. Physical Chemistry C, 2021, 125, 19580-19591.	3.1	25
4	Switchable valley polarization and quantum anomalous Hall state in the $\text{VN}_2\text{X}_2\text{Y}_2$ nanosheets ($X, Y = \text{C, N, Si, Ge}$ group-III and $\text{Y} = \text{As, Sb, Bi}$ group-VI elements). Applied Physics Letters, 2021, 119, .	3.3	22
5	Intrinsic ferromagnetism and valley polarization in hydrogenated group V transition-metal dinitride (MN_2H_2 , $M = \text{V/Nb/Ta}$) nanosheets: insights from first-principles. Nanoscale, 2020, 12, 1002-1012.	5.6	17
6	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.	5.5	4
7	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.	3.1	6
8	Stabilizing the isolated Sn_2Bi nanosheet and tailoring its electronic structure by chemical functionalization: A computational study. Applied Physics Letters, 2019, 114, .	3.3	8
9	Tunable electronic and magnetic properties of graphene-like XYBe_3 ($\text{XY} = \text{BN, AlN, SiC, GeC}$) nanosheets with carrier doping: a first-principles study. Physical Chemistry Chemical Physics, 2018, 20, 6830-6837.	2.8	9
10	A first-principles study of a real energetically stable MoN_2 nanosheet and its tunable electronic structure. Journal of Materials Chemistry C, 2018, 6, 2245-2251.	5.5	23
11	Tunable Electronic Structures of Hydrogenated Zigzag and Armchair Dumbbell Silicene Nanosheets: A Computational Study. Journal of Physical Chemistry C, 2018, 122, 23208-23216.	3.1	9
12	Uncovering a Stable Phase in Group V Transition-metal Dinitride (MN_2 , $M = \text{Ta, Nb, V}$) Nanosheets and Their Electronic Properties via First-principles Investigations. Journal of Physical Chemistry C, 2018, 122, 26748-26755.	3.1	32
13	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.	3.5	9
14	Structural stability and the electronic properties of a $(\text{SiH})_2\text{O}$ -formed siloxene sheet: a computational study. Physical Chemistry Chemical Physics, 2017, 19, 18030-18035.	2.8	7
15	Lattice thermal conductivities and thermoelectric performances of binary tin-based sheets: A computational study. Applied Surface Science, 2017, 396, 1164-1169.	6.1	6
16	Surface functionalization of molybdenum dinitride nanosheets by halogen and alkali atoms: a first-principles study. Journal of Materials Chemistry C, 2017, 5, 683-689.	5.5	10
17	Intrinsic magnetism and electronic structure of graphene-like Be_3C_2 nanoribbons and their Si, Ge analogues: a computational study. Journal of Materials Chemistry C, 2017, 5, 10728-10736.	5.5	11
18	Electronic structure and topological features of tin-based binary nanosheets and their hydrogenated/fluorinated derivatives: A first-principles study. Applied Surface Science, 2016, 382, 1-9.	6.1	9

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19	Highly active, stable and self-antimicrobial enzyme catalysts prepared by biomimetic mineralization of copper hydroxysulfate. <i>Nanoscale</i> , 2016, 8, 17440-17445.	5.6	60
20	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.	2.8	18
21	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.	5.5	35
22	An enzyme- <i>inorganic</i> copper nanoparticle hybrid catalyst prepared from disassembly of an enzyme- <i>inorganic</i> nanocrystal three-dimensional nanostructure. <i>RSC Advances</i> , 2016, 6, 20772-20776.	3.6	36
23	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.	5.5	19
24	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	33
25	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.	3.1	24
26	Unusual structural and electronic properties of porous silicene and germanene: insights from first-principles calculations. <i>Nanoscale Research Letters</i> , 2015, 10, 13.	5.7	29
27	Electronic Structure and Carrier Mobilities of Arsenene and Antimonene Nanoribbons: A First-Principle Study. <i>Nanoscale Research Letters</i> , 2015, 10, 955.	5.7	137
28	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.	3.1	196
29	The electronic structures of group-V- <i>group-IV</i> hetero-bilayer structures: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27769-27776.	2.8	54
30	Hydrogen-induced stabilization and tunable electronic structures of penta-silicene: a computational study. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11341-11348.	5.5	85
31	Electronic structures of reconstructed zigzag silicene nanoribbons. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	46
32	First-principles study of the electronic and magnetic properties of <i>line</i> -defect-embedded BN sheets decorated with transition metals. <i>Annalen Der Physik</i> , 2014, 526, 415-422.	2.4	18
33	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
34	Anisotropic elastic behaviour and one-dimensional metal in phosphorene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 939-942.	2.4	29
35	Geometric and Electronic Structures of Two-Dimensional SiC ₃ Compound. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4509-4515.	3.1	74
36	Electronic structures of silicene/GaS heterosheets. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	105

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37	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. Journal of Physical Chemistry C, 2013, 117, 18266-18278.	3.1	271
38	Strain-induced self-doping in silicene and germanene from first-principles. Solid State Communications, 2013, 155, 6-11.	1.9	131
39	Mechanical and electronic properties of stoichiometric silicene and germanene oxides from first-principles. Physica Status Solidi - Rapid Research Letters, 2013, 7, 410-413.	2.4	38
40	Structural, Electronic, and Magnetic Properties of the Semifluorinated Boron Nitride Bilayer: A First-Principles Study. Journal of Physical Chemistry C, 2013, 117, 3114-3121.	3.1	12
41	Electronic structures of zigzag silicene nanoribbons with asymmetric sp ² ~sp ³ edges. Applied Physics Letters, 2013, 102, .	3.3	74
42	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, .	2.4	0
43	First-principles study of the triwing graphene nanoribbons: junction-dependent electronic structures and electric field modulations. Physical Chemistry Chemical Physics, 2012, 14, 2040.	2.8	3
44	Electronic structures of silicene fluoride and hydride. Applied Physics Letters, 2012, 100, .	3.3	165
45	Stereo Boron Nitride Nanoribbons with Junction-Dependent Electronic Structures from First-Principles. Journal of Physical Chemistry C, 2012, 116, 5995-6003.	3.1	15
46	Electronic structures of zigzag SiC nanoribbons with asymmetric hydrogen-terminations. Applied Physics Letters, 2012, 101, 013102.	3.3	42
47	Electronic structure of fluorinated and hydrogenated beryllium monoxide nanostructures. Physica Status Solidi - Rapid Research Letters, 2012, 6, 83-85.	2.4	8
48	Electronic Structures of Porous Graphene, BN, and BC ₂ N Sheets with One- and Two-Hydrogen Passivations from First Principles. Journal of Physical Chemistry C, 2011, 115, 5334-5343.	3.1	48
49	Electronic structures of Fe-terminated armchair boron nitride nanoribbons. Applied Physics Letters, 2011, 99, .	3.3	25
50	First-principles study of half-metallicity in semi-hydrogenated BC ₃ , BC ₅ , BC ₇ , and B-doped graphone sheets. Nanoscale Research Letters, 2011, 6, 190.	5.7	20
51	First principles study of structural, vibrational and electronic properties of graphene-like MX ₂ (M=Mo, Nb, W, Ta; X=S, Se, Te) monolayers. Physica B: Condensed Matter, 2011, 406, 2254-2260.	2.7	613
52	Electronic structures of graphane sheets with foreign atom substitutions. Applied Physics Letters, 2011, 98, .	3.3	34
53	Fluorination-induced half-metallicity in zigzag boron nitride nanoribbons: First-principles calculations. Physical Review B, 2010, 81, .	3.2	66
54	Electronic structures of fully fluorinated and semifluorinated zinc oxide sheets. Applied Physics Letters, 2010, 96, .	3.3	26

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55	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.	3.1	37
56	Electronic structures of BC ₃ nanoribbons. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	58
57	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
58	Electronic properties of boron nanotubes with axial strain. <i>Frontiers of Physics in China</i> , 2009, 4, 383-388.	1.0	5
59	Electronic and magnetic properties of 3d transition-metal selenides from first principles. <i>Solid State Communications</i> , 2009, 149, 505-509.	1.9	22
60	First-principles study of pressure effects on and. <i>Solid State Communications</i> , 2009, 149, 2125-2129.	1.9	12
61	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.	3.1	39
62	Electronic structures of silicon nanoribbons. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	276
63	Electronic properties of graphene nanoribbons embedded in boron nitride sheets. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	123
64	The stabilities of boron nitride nanoribbons with different hydrogen-terminated edges. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	73
65	Electronic structures of boron nanoribbons. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	40
66	<i>Ab initio</i> prediction of stable boron sheets and boron nanotubes: Structure, stability, and electronic properties. <i>Physical Review B</i> , 2008, 77, .	3.2	315
67	Adsorption on the carbon nanotubes. <i>Frontiers of Physics in China</i> , 2006, 1, 317-322.	1.0	9
68	Ground states of diatomic molecules adsorbed on single-walled carbon nanotubes. <i>Physical Review B</i> , 2006, 74, .	3.2	5