

Jin Li

List of Publications by Year in descending order

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55
papers

1,101
citations

471509

17
h-index

434195

31
g-index

55
all docs

55
docs citations

55
times ranked

935
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex Low Energy Tetrahedral Polymorphs of Group IV Elements from First Principles. <i>Physical Review Letters</i> , 2018, 121, 175701.	7.8	95
2	Stone-Wales graphene: A two-dimensional carbon semimetal with magic stability. <i>Physical Review B</i> , 2019, 99, .	3.2	95
3	Thermal and thermoelectric properties of monolayer indium triphosphide (InP ₃): a first-principles study. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21532-21541.	10.3	91
4	Tunable bandgap structures of two-dimensional boron nitride. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	59
5	Theoretical prediction of low-energy Stone-Wales graphene with an intrinsic type-III Dirac cone. <i>Physical Review B</i> , 2020, 101, .	3.2	53
6	Two-dimensional topological insulators with tunable band gaps: Single-layer HgTe and HgSe. <i>Scientific Reports</i> , 2015, 5, 14115.	3.3	50
7	Direct and quasi-direct band gap silicon allotropes with remarkable stability. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9682-9686.	2.8	49
8	Two-Dimensional Carbon Allotropes and Nanoribbons based on 2,6-Polyazulene Chains: Stacking Stabilities and Electronic Properties. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 732-738.	4.6	41
9	Si-Cmma: A silicon thin film with excellent stability and Dirac nodal loop. <i>Physical Review B</i> , 2019, 100, .	3.2	36
10	High-Throughput Screening of Two-Dimensional Planar sp^2 Carbon Space Associated with a Labeled Quotient Graph. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11511-11519.	4.6	34
11	Newly discovered graphyne allotrope with rare and robust Dirac node loop. <i>Nanoscale</i> , 2021, 13, 3564-3571.	5.6	33
12	Five low energy phosphorene allotropes constructed through gene segments recombination. <i>Scientific Reports</i> , 2017, 7, 46431.	3.3	31
13	Intrinsic piezoelectricity of monolayer group IV-V MX ₂ : SiP ₂ , SiAs ₂ , GeP ₂ , and GeAs ₂ . <i>Applied Physics Letters</i> , 2020, 116, .	3.3	30
14	New Two-Dimensional Wide Band Gap Hydrocarbon Insulator by Hydrogenation of a Biphenylene Sheet. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8889-8896.	4.6	26
15	The intrinsic thermal transport properties of the biphenylene network and the influence of hydrogenation: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16945-16951.	5.5	26
16	Space-confined and substrate-directed synthesis of transition-metal dichalcogenide nanostructures with tunable dimensionality. <i>Science Bulletin</i> , 2020, 65, 1013-1021.	9.0	25
17	Bayesian optimization-based design of defect gamma-graphyne nanoribbons with high thermoelectric conversion efficiency. <i>Carbon</i> , 2021, 176, 52-60.	10.3	25
18	Stability and magnetic properties of SnSe monolayer doped by transition metal atom (Mn, Fe, and Co): a first-principles study. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 245004.	2.8	18

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19	Tunable photoelectronic properties of hydrogenated-silicene/halogenated-silicene superlattices for water splitting. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	18
20	Ge3P2: New viable two-dimensional semiconductors with ultrahigh carrier mobility. <i>Applied Surface Science</i> , 2019, 497, 143803.	6.1	17
21	Systematic Enumeration of Low-Energy Graphyne Allotropes Based on a Coordination-Constrained Searching Strategy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000437.	2.4	17
22	Large-Gap Quantum Spin Hall State and Temperature-Induced Lifshitz Transition in Bi_4Br_4 . <i>ACS Nano</i> , 2022, 16, 3036-3044.	14.6	17
23	Potential thermoelectric material open framework Si_24 from a first-principles study. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 425501.	2.8	15
24	The thermoelectric properties of monolayer SiP and GeP from first-principles calculations. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	14
25	Photogalvanic-Effect-Induced Spin-Polarized Current in Defective Silicene with H Vacancies. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000395.	2.4	13
26	Optoelectronic properties of type-II SePtTe/InS van der Waals heterojunction. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	12
27	Epitaxial Growth of Quasi-One-Dimensional Bismuth-Halide Chains with Atomically Sharp Topological Non-Trivial Edge States. <i>ACS Nano</i> , 2021, 15, 14850-14857.	14.6	12
28	First-principles prediction of two hexagonal silicon crystals as potential absorbing layer materials for solar-cell application. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	10
29	Potential thermoelectric candidate monolayer silicon diphosphide (SiP_2) from a first-principles calculation. <i>Computational Materials Science</i> , 2021, 188, 110154.	3.0	10
30	$\text{Sn}_2\text{Te}/\text{TeIn}_2\text{Se}$: a type-II heterojunction as a water-splitting photocatalyst with high solar energy harvesting. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7734-7744.	5.5	10
31	<i>Ab initio</i> prediction of a new allotrope of two-dimensional silicon. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1600422.	2.4	9
32	Controllable epitaxial growth of GeSe_2 nanostructures and nonlinear optical properties. <i>Nanotechnology</i> , 2021, 32, 465704.	2.6	9
33	http://www.w3.org/1998/Math/MathML display="inline" overflow="scroll" \hat{I}^2 - $$ Sn Se </math> with Strong Visible Light Absorbance and Ultrahigh Carrier Mobility. <i>Physical Review Applied</i> , 2020, 13, .	3.8	8
34	Giant and tunable Rashba spin splitting in $\text{MoS}_2/\text{Bi}_2\text{Te}_3$ heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 135, 114944.	2.7	8
35	Notable effect of magnetic order on the phonon transport in semi-hydrogenated graphene. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	8
36	Thermoelectric properties of four typical silicon allotropes. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018, 26, 085006.	2.0	7

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37	Strain effect on phonon transport in open framework Si ₂₄ : A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 118, 113870.	2.7	7
38	Type-II lateral SnSe/GeTe heterostructures for solar photovoltaic applications with high efficiency. <i>Nanoscale Advances</i> , 2021, 3, 3643-3649.	4.6	7
39	Doping Induced Abnormal Contraction and Significant Reduction of Lattice Thermal Conductivity of Open Framework Si ₂₄ . <i>ES Energy & Environments</i> , 2018, , .	1.1	7
40	First-principles study on the electronic, mechanical and optical properties for silicon allotropes in hexagonal 2 \times 7 stacking orders. <i>Scripta Materialia</i> , 2022, 219, 114843.	5.2	7
41	Optimizing the thermoelectric performance of graphyne nanotube via applying radial strain. <i>Journal of Applied Physics</i> , 2017, 121, 125112.	2.5	5
42	First principles study of semihydrogenated graphene and topological insulator heterojunction. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 365002.	1.8	5
43	Excellent properties of type-II van der Waals Janus-XM ₂ X TM /MX heterojunctions toward solar cell utilization. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 405101.	2.8	5
44	Water-assisted controllable growth of atomically thin WTe ₂ nanoflakes by chemical vapor deposition based on precursor design and substrate engineering strategies. <i>Nanotechnology</i> , 2022, 33, 175602.	2.6	5
45	Effect of hydrogen passivation on the decoupling of graphene on SiC(0001) substrate: First-principles calculations. <i>Scientific Reports</i> , 2017, 7, 8461.	3.3	4
46	2D O-PTI monolayer: a robust large bandgap topological insulator. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 025302.	2.8	4
47	Tunable topologically nontrivial states in newly discovered graphyne allotropes: from Dirac nodal grid to Dirac nodal loop. <i>Nanotechnology</i> , 2021, 32, 485705.	2.6	4
48	Electronic and Spin-Dependent Optical Properties of Fe-Adsorbed Armchair Silicene/Silicane Superlattices. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900494.	2.4	3
49	Quasi-bonding driven abnormal isotropic thermal transport in intrinsically anisotropic nanostructure: a case of study of a phosphorus nanotube array. <i>Nanotechnology</i> , 2020, 31, 095704.	2.6	3
50	Modulation of magnetism in transition-metal-doped two-dimensional GeS. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 225001.	2.8	2
51	The thermoelectric performance of dumbbell silicene nanoribbons. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 511-517.	2.1	1
52	Excellent thermoelectric performance of open framework Si ₂₄ nanowires from density functional based tight-binding calculation. <i>Journal of Applied Physics</i> , 2020, 128, 215108.	2.5	1
53	Enhanced and spin-dependent infrared optical response of silicene/silicane superlattices with Cr adsorption. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 405106.	2.8	0
54	KP15: Natural van der Waals material with ultra-low thermal conductivity and excellent thermoelectric performance. <i>Journal of Applied Physics</i> , 2021, 130, 195104.	2.5	0

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55	Giant Rashba Spin Splitting in Sb/Bi ₂ Se ₃ /Sb and Sb/Sb ₂ Te ₃ /Sb Heterojunctions. Journal of Electronic Materials, 0, , .	2.2	0