

Jin Li

List of Publications by Year in descending order

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55
papers

1,101
citations

471509

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434195

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all docs

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docs citations

55
times ranked

935
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant and tunable Rashba spin splitting in MoS ₂ /Bi ₂ Te ₃ heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 135, 114944.	2.7	8
2	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
3	Large-Gap Quantum Spin Hall State and Temperature-Induced Lifshitz Transition in Bi ₄ Br ₄ . <i>ACS Nano</i> , 2022, 16, 3036-3044.	14.6	17
4	Notable effect of magnetic order on the phonon transport in semi-hydrogenated graphene. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	8
5	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
6	Potential thermoelectric candidate monolayer silicon diphosphide (SiP ₂) from a first-principles calculation. <i>Computational Materials Science</i> , 2021, 188, 110154.	3.0	10
7	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
8	Newly discovered graphyne allotrope with rare and robust Dirac node loop. <i>Nanoscale</i> , 2021, 13, 3564-3571.	5.6	33
9	Bayesian optimization-based design of defect gamma-graphyne nanoribbons with high thermoelectric conversion efficiency. <i>Carbon</i> , 2021, 176, 52-60.	10.3	25
10	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
11	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
12	Controllable epitaxial growth of GeSe ₂ nanostructures and nonlinear optical properties. <i>Nanotechnology</i> , 2021, 32, 465704.	2.6	9
13	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
14	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
15	Sn ₂ Te/TeIn ₂ 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
16	Type-II lateral SnSe/GeTe heterostructures for solar photovoltaic applications with high efficiency. <i>Nanoscale Advances</i> , 2021, 3, 3643-3649.	4.6	7
17	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
18	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

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19	KP15: Natural van der Waals material with ultra-low thermal conductivity and excellent thermoelectric performance. Journal of Applied Physics, 2021, 130, 195104.	2.5	0
20	2D O-PTI monolayer: a robust large bandgap topological insulator. Journal Physics D: Applied Physics, 2020, 53, 025302.	2.8	4
21	Electronic and Spin-Dependent Optical Properties of Fe-Adsorbed Armchair Silicene/Silicane Superlattices. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900494.	2.4	3
22	Quasi-bonding driven abnormal isotropic thermal transport in intrinsically anisotropic nanostructure: a case of study of a phosphorus nanotube array. Nanotechnology, 2020, 31, 095704.	2.6	3
23	Strain effect on phonon transport in open framework Si ₂₄ : A first-principles study. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 118, 113870.	2.7	7
24	Photogalvanic-Effect-Induced Spin-Polarized Current in Defective Silicane with H Vacancies. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000395.	2.4	13
25	Systematic Enumeration of Low-Energy Graphyne Allotropes Based on a Coordination-Constrained Searching Strategy. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000437.	2.4	17
26	Optoelectronic properties of type-II SePtTe/InS van der Waals heterojunction. Journal of Applied Physics, 2020, 128, .	2.5	12
27	Excellent thermoelectric performance of open framework Si ₂₄ nanowires from density functional based tight-binding calculation. Journal of Applied Physics, 2020, 128, 215108.	2.5	1
28	Excellent properties of type-II van der Waals Janus-XM ₂ X TM /MX heterojunctions toward solar cell utilization. Journal Physics D: Applied Physics, 2020, 53, 405101.	2.8	5
29	Space-confined and substrate-directed synthesis of transition-metal dichalcogenide nanostructures with tunable dimensionality. Science Bulletin, 2020, 65, 1013-1021.	9.0	25
30	Tunable photoelectronic properties of hydrogenated-silicene/halogenated-silicene superlattices for water splitting. Journal of Applied Physics, 2020, 127, .	2.5	18
31	Intrinsic piezoelectricity of monolayer group IV-V MX ₂ : SiP ₂ , SiAs ₂ , GeP ₂ , and GeAs ₂ . Applied Physics Letters, 2020, 116, .	3.3	30
32	Few-Layer I^2 - S_n Se with Strong Visible Light Absorbance and Ultrahigh Carrier Mobility. Physical Review Applied, 2020, 13, .	3.8	8
33	Theoretical prediction of low-energy Stone-Wales graphene with an intrinsic type-III Dirac cone. Physical Review B, 2020, 101, .	3.2	53
34	Si-Cmma: A silicon thin film with excellent stability and Dirac nodal loop. Physical Review B, 2019, 100, .	3.2	36
35	Ge ₃ P ₂ : New viable two-dimensional semiconductors with ultrahigh carrier mobility. Applied Surface Science, 2019, 497, 143803.	6.1	17
36	Stone-Wales graphene: A two-dimensional carbon semimetal with magic stability. Physical Review B, 2019, 99, .	3.2	95

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37	First principles study of semihydrogenated graphene and topological insulator heterojunction. Journal of Physics Condensed Matter, 2019, 31, 365002.	1.8	5
38	The thermoelectric properties of monolayer SiP and GeP from first-principles calculations. Journal of Applied Physics, 2019, 126, .	2.5	14
39	Modulation of magnetism in transition-metal-doped two-dimensional GeS. Journal Physics D: Applied Physics, 2018, 51, 225001.	2.8	2
40	Thermal and thermoelectric properties of monolayer indium triphosphide (InP ₃): a first-principles study. Journal of Materials Chemistry A, 2018, 6, 21532-21541.	10.3	91
41	The thermoelectric performance of dumbbell silicene nanoribbons. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 511-517.	2.1	1
42	Thermoelectric properties of four typical silicon allotropes. Modelling and Simulation in Materials Science and Engineering, 2018, 26, 085006.	2.0	7
43	Complex Low Energy Tetrahedral Polymorphs of Group IV Elements from First Principles. Physical Review Letters, 2018, 121, 175701.	7.8	95
44	First-principles prediction of two hexagonal silicon crystals as potential absorbing layer materials for solar-cell application. Journal of Applied Physics, 2018, 124, .	2.5	10
45	Stability and magnetic properties of SnSe monolayer doped by transition metal atom (Mn, Fe, and Co): a first-principles study. Journal Physics D: Applied Physics, 2018, 51, 245004.	2.8	18
46	Doping Induced Abnormal Contraction and Significant Reduction of Lattice Thermal Conductivity of Open Framework Si ₂₄ . ES Energy & Environments, 2018, , .	1.1	7
47	<i>Ab initio</i> prediction of a new allotrope of two-dimensional silicon. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600422.	2.4	9
48	Five low energy phosphorene allotropes constructed through gene segments recombination. Scientific Reports, 2017, 7, 46431.	3.3	31
49	Optimizing the thermoelectric performance of graphyne nanotube via applying radial strain. Journal of Applied Physics, 2017, 121, 125112.	2.5	5
50	Effect of hydrogen passivation on the decoupling of graphene on SiC(0001) substrate: First-principles calculations. Scientific Reports, 2017, 7, 8461.	3.3	4
51	Potential thermoelectric material open framework Si ₂₄ from a first-principles study. Journal Physics D: Applied Physics, 2017, 50, 425501.	2.8	15
52	Direct and quasi-direct band gap silicon allotropes with remarkable stability. Physical Chemistry Chemical Physics, 2016, 18, 9682-9686.	2.8	49
53	Two-dimensional topological insulators with tunable band gaps: Single-layer HgTe and HgSe. Scientific Reports, 2015, 5, 14115.	3.3	50
54	Tunable bandgap structures of two-dimensional boron nitride. Journal of Applied Physics, 2008, 104, .	2.5	59

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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