## Jianxin Zhong

List of Publications by Year in descending order

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57758 79698 6,333 169 44 73 citations h-index g-index papers 170 170 170 8777 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Selfâ€Powered Photodetector. Advanced Functional Materials, 2017, 27, 1606834.	14.9	342
2	Few‣ayer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2017, 7, 1700396.	19.5	301
3	Highâ€Performance Photoâ€Electrochemical Photodetector Based on Liquidâ€Exfoliated Fewâ€Layered InSe Nanosheets with Enhanced Stability. Advanced Functional Materials, 2018, 28, 1705237.	14.9	258
4	Solar Water Splitting by TiO <sub>2</sub> /CdS/Co–Pi Nanowire Array Photoanode Enhanced with Co–Pi as Hole Transfer Relay and CdS as Light Absorber. Advanced Functional Materials, 2015, 25, 5706-5713.	14.9	240
5	A black/red phosphorus hybrid as an electrode material for high-performance Li-ion batteries and supercapacitors. Journal of Materials Chemistry A, 2017, 5, 6581-6588.	10.3	160
6	Large-scale production of ultrathin topological insulator bismuth telluride nanosheets by a hydrothermal intercalation and exfoliation route. Journal of Materials Chemistry, 2012, 22, 4921.	6.7	158
7	Self-Assembled Three-Dimensional Graphene-Based Aerogel with Embedded Multifarious Functional Nanoparticles and Its Excellent Photoelectrochemical Activities. ACS Sustainable Chemistry and Engineering, 2014, 2, 741-748.	6.7	143
8	3D hierarchical porous graphene aerogel with tunable meso-pores on graphene nanosheets for high-performance energy storage. Scientific Reports, 2015, 5, 14229.	3.3	139
9	Enhanced thermoelectric properties in hybrid graphene/boron nitride nanoribbons. Physical Review B, 2012, 86, .	3.2	138
10	Cobalt phosphate modified TiO <sub>2</sub> nanowire arrays as co-catalysts for solar water splitting. Nanoscale, 2015, 7, 6722-6728.	5.6	136
11	MoS <sub>2</sub> â€Quantumâ€Dotâ€Interspersed Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Nanosheet with Enhanced Performance for Li―and Naâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 3349-3358.	ets 14.9	128
12	Upconversion-P25-graphene composite as an advanced sunlight driven photocatalytic hybrid material. Journal of Materials Chemistry, 2012, 22, 11765.	6.7	119
13	Stochastic generation of complex crystal structures combining group and graph theory with application to carbon. Physical Review B, 2018, 97, .	3.2	114
14	Thermal transport in graphyne nanoribbons. Physical Review B, 2012, 85, .	3.2	103
15	Complex Low Energy Tetrahedral Polymorphs of Group IV Elements from First Principles. Physical Review Letters, 2018, 121, 175701.	7.8	95
16	Stone-Wales graphene: A two-dimensional carbon semimetal with magic stability. Physical Review B, 2019, 99, .	3.2	95
17	Temperature-Dependent Raman Responses of the Vapor-Deposited Tin Selenide Ultrathin Flakes. Journal of Physical Chemistry C, 2017, 121, 4674-4679.	3.1	94
18	A Bond-order Theory on the Phonon Scattering by Vacancies in Two-dimensional Materials. Scientific Reports, 2014, 4, 5085.	3.3	91

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19	Thermal and thermoelectric properties of monolayer indium triphosphide (InP <sub>3</sub> ): a first-principles study. Journal of Materials Chemistry A, 2018, 6, 21532-21541.	10.3	91
20	Black Phosphorus Nanosheets Modified with Au Nanoparticles as High Conductivity and High Activity Electrocatalyst for Oxygen Evolution Reaction. Advanced Energy Materials, 2020, 10, 2002424.	19.5	79
21	3D Binder-free MoSe2 Nanosheets/Carbon Cloth Electrodes for Efficient and Stable Hydrogen Evolution Prepared by Simple Electrophoresis Deposition Strategy. Scientific Reports, 2016, 6, 22516.	3.3	75
22	A rationally designed composite of alternating strata of Si nanoparticles and graphene: a high-performance lithium-ion battery anode. Nanoscale, 2013, 5, 8586.	5.6	72
23	Nanoindentation models and Young's modulus of monolayer graphene: A molecular dynamics study. Applied Physics Letters, 2013, 102, .	3.3	72
24	Hydrothermal synthesis of Ni <sub>3</sub> S <sub>2</sub> /graphene electrode and its application in a supercapacitor. RSC Advances, 2014, 4, 37278-37283.	3.6	71
25	In situ shape and phase transformation synthesis of Co3S4 nanosheet arrays for high-performance electrochemical supercapacitors. RSC Advances, 2013, 3, 22922.	3.6	66
26	Rational Construction of a Functionalized V <sub>2</sub> O <sub>5</sub> Nanosphere/MWCNT Layerâ€byâ€Layer Nanoarchitecture as Cathode for Enhanced Performance of Lithiumâ€ion Batteries. Advanced Functional Materials, 2015, 25, 5633-5639.	14.9	62
27	Binder-free Si nanoparticles@carbon nanofiber fabric as energy storage material. Electrochimica Acta, 2013, 102, 246-251.	5.2	60
28	Lattice thermal conductivity of borophene from first principle calculation. Scientific Reports, 2017, 7, 45986.	3.3	60
29	Ballistic thermal rectification in asymmetric three-terminal graphene nanojunctions. Physical Review B, 2010, 82, .	3.2	57
30	A novel WS <sub>2</sub> /NbSe <sub>2</sub> vdW heterostructure as an ultrafast charging and discharging anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 17040-17048.	10.3	53
31	Direct Vapor Deposition Growth of 1T′ MoTe <sub>2</sub> on Carbon Cloth for Electrocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2020, 3, 3212-3219.	5.1	52
32	Thermal conductance modulator based on folded graphene nanoribbons. Applied Physics Letters, 2011, 99, 233101.	3.3	50
33	Two-dimensional topological insulators with tunable band gaps: Single-layer HgTe and HgSe. Scientific Reports, 2015, 5, 14115.	3.3	50
34	Thermoelectric properties of gamma-graphyne nanoribbons and nanojunctions. Journal of Applied Physics, 2013, 114.	2.5	49
35	xmins:mmi="nttp://www.w3.org/1998/Math/Math/MC display="inline"> <mmi:msub><mmi:mrow /&gt;<mml:mn>2</mml:mn>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:msub><mml:mrow /&gt;<mml:mn>3</mml:mn></mml:mrow </mml:msub>and Bi<mml:math< td=""><td>3.2</td><td>49</td></mml:math<></mml:math </mmi:mrow </mmi:msub>	3.2	49
36	Electrochemically reduced graphene oxide with porous structure as a binder-free electrode for high-rate supercapacitors. RSC Advances, 2014, 4, 13673.	3.6	48

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37	Tunable Electronic and Optical Properties of 2D Monoelemental Materials Beyond Graphene for Promising Applications. Energy and Environmental Materials, 2021, 4, 522-543.	12.8	48
38	SnS 2 nanoplates embedded in 3D interconnected graphene network as anode material with superior lithium storage performance. Applied Surface Science, 2015, 355, 7-13.	6.1	47
39	Electrostatic properties of few-layer MoS2 films. AIP Advances, 2013, 3, .	1.3	46
40	Phonon mean free path spectrum and thermal conductivity for Silâ^'xGex nanowires. Applied Physics Letters, 2014, 104, .	3.3	46
41	Few-Layer Antimonene Nanosheet: A Metal-Free Bifunctional Electrocatalyst for Effective Water Splitting. ACS Applied Energy Materials, 2019, 2, 4774-4781.	5.1	46
42	Asymmetric transport in asymmetric T-shaped graphene nanoribbons. Applied Physics Letters, 2008, 93, 092104.	3.3	45
43	Transport Properties of Hybrid Zigzag Graphene and Boron Nitride Nanoribbons. Journal of Physical Chemistry C, 2011, 115, 10836-10841.	3.1	45
44	Electrochemical properties of high-power supercapacitors using ordered NiO coated Si nanowire array electrodes. Applied Physics A: Materials Science and Processing, 2011, 104, 545-550.	2.3	44
45	An architectured TiO2 nanosheet with discrete integrated nanocrystalline subunits and its application in lithium batteries. Journal of Materials Chemistry, 2012, 22, 21513.	6.7	44
46	Three-dimensional network current collectors supported Si nanowires for lithium-ion battery applications. Electrochimica Acta, 2013, 88, 766-771.	5.2	44
47	TiO <sub>2</sub> /Bi <sub>2</sub> S <sub>3</sub> core–shell nanowire arrays for photoelectrochemical hydrogen generation. RSC Advances, 2015, 5, 13544-13549.	3.6	44
48	Structure, stability and electronic properties of tricycle type graphane. Physica Status Solidi - Rapid Research Letters, 2012, 6, 427-429.	2.4	43
49	Nitrogen-doped graphene–Fe3O4 architecture as anode material for improved Li-ion storage. RSC Advances, 2014, 4, 17653.	3.6	41
50	Flexible Bismuth Selenide /Graphene composite paper for lithium-ion batteries. Ceramics International, 2017, 43, 1437-1442.	4.8	41
51	Two-Dimensional Carbon Allotropes and Nanoribbons based on 2,6-Polyazulene Chains: Stacking Stabilities and Electronic Properties. Journal of Physical Chemistry Letters, 2021, 12, 732-738.	4.6	41
52	Vertically aligned TiO2/(CdS, CdTe, CdSTe) core/shell nanowire array for photoelectrochemical hydrogen generation. Journal of Power Sources, 2015, 280, 5-11.	7.8	40
53	Ultraviolet, visible, and near infrared photoresponse properties of solution processed graphene oxide. Applied Surface Science, 2013, 266, 332-336.	6.1	39
54	Strain engineering the structures and electronic properties of Janus monolayer transition-metal dichalcogenides. Journal of Applied Physics, 2019, 125, .	2.5	39

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55	Large-scale carambola-like V2O5 nanoflowers arrays on microporous reed carbon as improved electrochemical performances lithium-ion batteries cathode. Journal of Energy Chemistry, 2020, 51, 388-395.	12.9	38
56	Hydrothermal exfoliated molybdenum disulfide nanosheets as anode material for lithium ion batteries. Journal of Energy Chemistry, 2014, 23, 207-212.	12.9	36
57	Anisotropic thermal transport in Weyl semimetal TaAs: a first principles calculation. Physical Chemistry Chemical Physics, 2016, 18, 16709-16714.	2.8	36
58	Si-Cmma: A silicon thin film with excellent stability and Dirac nodal loop. Physical Review B, 2019, 100, .	3.2	36
59	Unified superradiant phase transitions. Physical Review A, 2019, 100, .	2.5	36
60	Density functional theory study of Fe adatoms adsorbed monolayer and bilayer MoS2 sheets. Journal of Applied Physics, 2013, 114, .	<b>2.</b> 5	35
61	Photodetectors Based on SnS <sub>2</sub> /Graphene Heterostructure on Rigid and Flexible Substrates. ChemNanoMat, 2018, 4, 373-378.	2.8	34
62	High-Throughput Screening of Two-Dimensional Planar sp <sup>2</sup> Carbon Space Associated with a Labeled Quotient Graph. Journal of Physical Chemistry Letters, 2021, 12, 11511-11519.	4.6	34
63	The structural, electronic and magnetic properties of bi-layered MoS2 with transition-metals doped in the interlayer. RSC Advances, 2013, 3, 12939.	3.6	33
64	Cobalt phosphate modified 3D TiO2/BiVO4 composite inverse opals photoanode for enhanced photoelectrochemical water splitting. Applied Surface Science, 2019, 464, 544-551.	6.1	33
65	Newly discovered graphyne allotrope with rare and robust Dirac node loop. Nanoscale, 2021, 13, 3564-3571.	5.6	33
66	Introduction of nitrogen defects into a graphitic carbon nitride framework by selenium vapor treatment for enhanced photocatalytic hydrogen production. Applied Surface Science, 2019, 476, 552-559.	6.1	32
67	Five low energy phosphorene allotropes constructed through gene segments recombination. Scientific Reports, 2017, 7, 46431.	3.3	31
68	Phase controllable synthesis of SnSe and SnSe2 films with tunable photoresponse properties. Applied Surface Science, 2021, 541, 148615.	6.1	31
69	Intrinsic piezoelectricity of monolayer group IV–V MX2: SiP2, SiAs2, GeP2, and GeAs2. Applied Physics Letters, 2020, 116, .	3.3	30
70	Electron transport of folded graphene nanoribbons. Journal of Applied Physics, 2009, 106, .	2.5	28
71	Size and boundary scattering controlled contribution of spectral phonons to the thermal conductivity in graphene ribbons. Journal of Applied Physics, 2014, 115, .	2.5	28
72	Firstâ€principles prediction of a novel hexagonal phosphorene allotrope. Physica Status Solidi - Rapid Research Letters, 2016, 10, 563-565.	2.4	28

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73	General Programmable Growth of Hybrid Core–Shell Nanostructures with Liquid Metal Nanodroplets. Advanced Materials, 2021, 33, e2008024.	21.0	28
74	One-step hydrothermal fabrication and enhancement of the photocatalytic performance of CdMoO4/CdS hybrid materials. RSC Advances, 2014, 4, 8772.	3.6	27
75	New Two-Dimensional Wide Band Gap Hydrocarbon Insulator by Hydrogenation of a Biphenylene Sheet. Journal of Physical Chemistry Letters, 2021, 12, 8889-8896.	4.6	26
76	The intrinsic thermal transport properties of the biphenylene network and the influence of hydrogenation: a first-principles study. Journal of Materials Chemistry C, 2021, 9, 16945-16951.	5.5	26
77	Hydrothermal synthesis of NiSe2 nanosheets on carbon cloths for photoelectrochemical hydrogen generation. Journal of Materials Science: Materials in Electronics, 2017, 28, 768-772.	2.2	23
78	Anomalous Temperature-Dependent Raman Scattering of Vapor-Deposited Two-Dimensional Bi Thin Films. Journal of Physical Chemistry C, 2018, 122, 24459-24466.	3.1	22
79	First-principles simulations on the new hybrid phases of germanene with alkali metal atoms coverage. Applied Surface Science, 2016, 360, 707-714.	6.1	21
80	ZnSe/CdS/CdSe triple-sensitized ZnO nanowire arrays for multi-bandgap photoelectrochemical hydrogen generation. RSC Advances, 2014, 4, 47429-47435.	3.6	20
81	Design lithium storage materials by lithium adatoms adsorption at the edges of zigzag silicene nanoribbon: A first principle study. Applied Surface Science, 2017, 406, 161-169.	6.1	20
82	Thermoelectric properties of graphene nanoribbons with surface roughness. Applied Physics Letters, 2018, 112, .	3.3	20
83	Synthesis and characterization of few-layer Sb2Te3 nanoplates with electrostatic properties. RSC Advances, 2012, 2, 10694. Quantum oscillation of Rashba spin splitting in topological insulator Bi <mml:math< td=""><td>3.6</td><td>19</td></mml:math<>	3.6	19
84	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:msub><mml:mrow /&gt;<mml:mn>2</mml:mn></mml:mrow </mml:msub> Se <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:msub><mml:mrow /&gt;<mml:mn>3</mml:mn></mml:mrow </mml:msub>induced by the quantum size effects of Pb adlayers.</mml:math 	3.2	19
85	Physical Review B, 2012, 86, . Photoresponse improvement in liquid-exfoliated SnSe nanosheets by reduced graphene oxide hybridization. Journal of Materials Science, 2018, 53, 4371-4377.	3.7	19
86	Broadband Nonlinear Optical Response of Single-Crystalline Bismuth Thin Film. ACS Applied Materials & Lamp; Interfaces, 2019, 11, 35863-35870.	8.0	19
87	Photoelectrochemical water oxidation in α-Fe2O3 thin films enhanced by a controllable wet-chemical Ti-doping strategy and Co–Pi co-catalyst modification. Journal of Materials Science: Materials in Electronics, 2019, 30, 21444-21453.	2.2	19
88	Quantum confinement in graphene quantum dots. Physica Status Solidi - Rapid Research Letters, 2014, 8, 436-440.	2.4	18
89	Tunable photoelectronic properties of hydrogenated-silicene/halogenated-silicene superlattices for water splitting. Journal of Applied Physics, 2020, 127, .	2.5	18
90	Synthesis of Si/TiO2 core–shell nanoparticles as anode material for high performance lithium ion batteries. Journal of Materials Science: Materials in Electronics, 2016, 27, 12813-12819.	2.2	17

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91	Systematic Enumeration of Lowâ€Energy Graphyne Allotropes Based on a Coordinationâ€Constrained Searching Strategy. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000437.	2.4	17
92	Self-Powered Ultra-Broadband and Flexible Photodetectors Based on the Bismuth Films by Vapor Deposition. ACS Applied Electronic Materials, 2020, 2, 1254-1262.	4.3	17
93	One-Photon Solutions to the Multiqubit Multimode Quantum Rabi Model for Fast <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>W</mml:mi></mml:mrow></mml:math> -State Generation. Physical Review Letters, 2021, 127, 043604.	7.8	17
94	Large-Gap Quantum Spin Hall State and Temperature-Induced Lifshitz Transition in Bi <sub>4</sub> Br <sub>4</sub> . ACS Nano, 2022, 16, 3036-3044.	14.6	17
95	Exploring co-catalytic graphene frameworks for improving photocatalytic activity of Tin disulfide nanoplates. Solar Energy, 2017, 157, 905-910.	6.1	16
96	Allotropes of Phosphorus with Remarkable Stability and Intrinsic Piezoelectricity. Physical Review Applied, 2018, 9, .	3.8	16
97	Robust transport of charge carriers in in-plane 1T′-2H MoTe2 homojunctions with ohmic contact. Nano Research, 2021, 14, 1311-1318.	10.4	16
98	Morphology engineering of atomic layer defect-rich CoSe <sub>2</sub> nanosheets for highly selective electrosynthesis of hydrogen peroxide. Journal of Materials Chemistry A, 2021, 9, 21340-21346.	10.3	16
99	Composition-optimized TiO2/CdSxSe1-x core/shell nanowire arrays for photoelectrochemical hydrogen generation. Journal of Applied Physics, 2014, 116, .	2.5	15
100	Ultralow thermal conductivity in Si/GexSi1â^'x core-shell nanowires. Journal of Applied Physics, 2013, 113, .	2.5	14
101	In-situ investigation of graphene oxide under UV irradiation: Evolution of work function. AIP Advances, 2015, 5, .	1.3	14
102	Evolution of the electronic and magnetic properties of zigzag silicene nanoribbon used for hydrogen storage material. International Journal of Hydrogen Energy, 2017, 42, 27184-27205.	7.1	14
103	Valleytronic properties of monolayer WSe2 in external magnetic field. AIP Advances, 2019, 9, .	1.3	14
104	The thermoelectric properties of monolayer SiP and GeP from first-principles calculations. Journal of Applied Physics, 2019, 126, .	2.5	14
105	Role of Atomic Interaction in Electronic Hybridization in Two-Dimensional Ag <sub>2</sub> Ge Nanosheets. Journal of Physical Chemistry C, 2017, 121, 16754-16760.	3.1	13
106	Lateral and Vertical MoSe <sub>2</sub> –MoS <sub>2</sub> Heterostructures via Epitaxial Growth: Triggered by High-Temperature Annealing and Precursor Concentration. Journal of Physical Chemistry Letters, 2019, 10, 5027-5035.	4.6	13
107	Photogalvanicâ€Effectâ€Induced Spinâ€Polarized Current in Defective Silicane with H Vacancies. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000395.	2.4	13
108	Fermi level tuning of topological insulator Bi2(SexTe1â^'x)3 nanoplates. Journal of Applied Physics, 2013, 113, 024306.	2.5	12

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109	Optoelectronic properties of type-II SePtTe/InS van der Waals heterojunction. Journal of Applied Physics, 2020, 128, .	2.5	12
110	Epitaxial Growth of Quasi-One-Dimensional Bismuth-Halide Chains with Atomically Sharp Topological Non-Trivial Edge States. ACS Nano, 2021, 15, 14850-14857.	14.6	12
111	Dual-phase spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /anatase TiO <sub>2</sub> nanosheet anchored 3D reduced graphene oxide aerogel scaffolds as self-supporting electrodes for high-performance Na- and Li-ion batteries. RSC Advances, 2017, 7, 52702-52711.	3.6	11
112	Dirac–Weyl semimetal phase in noncentrosymmetric transition metal monochalcogenides MoTe and WTe. Journal of Materials Chemistry C, 2019, 7, 12151-12159.	5 <b>.</b> 5	11
113	Localization, phases, and transitions in three-dimensional extended Lieb lattices. Physical Review B, 2020, 102, .	3.2	11
114	Morphological alteration of anatase titania nanostructures depend on the amount of Na ion intercalation. Crystal Research and Technology, 2012, 47, 738-745.	1.3	10
115	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
116	Enhanced photoresponse of graphene oxide functionalised SnSe films. AIP Advances, 2018, 8, 075123.	1.3	10
117	Sln <sub>2</sub> Te/TeIn <sub>2</sub> Se: a type-II heterojunction as a water-splitting photocatalyst with high solar energy harvesting. Journal of Materials Chemistry C, 2021, 9, 7734-7744.	5.5	10
118	Synthesis, characterization and electrostatic properties of WS2 nanostructures. AIP Advances, 2014, 4, .	1.3	9
119	<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
120	Electrodeposition of Cu–Ga precursor layer for CuGaS2 solar energy thin film from alcohol solution. Ionics, 2017, 23, 1027-1033.	2.4	9
121	Thermally oxidation synthesis of CuO nanoneedles on Cu foam and its enhanced lithium storage performance. Journal of Materials Science: Materials in Electronics, 2017, 28, 2353-2357.	2.2	9
122	Antimony Thin Film as a Robust Broadband Saturable Absorber. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	2.9	9
123	Photo-response of solution-processed hybrid germanium selenide nanosheets based photoelectrochemical devices. Ceramics International, 2021, 47, 17411-17416.	4.8	9
124	Transport Properties of Zigzag Graphene Nanoribbons Decorated by Carboxyl Group Chains. Journal of Physical Chemistry C, 2011, 115, 21893-21898.	3.1	8
125	Spin transistor based on T-shaped graphene junctions. Journal of Applied Physics, 2011, 110, 033701.	2.5	8
126	Surface Potential of Graphene Oxide Investigated by Kelvin Probe Force Microscopy. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 777-781.	2.1	8

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127	Giant spin splitting, strong valley selective circular dichroism and valley-spin coupling induced in silicene. Physical Review B, 2016, 94, .	3.2	8
128	Ballistic thermoelectric properties of nitrogenated holey graphene nanostructures. Journal of Applied Physics, 2017, 122, .  Levelages amplicated with a supplied properties of nitrogenated holey graphene nanostructures. Journal of Applied Physics, 2017, 122, .  Levelages amplicated with a supplied properties of nitrogenated holey graphene nanostructures. Journal of Applied Physics, 2017, 122, .  Levelages amplicated with a supplied properties of nitrogenated holey graphene nanostructures. Journal of Applied Physics, 2017, 122, .  Levelages amplicated with a supplied properties of nitrogenated holey graphene nanostructures. Journal of Applied Physics, 2017, 122, .  Levelages amplicated with a supplied properties of nitrogenated holey graphene nanostructures. Journal of Applied Physics, 2017, 122, .  Levelages amplicated with a supplied properties of nitrogenated holey graphene nanostructures. Journal of Applied Physics, 2017, 122, .  Levelages amplicated with a supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures. Journal of the supplied properties of nitrogenated holey graphene nanostructures are supplied by the supplied properties of nitrogenated holey graphene nanostructures are supplied by the supplied properties of nitrogenated holey graphene nanostructures are supplied	2.5	8
129	overflow="scroll"> <mml:mi>î²</mml:mi> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"&gt;<mml:mrow><mml:mi>Sn</mml:mi><mml:mi>Se</mml:mi></mml:mrow> with Strong Visible Light Absorbance and Ultrahigh Carrier Mobility, Physical Review Applied, 2020, 13.</mml:math 	3.8	8
130	Dewetting and detachment of Pt nanofilms on graphitic substrates: A molecular dynamics study. Journal of Applied Physics, 2015, 117, 064304.	2.5	7
131	Strain Modulation of Black Phosphorene for the Hydrogen Evolution Reaction Activity. Physica Status Solidi (B): Basic Research, 2021, 258, 2100195.	1.5	7
132	Type-II lateral SnSe/GeTe heterostructures for solar photovoltaic applications with high efficiency. Nanoscale Advances, 2021, 3, 3643-3649.	4.6	7
133	Unique Arrangement of Atoms Leads to Low Thermal Conductivity: A Comparative Study of Monolayer Mg <sub>2</sub> C. Journal of Physical Chemistry Letters, 2021, 12, 10353-10358.	4.6	7
134	Black Phosphorus Quantum Dots as Hole Capturers in Group-VA Monoelemental Heterostructures for the Application of High-Performance Flexible Photodetectors. ACS Sustainable Chemistry and Engineering, 2021, 9, 14918-14926.	6.7	7
135	Enhancement of thermoelectric properties of gamma-graphyne nanoribbons with edge modulation. European Physical Journal B, 2015, 88, 1.	1.5	6
136	First-principles study of the structures and fundamental electronic properties of two-dimensional P <sub>0.5</sub> As <sub>0.5</sub> alloy. Physica Status Solidi (B): Basic Research, 2017, 254, 1700157.	1.5	6
137	Effect of sulphur pressure on properties of ZnS thin film prepared by chemical bath deposition technique. Journal of Materials Science: Materials in Electronics, 2019, 30, 13230-13237.	2.2	6
138	Modulation of the electron transport properties in graphene nanoribbons doped with BN chains. AIP Advances, 2014, 4, 067123.	1.3	5
139	Mechanical behavior of silicon carbide nanoparticles under uniaxial compression. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	5
140	Optimizing the thermoelectric performance of graphyne nanotube via applying radial strain. Journal of Applied Physics, 2017, 121, 125112.	2.5	5
141	Functionalization of the electronic and magnetic properties of silicene by halogen atoms unilateral adsorption: a first-principles study. Journal of Physics Condensed Matter, 2018, 30, 365001.	1.8	5
142	Local conductivity of graphene oxide study by conductive atomic force microscope. Journal of Applied Physics, 2019, 126, .	2.5	5
143	Effects of contact oxidization on the transport properties of Au/ZGNR junctions. Physica Status Solidi - Rapid Research Letters, 2012, 6, 457-459.	2.4	4
144	Photodetectors: Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Selfâ€Powered Photodetector (Adv. Funct. Mater. 18/2017). Advanced Functional Materials, 2017, 27, .	14.9	4

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145	Effect of hydrogen passivation on the decoupling of graphene on SiC(0001) substrate: First-principles calculations. Scientific Reports, 2017, 7, 8461.	3.3	4
146	First-principles study on the structure and electronic property of gas molecules adsorption on Ge2Li2 monolayer. Applied Surface Science, 2018, 442, 390-397.	6.1	4
147	First-principles study on the structure and electronic properties of Ge2H2 and Ge2Li2 nanosheets under electric fields. Physica B: Condensed Matter, 2019, 567, 95-99.	2.7	4
148	2D O-PTl monolayer: a robust large bandgap topological insulator. Journal Physics D: Applied Physics, 2020, 53, 025302.	2.8	4
149	Tunable topologically nontrivial states in newly discovered graphyne allotropes: from Dirac nodal grid to Dirac nodal loop. Nanotechnology, 2021, 32, 485705.	2.6	4
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