

Jianxin Zhong

List of Publications by Year in descending order

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169
papers

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times ranked

8777
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Self-Powered Photodetector. <i>Advanced Functional Materials</i> , 2017, 27, 1606834.	7.8	342
2	Few-Layer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2017, 7, 1700396.	10.2	301
3	High-Performance Photo-Electrochemical Photodetector Based on Liquid-Exfoliated Few-Layered InSe Nanosheets with Enhanced Stability. <i>Advanced Functional Materials</i> , 2018, 28, 1705237.	7.8	258
4	Solar Water Splitting by $\text{TiO}_2/\text{CdS}/\text{Co}^{\text{II}}\text{Pi}$ Nanowire Array Photoanode Enhanced with $\text{Co}^{\text{II}}\text{Pi}$ as Hole Transfer Relay and CdS as Light Absorber. <i>Advanced Functional Materials</i> , 2015, 25, 5706-5713.	7.8	240
5	A black/red phosphorus hybrid as an electrode material for high-performance Li-ion batteries and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6581-6588.	5.2	160
6	Large-scale production of ultrathin topological insulator bismuth telluride nanosheets by a hydrothermal intercalation and exfoliation route. <i>Journal of Materials Chemistry</i> , 2012, 22, 4921.	6.7	158
7	Self-Assembled Three-Dimensional Graphene-Based Aerogel with Embedded Multifarious Functional Nanoparticles and Its Excellent Photoelectrochemical Activities. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 741-748.	3.2	143
8	3D hierarchical porous graphene aerogel with tunable meso-pores on graphene nanosheets for high-performance energy storage. <i>Scientific Reports</i> , 2015, 5, 14229.	1.6	139
9	Enhanced thermoelectric properties in hybrid graphene/boron nitride nanoribbons. <i>Physical Review B</i> , 2012, 86, .	1.1	138
10	Cobalt phosphate modified TiO_2 nanowire arrays as co-catalysts for solar water splitting. <i>Nanoscale</i> , 2015, 7, 6722-6728.	2.8	136
11	MoS_2 -Quantum-Dot-Interspersed $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanosheets with Enhanced Performance for Li- and Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 3349-3358.	7.8	128
12	Upconversion-P25-graphene composite as an advanced sunlight driven photocatalytic hybrid material. <i>Journal of Materials Chemistry</i> , 2012, 22, 11765.	6.7	119
13	Stochastic generation of complex crystal structures combining group and graph theory with application to carbon. <i>Physical Review B</i> , 2018, 97, .	1.1	114
14	Thermal transport in graphyne nanoribbons. <i>Physical Review B</i> , 2012, 85, .	1.1	103
15	Complex Low Energy Tetrahedral Polymorphs of Group IV Elements from First Principles. <i>Physical Review Letters</i> , 2018, 121, 175701.	2.9	95
16	Stone-Wales graphene: A two-dimensional carbon semimetal with magic stability. <i>Physical Review B</i> , 2019, 99, .	1.1	95
17	Temperature-Dependent Raman Responses of the Vapor-Deposited Tin Selenide Ultrathin Flakes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4674-4679.	1.5	94
18	A Bond-order Theory on the Phonon Scattering by Vacancies in Two-dimensional Materials. <i>Scientific Reports</i> , 2014, 4, 5085.	1.6	91

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19	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.	5.2	91
20	Black Phosphorus Nanosheets Modified with Au Nanoparticles as High Conductivity and High Activity Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2020, 10, 2002424.	10.2	79
21	3D Binder-free MoSe ₂ Nanosheets/Carbon Cloth Electrodes for Efficient and Stable Hydrogen Evolution Prepared by Simple Electrophoresis Deposition Strategy. <i>Scientific Reports</i> , 2016, 6, 22516.	1.6	75
22	A rationally designed composite of alternating strata of Si nanoparticles and graphene: a high-performance lithium-ion battery anode. <i>Nanoscale</i> , 2013, 5, 8586.	2.8	72
23	Nanoindentation models and Young's modulus of monolayer graphene: A molecular dynamics study. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	72
24	Hydrothermal synthesis of Ni ₃ S ₂ /graphene electrode and its application in a supercapacitor. <i>RSC Advances</i> , 2014, 4, 37278-37283.	1.7	71
25	In situ shape and phase transformation synthesis of Co ₃ S ₄ nanosheet arrays for high-performance electrochemical supercapacitors. <i>RSC Advances</i> , 2013, 3, 22922.	1.7	66
26	Rational Construction of a Functionalized V ₂ O ₅ Nanosphere/MWCNT Layer-by-Layer Nanoarchitecture as Cathode for Enhanced Performance of Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 5633-5639.	7.8	62
27	Binder-free Si nanoparticles@carbon nanofiber fabric as energy storage material. <i>Electrochimica Acta</i> , 2013, 102, 246-251.	2.6	60
28	Lattice thermal conductivity of borophene from first principle calculation. <i>Scientific Reports</i> , 2017, 7, 45986.	1.6	60
29	Ballistic thermal rectification in asymmetric three-terminal graphene nanojunctions. <i>Physical Review B</i> , 2010, 82, .	1.1	57
30	A novel WS ₂ /NbSe ₂ vdW heterostructure as an ultrafast charging and discharging anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17040-17048.	5.2	53
31	Direct Vapor Deposition Growth of 1T MoTe ₂ on Carbon Cloth for Electrocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2020, 3, 3212-3219.	2.5	52
32	Thermal conductance modulator based on folded graphene nanoribbons. <i>Applied Physics Letters</i> , 2011, 99, 233101.	1.5	50
33	Two-dimensional topological insulators with tunable band gaps: Single-layer HgTe and HgSe. <i>Scientific Reports</i> , 2015, 5, 14115.	1.6	50
34	Thermoelectric properties of gamma-graphyne nanoribbons and nanojunctions. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	49
35	Surface and substrate induced effects on thin films of the topological insulators Bi ₂ Se ₃ and Bi ₂ S ₃ and Bi ₂ Te ₃ . <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	49
36	Electrochemically reduced graphene oxide with porous structure as a binder-free electrode for high-rate supercapacitors. <i>RSC Advances</i> , 2014, 4, 13673.	1.7	48

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37	Tunable Electronic and Optical Properties of 2D Monoelemental Materials Beyond Graphene for Promising Applications. <i>Energy and Environmental Materials</i> , 2021, 4, 522-543.	7.3	48
38	SnS ₂ nanoplates embedded in 3D interconnected graphene network as anode material with superior lithium storage performance. <i>Applied Surface Science</i> , 2015, 355, 7-13.	3.1	47
39	Electrostatic properties of few-layer MoS ₂ films. <i>AIP Advances</i> , 2013, 3, .	0.6	46
40	Phonon mean free path spectrum and thermal conductivity for Si _{1-x} Ge _x nanowires. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	46
41	Few-Layer Antimonene Nanosheet: A Metal-Free Bifunctional Electrocatalyst for Effective Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 4774-4781.	2.5	46
42	Asymmetric transport in asymmetric T-shaped graphene nanoribbons. <i>Applied Physics Letters</i> , 2008, 93, 092104.	1.5	45
43	Transport Properties of Hybrid Zigzag Graphene and Boron Nitride Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10836-10841.	1.5	45
44	Electrochemical properties of high-power supercapacitors using ordered NiO coated Si nanowire array electrodes. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 545-550.	1.1	44
45	An architected TiO ₂ nanosheet with discrete integrated nanocrystalline subunits and its application in lithium batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 21513.	6.7	44
46	Three-dimensional network current collectors supported Si nanowires for lithium-ion battery applications. <i>Electrochimica Acta</i> , 2013, 88, 766-771.	2.6	44
47	TiO ₂ /Bi ₂ S ₃ core-shell nanowire arrays for photoelectrochemical hydrogen generation. <i>RSC Advances</i> , 2015, 5, 13544-13549.	1.7	44
48	Structure, stability and electronic properties of tricycle type graphane. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 427-429.	1.2	43
49	Nitrogen-doped graphene-Fe ₃ O ₄ architecture as anode material for improved Li-ion storage. <i>RSC Advances</i> , 2014, 4, 17653.	1.7	41
50	Flexible Bismuth Selenide /Graphene composite paper for lithium-ion batteries. <i>Ceramics International</i> , 2017, 43, 1437-1442.	2.3	41
51	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.	2.1	41
52	Vertically aligned TiO ₂ /(CdS, CdTe, CdSTe) core/shell nanowire array for photoelectrochemical hydrogen generation. <i>Journal of Power Sources</i> , 2015, 280, 5-11.	4.0	40
53	Ultraviolet, visible, and near infrared photoresponse properties of solution processed graphene oxide. <i>Applied Surface Science</i> , 2013, 266, 332-336.	3.1	39
54	Strain engineering the structures and electronic properties of Janus monolayer transition-metal dichalcogenides. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	39

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55	Large-scale carambola-like V ₂ O ₅ nanoflowers arrays on microporous reed carbon as improved electrochemical performances lithium-ion batteries cathode. <i>Journal of Energy Chemistry</i> , 2020, 51, 388-395.	7.1	38
56	Hydrothermal exfoliated molybdenum disulfide nanosheets as anode material for lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2014, 23, 207-212.	7.1	36
57	Anisotropic thermal transport in Weyl semimetal TaAs: a first principles calculation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16709-16714.	1.3	36
58	Si-Cmma: A silicon thin film with excellent stability and Dirac nodal loop. <i>Physical Review B</i> , 2019, 100, .	1.1	36
59	Unified superradiant phase transitions. <i>Physical Review A</i> , 2019, 100, .	1.0	36
60	Density functional theory study of Fe adatoms adsorbed monolayer and bilayer MoS ₂ sheets. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	35
61	Photodetectors Based on SnS ₂ /Graphene Heterostructure on Rigid and Flexible Substrates. <i>ChemNanoMat</i> , 2018, 4, 373-378.	1.5	34
62	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.	2.1	34
63	The structural, electronic and magnetic properties of bi-layered MoS ₂ with transition-metals doped in the interlayer. <i>RSC Advances</i> , 2013, 3, 12939.	1.7	33
64	Cobalt phosphate modified 3D TiO ₂ /BiVO ₄ composite inverse opals photoanode for enhanced photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2019, 464, 544-551.	3.1	33
65	Newly discovered graphyne allotrope with rare and robust Dirac node loop. <i>Nanoscale</i> , 2021, 13, 3564-3571.	2.8	33
66	Introduction of nitrogen defects into a graphitic carbon nitride framework by selenium vapor treatment for enhanced photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2019, 476, 552-559.	3.1	32
67	Five low energy phosphorene allotropes constructed through gene segments recombination. <i>Scientific Reports</i> , 2017, 7, 46431.	1.6	31
68	Phase controllable synthesis of SnSe and SnSe ₂ films with tunable photoresponse properties. <i>Applied Surface Science</i> , 2021, 541, 148615.	3.1	31
69	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, .	1.5	30
70	Electron transport of folded graphene nanoribbons. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	28
71	Size and boundary scattering controlled contribution of spectral phonons to the thermal conductivity in graphene ribbons. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	28
72	First-principles prediction of a novel hexagonal phosphorene allotrope. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 563-565.	1.2	28

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73	General Programmable Growth of Hybrid Core-Shell Nanostructures with Liquid Metal Nanodroplets. <i>Advanced Materials</i> , 2021, 33, e2008024.	11.1	28
74	One-step hydrothermal fabrication and enhancement of the photocatalytic performance of CdMoO ₄ /CdS hybrid materials. <i>RSC Advances</i> , 2014, 4, 8772.	1.7	27
75	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.	2.1	26
76	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.	2.7	26
77	Hydrothermal synthesis of NiSe ₂ nanosheets on carbon cloths for photoelectrochemical hydrogen generation. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 768-772.	1.1	23
78	Anomalous Temperature-Dependent Raman Scattering of Vapor-Deposited Two-Dimensional Bi Thin Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24459-24466.	1.5	22
79	First-principles simulations on the new hybrid phases of germanene with alkali metal atoms coverage. <i>Applied Surface Science</i> , 2016, 360, 707-714.	3.1	21
80	ZnSe/CdS/CdSe triple-sensitized ZnO nanowire arrays for multi-bandgap photoelectrochemical hydrogen generation. <i>RSC Advances</i> , 2014, 4, 47429-47435.	1.7	20
81	Design lithium storage materials by lithium adatoms adsorption at the edges of zigzag silicene nanoribbon: A first principle study. <i>Applied Surface Science</i> , 2017, 406, 161-169.	3.1	20
82	Thermoelectric properties of graphene nanoribbons with surface roughness. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	20
83	Synthesis and characterization of few-layer Sb ₂ Te ₃ nanoplates with electrostatic properties. <i>RSC Advances</i> , 2012, 2, 10694.	1.7	19
84	Quantum oscillation of Rashba spin splitting in topological insulator Bi ₂ Se ₃ induced by the quantum size effects of Pb adlayers. <i>Physical Review B</i> , 2012, 86, .	1.1	19
85	Photoresponse improvement in liquid-exfoliated SnSe nanosheets by reduced graphene oxide hybridization. <i>Journal of Materials Science</i> , 2018, 53, 4371-4377.	1.7	19
86	Broadband Nonlinear Optical Response of Single-Crystalline Bismuth Thin Film. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35863-35870.	4.0	19
87	Photoelectrochemical water oxidation in $\hat{\pm}$ -Fe ₂ O ₃ thin films enhanced by a controllable wet-chemical Ti-doping strategy and Co-Pi co-catalyst modification. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 21444-21453.	1.1	19
88	Quantum confinement in graphene quantum dots. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 436-440.	1.2	18
89	Tunable photoelectronic properties of hydrogenated-silicene/halogenated-silicene superlattices for water splitting. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	18
90	Synthesis of Si/TiO ₂ core-shell nanoparticles as anode material for high performance lithium ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12813-12819.	1.1	17

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91	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.	1.2	17
92	Self-Powered Ultra-Broadband and Flexible Photodetectors Based on the Bismuth Films by Vapor Deposition. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1254-1262.	2.0	17
93	One-Photon Solutions to the Multiqubit Multimode Quantum Rabi Model for Fast W -State Generation. <i>Physical Review Letters</i> , 2021, 127, 043604.	2.9	17
94	Large-Gap Quantum Spin Hall State and Temperature-Induced Lifshitz Transition in Bi_4Br_4 . <i>ACS Nano</i> , 2022, 16, 3036-3044.	7.3	17
95	Exploring co-catalytic graphene frameworks for improving photocatalytic activity of Tin disulfide nanoplates. <i>Solar Energy</i> , 2017, 157, 905-910.	2.9	16
96	Allotropes of Phosphorus with Remarkable Stability and Intrinsic Piezoelectricity. <i>Physical Review Applied</i> , 2018, 9, .	1.5	16
97	Robust transport of charge carriers in in-plane 1Å^2 - 2H MoTe_2 homojunctions with ohmic contact. <i>Nano Research</i> , 2021, 14, 1311-1318.	5.8	16
98	Morphology engineering of atomic layer defect-rich CoSe_2 nanosheets for highly selective electrosynthesis of hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21340-21346.	5.2	16
99	Composition-optimized $\text{TiO}_2/\text{CdS}_x\text{Se}_{1-x}$ core/shell nanowire arrays for photoelectrochemical hydrogen generation. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	15
100	Ultralow thermal conductivity in $\text{Si}/\text{Ge}_x\text{Si}_{1-x}$ core-shell nanowires. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	14
101	In-situ investigation of graphene oxide under UV irradiation: Evolution of work function. <i>AIP Advances</i> , 2015, 5, .	0.6	14
102	Evolution of the electronic and magnetic properties of zigzag silicene nanoribbon used for hydrogen storage material. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27184-27205.	3.8	14
103	Valleytronic properties of monolayer WSe_2 in external magnetic field. <i>AIP Advances</i> , 2019, 9, .	0.6	14
104	The thermoelectric properties of monolayer SiP and GeP from first-principles calculations. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	14
105	Role of Atomic Interaction in Electronic Hybridization in Two-Dimensional Ag_2Ge Nanosheets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16754-16760.	1.5	13
106	Lateral and Vertical MoSe_2 MoS_2 Heterostructures via Epitaxial Growth: Triggered by High-Temperature Annealing and Precursor Concentration. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5027-5035.	2.1	13
107	Photogalvanic-Effect-Induced Spin-Polarized Current in Defective Silicene with H Vacancies. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000395.	1.2	13
108	Fermi level tuning of topological insulator $\text{Bi}_2(\text{SexTe}_{1-x})_3$ nanoplates. <i>Journal of Applied Physics</i> , 2013, 113, 024306.	1.1	12

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109	Optoelectronic properties of type-II SePtTe/InS van der Waals heterojunction. Journal of Applied Physics, 2020, 128, .	1.1	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.	7.3	12
111	Dual-phase spinel Li ₄ Ti ₅ O ₁₂ /anatase TiO ₂ 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.	1.7	11
112	Dirac-Weyl semimetal phase in noncentrosymmetric transition metal monochalcogenides MoTe and WTe. Journal of Materials Chemistry C, 2019, 7, 12151-12159.	2.7	11
113	Localization, phases, and transitions in three-dimensional extended Lieb lattices. Physical Review B, 2020, 102, .	1.1	11
114	Morphological alteration of anatase titania nanostructures depend on the amount of Na ion intercalation. Crystal Research and Technology, 2012, 47, 738-745.	0.6	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, .	1.1	10
116	Enhanced photoresponse of graphene oxide functionalised SnSe films. AIP Advances, 2018, 8, 075123.	0.6	10
117	Sn ₂ Te/TeIn ₂ Se: a type-II heterojunction as a water-splitting photocatalyst with high solar energy harvesting. Journal of Materials Chemistry C, 2021, 9, 7734-7744.	2.7	10
118	Synthesis, characterization and electrostatic properties of WS ₂ nanostructures. AIP Advances, 2014, 4, .	0.6	9
119	<i>Ab initio</i> prediction of a new allotrope of two-dimensional silicon. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600422.	1.2	9
120	Electrodeposition of Cu-Ga precursor layer for CuGaS ₂ solar energy thin film from alcohol solution. Ionics, 2017, 23, 1027-1033.	1.2	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.	1.1	9
122	Antimony Thin Film as a Robust Broadband Saturable Absorber. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	1.9	9
123	Photo-response of solution-processed hybrid germanium selenide nanosheets based photoelectrochemical devices. Ceramics International, 2021, 47, 17411-17416.	2.3	9
124	Transport Properties of Zigzag Graphene Nanoribbons Decorated by Carboxyl Group Chains. Journal of Physical Chemistry C, 2011, 115, 21893-21898.	1.5	8
125	Spin transistor based on T-shaped graphene junctions. Journal of Applied Physics, 2011, 110, 033701.	1.1	8
126	Surface Potential of Graphene Oxide Investigated by Kelvin Probe Force Microscopy. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 777-781.	1.0	8

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127	Giant spin splitting, strong valley selective circular dichroism and valley-spin coupling induced in silicene. <i>Physical Review B</i> , 2016, 94, .	1.1	8
128	Ballistic thermoelectric properties of nitrogenated holey graphene nanostructures. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	8
129	Two-layer SnSe GeTe heterostructure with strong visible light absorbance and ultrahigh carrier mobility. <i>Physical Review Applied</i> , 2020, 13, .	1.5	8
130	Dewetting and detachment of Pt nanofilms on graphitic substrates: A molecular dynamics study. <i>Journal of Applied Physics</i> , 2015, 117, 064304.	1.1	7
131	Strain Modulation of Black Phosphorene for the Hydrogen Evolution Reaction Activity. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2100195.	0.7	7
132	Type-II lateral SnSe/GeTe heterostructures for solar photovoltaic applications with high efficiency. <i>Nanoscale Advances</i> , 2021, 3, 3643-3649.	2.2	7
133	Unique Arrangement of Atoms Leads to Low Thermal Conductivity: A Comparative Study of Monolayer Mg_2C . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10353-10358.	2.1	7
134	Black Phosphorus Quantum Dots as Hole Capturers in Group-VA Monoelemental Heterostructures for the Application of High-Performance Flexible Photodetectors. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14918-14926.	3.2	7
135	Enhancement of thermoelectric properties of gamma-graphyne nanoribbons with edge modulation. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	6
136	First-principles study of the structures and fundamental electronic properties of two-dimensional $\text{P}_{0.5}\text{As}_{0.5}$ alloy. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700157.	0.7	6
137	Effect of sulphur pressure on properties of ZnS thin film prepared by chemical bath deposition technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 13230-13237.	1.1	6
138	Modulation of the electron transport properties in graphene nanoribbons doped with BN chains. <i>AIP Advances</i> , 2014, 4, 067123.	0.6	5
139	Mechanical behavior of silicon carbide nanoparticles under uniaxial compression. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	5
140	Optimizing the thermoelectric performance of graphyne nanotube via applying radial strain. <i>Journal of Applied Physics</i> , 2017, 121, 125112.	1.1	5
141	Functionalization of the electronic and magnetic properties of silicene by halogen atoms unilateral adsorption: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 365001.	0.7	5
142	Local conductivity of graphene oxide study by conductive atomic force microscope. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	5
143	Effects of contact oxidization on the transport properties of Au/ZGNR junctions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 457-459.	1.2	4
144	Photodetectors: Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Self-Powered Photodetector (<i>Adv. Funct. Mater.</i> 18/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	4

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145	Effect of hydrogen passivation on the decoupling of graphene on SiC(0001) substrate: First-principles calculations. <i>Scientific Reports</i> , 2017, 7, 8461.	1.6	4
146	First-principles study on the structure and electronic property of gas molecules adsorption on Ge ₂ Li ₂ monolayer. <i>Applied Surface Science</i> , 2018, 442, 390-397.	3.1	4
147	First-principles study on the structure and electronic properties of Ge ₂ H ₂ and Ge ₂ Li ₂ nanosheets under electric fields. <i>Physica B: Condensed Matter</i> , 2019, 567, 95-99.	1.3	4
148	2D O-PTI monolayer: a robust large bandgap topological insulator. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 025302.	1.3	4
149	Tunable topologically nontrivial states in newly discovered graphyne allotropes: from Dirac nodal grid to Dirac nodal loop. <i>Nanotechnology</i> , 2021, 32, 485705.	1.3	4
150	Tuning the Dirac cone of the topological insulator Bi ₂ Te ₃ thin films by substitutional nonmagnetic atoms. <i>Physica B: Condensed Matter</i> , 2015, 456, 355-358.	1.3	3
151	Facile hydrothermally synthesis of hexagon tin disulfide nanosheets for high-performance photocatalytic hydrogen generation. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 19614-19619.	1.1	3
152	Weyl semimetal phase in the noncentrosymmetric superlattice W ₂ XY(X,Y=S,Se,Te,X≠Y). <i>Physical Review B</i> , 2019, 100, .	1.1	3
153	Strong temperature-strain coupling in the interface of Sb thin film on flexible PDMS substrate. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	3
154	Electronic and Spin-Dependent Optical Properties of Fe-Adsorbed Armchair Silicene/Silicane Superlattices. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900494.	1.2	3
155	Lithium-Ion Batteries: Rational Construction of a Functionalized V ₂ O ₅ Nanosphere/MWCNT Layer-by-Layer Nanoarchitecture as Cathode for Enhanced Performance of Lithium-Ion Batteries (Adv.) <i>Tj ETQq1 1 0z784314 r2BT /Over</i>	1.1	3
156	Fermi level engineering of topological insulator films by tuning the substrates. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 435003.	0.7	2
157	Enhancement of thermoelectric performance of gamma-graphyne through incorporating a hexagonal quantum dot. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 205-210.	1.0	2
158	Geometries and Electronic Properties of Black Phosphorus/MoS ₂ Heterostructure with P Atom Vacancies: First Principles Calculations. <i>Journal of Electronic Materials</i> , 2020, 49, 5730-5738.	1.0	2
159	Photoresponse Properties of Bi₂S₃/Se₃ Nanoplates. <i>Science of Advanced Materials</i> , 2015, 7, 1589-1593.	0.1	2
160	The modification of central B/N atom chain on electron transport of graphene nanoribbons. <i>Journal of Applied Physics</i> , 2012, 112, 113713.	1.1	1
161	Effective Fermi level tuning of Bi ₂ Se ₃ by introducing CdBi/CaBi dopant. <i>RSC Advances</i> , 2014, 4, 10499.	1.7	1
162	Effect of Spark Plasma Sintering Pressure on the Microstructure of Carbon Nanofibers. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 513-517.	1.0	1

#	ARTICLE	IF	CITATIONS
163	Response to "Comment on "Nanoindentation models and Young's modulus of monolayer graphene: A molecular dynamics study" [Appl. Phys. Lett. 110 , 176101 (2017)]. Applied Physics Letters, 2017, 110, .		1
164	The thermoelectric performance of dumbbell silicene nanoribbons. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 511-517.	1.0	1
165	Excellent thermoelectric performance of open framework Si ₂₄ nanowires from density functional based tight-binding calculation. Journal of Applied Physics, 2020, 128, 215108.	1.1	1
166	Periodic oscillation of quantum diffusion in coupled one-dimensional systems. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	2.0	1
167	Effects of Charge Transfer on the Critical Distance of the Interlayer Ferromagnetic Order Transition in SCrSe-Based van der Waals Bilayers. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100213.	1.2	0
168	Enhanced valleytronic properties in germanene by direct proximity to heavy metal layer. Journal of Physics Condensed Matter, 2020, 33, 095502.	0.7	0
169	Alloying driven multifold fermion-to-Weyl semimetal transition in CoSi _{1-x} A _x (A= Ge, Sn). Physica Status Solidi - Rapid Research Letters, 0, , .	1.2	0