

Jianxin Zhong

List of Publications by Year in descending order

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169
papers

6,333
citations

57631

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79541

73
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170
docs citations

170
times ranked

8777
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Gap Quantum Spin Hall State and Temperature-Induced Lifshitz Transition in Bi_4Br_4 . ACS Nano, 2022, 16, 3036-3044.	7.3	17
2	Periodic oscillation of quantum diffusion in coupled one-dimensional systems. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	2.0	1
3	Phase controllable synthesis of SnSe and SnSe ₂ films with tunable photoresponse properties. Applied Surface Science, 2021, 541, 148615.	3.1	31
4	Tunable Electronic and Optical Properties of 2D Monoelemental Materials Beyond Graphene for Promising Applications. Energy and Environmental Materials, 2021, 4, 522-543.	7.3	48
5	Robust transport of charge carriers in in-plane 1T ϵ^2 -2H MoTe ₂ homojunctions with ohmic contact. Nano Research, 2021, 14, 1311-1318.	5.8	16
6	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.	2.1	41
7	Newly discovered graphyne allotrope with rare and robust Dirac node loop. Nanoscale, 2021, 13, 3564-3571.	2.8	33
8	Morphology engineering of atomic layer defect-rich CoSe ₂ nanosheets for highly selective electrosynthesis of hydrogen peroxide. Journal of Materials Chemistry A, 2021, 9, 21340-21346.	5.2	16
9	General Programmable Growth of Hybrid Core-Shell Nanostructures with Liquid Metal Nanodroplets. Advanced Materials, 2021, 33, e2008024.	11.1	28
10	Antimony Thin Film as a Robust Broadband Saturable Absorber. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	1.9	9
11	Photo-response of solution-processed hybrid germanium selenide nanosheets based photoelectrochemical devices. Ceramics International, 2021, 47, 17411-17416.	2.3	9
12	Effects of Charge Transfer on the Critical Distance of the Interlayer Ferromagnetic Order Transition in S ₂ CrSe ₂ -Based van der Waals Bilayers. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100213.	1.2	0
13	One-Photon Solutions to the Multiqubit Multimode Quantum Rabi Model for Fast $\langle \mathbb{W} \rangle$ -State Generation. Physical Review Letters, 2021, 127, 043604.	2.9	17
14	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
15	Strain Modulation of Black Phosphorene for the Hydrogen Evolution Reaction Activity. Physica Status Solidi (B): Basic Research, 2021, 258, 2100195.	0.7	7
16	New Two-Dimensional Wide Band Gap Hydrocarbon Insulator by Hydrogenation of a Biphenylene Sheet. Journal of Physical Chemistry Letters, 2021, 12, 8889-8896.	2.1	26
17	Tunable topologically nontrivial states in newly discovered graphyne allotropes: from Dirac nodal grid to Dirac nodal loop. Nanotechnology, 2021, 32, 485705.	1.3	4
18	S ₂ Te/Tel 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

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19	Type-II lateral SnSe/GeTe heterostructures for solar photovoltaic applications with high efficiency. <i>Nanoscale Advances</i> , 2021, 3, 3643-3649.	2.2	7
20	Unique Arrangement of Atoms Leads to Low Thermal Conductivity: A Comparative Study of Monolayer Mg ₂ C. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10353-10358.	2.1	7
21	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
22	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
23	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
24	2D O-PTI monolayer: a robust large bandgap topological insulator. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 025302.	1.3	4
25	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
26	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
27	Photogalvanic Effect-Induced Spin-Polarized Current in Defective Silicane with H Vacancies. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000395.	1.2	13
28	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
29	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
30	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
31	Optoelectronic properties of type-II SePtTe/InS van der Waals heterojunction. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	12
32	Localization, phases, and transitions in three-dimensional extended Lieb lattices. <i>Physical Review B</i> , 2020, 102, .	1.1	11
33	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.	1.1	1
34	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
35	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
36	Tunable photoelectronic properties of hydrogenated-silicene/halogenated-silicene superlattices for water splitting. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	18

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55	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
56	Strain engineering the structures and electronic properties of Janus monolayer transition-metal dichalcogenides. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	39
57	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
58	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
59	Allotropes of Phosphorus with Remarkable Stability and Intrinsic Piezoelectricity. <i>Physical Review Applied</i> , 2018, 9, .	1.5	16
60	Photodetectors Based on SnS ₂ /Graphene Heterostructure on Rigid and Flexible Substrates. <i>ChemNanoMat</i> , 2018, 4, 373-378.	1.5	34
61	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
62	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
63	High-Performance Photoelectrochemical Photodetector Based on Liquid-Exfoliated Few-Layered InSe Nanosheets with Enhanced Stability. <i>Advanced Functional Materials</i> , 2018, 28, 1705237.	7.8	258
64	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
65	The thermoelectric performance of dumbbell silicene nanoribbons. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 511-517.	1.0	1
66	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
67	Complex Low Energy Tetrahedral Polymorphs of Group IV Elements from First Principles. <i>Physical Review Letters</i> , 2018, 121, 175701.	2.9	95
68	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
69	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, .	1.1	10
70	Enhanced photoresponse of graphene oxide functionalised SnSe films. <i>AIP Advances</i> , 2018, 8, 075123.	0.6	10
71	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
72	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

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73	Thermoelectric properties of graphene nanoribbons with surface roughness. Applied Physics Letters, 2018, 112, .	1.5	20
74	<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
75	Temperature-Dependent Raman Responses of the Vapor-Deposited Tin Selenide Ultrathin Flakes. Journal of Physical Chemistry C, 2017, 121, 4674-4679.	1.5	94
76	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.	5.2	160
77	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.	3.1	20
78	Photodetectors: Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Self-Powered Photodetector (Adv. Funct. Mater. 18/2017). Advanced Functional Materials, 2017, 27, .	7.8	4
79	Five low energy phosphorene allotropes constructed through gene segments recombination. Scientific Reports, 2017, 7, 46431.	1.6	31
80	Enhancement of thermoelectric performance of gamma-graphyne through incorporating a hexagonal quantum dot. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 205-210.	1.0	2
81	Few-Layer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2017, 7, 1700396.	10.2	301
82	First-principles study of the structures and fundamental electronic properties of two-dimensional $P_{0.5}As_{0.5}$ alloy. Physica Status Solidi (B): Basic Research, 2017, 254, 1700157.	0.7	6
83	Lattice thermal conductivity of borophene from first principle calculation. Scientific Reports, 2017, 7, 45986.	1.6	60
84	Optimizing the thermoelectric performance of graphyne nanotube via applying radial strain. Journal of Applied Physics, 2017, 121, 125112.	1.1	5
85	Role of Atomic Interaction in Electronic Hybridization in Two-Dimensional Ag_2Ge Nanosheets. Journal of Physical Chemistry C, 2017, 121, 16754-16760.	1.5	13
86	Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Self-Powered Photodetector. Advanced Functional Materials, 2017, 27, 1606834.	7.8	342
87	Effect of hydrogen passivation on the decoupling of graphene on SiC(0001) substrate: First-principles calculations. Scientific Reports, 2017, 7, 8461.	1.6	4
88	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.	3.8	14
89	Exploring co-catalytic graphene frameworks for improving photocatalytic activity of Tin disulfide nanoplates. Solar Energy, 2017, 157, 905-910.	2.9	16
90	Dual-phase spinel $Li_4Ti_5O_{12}$ /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

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91	Ballistic thermoelectric properties of nitrogenated holey graphene nanostructures. Journal of Applied Physics, 2017, 122, .	1.1	8
92	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, .	1.1	1
93	Electrodeposition of Cu-Ga precursor layer for CuGaS ₂ solar energy thin film from alcohol solution. Ionics, 2017, 23, 1027-1033.	1.2	9
94	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
95	Flexible Bismuth Selenide /Graphene composite paper for lithium-ion batteries. Ceramics International, 2017, 43, 1437-1442.	2.3	41
96	Hydrothermal synthesis of NiSe ₂ nanosheets on carbon cloths for photoelectrochemical hydrogen generation. Journal of Materials Science: Materials in Electronics, 2017, 28, 768-772.	1.1	23
97	First-principles prediction of a novel hexagonal phosphorene allotrope. Physica Status Solidi - Rapid Research Letters, 2016, 10, 563-565.	1.2	28
98	Synthesis of Si/TiO ₂ core-shell nanoparticles as anode material for high performance lithium ion batteries. Journal of Materials Science: Materials in Electronics, 2016, 27, 12813-12819.	1.1	17
99	Giant spin splitting, strong valley selective circular dichroism and valley-spin coupling induced in silicene. Physical Review B, 2016, 94, .	1.1	8
100	3D Binder-free MoSe ₂ Nanosheets/Carbon Cloth Electrodes for Efficient and Stable Hydrogen Evolution Prepared by Simple Electrophoresis Deposition Strategy. Scientific Reports, 2016, 6, 22516.	1.6	75
101	MoS ₂ -Quantum-Dot-Interspersed Li ₄ Ti ₅ O ₁₂ Nanosheets with Enhanced Performance for Li- and Na-Ion Batteries. Advanced Functional Materials, 2016, 26, 3349-3358.	7.8	128
102	Anisotropic thermal transport in Weyl semimetal TaAs: a first principles calculation. Physical Chemistry Chemical Physics, 2016, 18, 16709-16714.	1.3	36
103	First-principles simulations on the new hybrid phases of germanene with alkali metal atoms coverage. Applied Surface Science, 2016, 360, 707-714.	3.1	21
104	Mechanical behavior of silicon carbide nanoparticles under uniaxial compression. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	5
105	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.) Tj ETQq1 1 0z784314 rBT /Overlo		
106	3D hierarchical porous graphene aerogel with tunable meso-pores on graphene nanosheets for high-performance energy storage. Scientific Reports, 2015, 5, 14229.	1.6	139
107	Two-dimensional topological insulators with tunable band gaps: Single-layer HgTe and HgSe. Scientific Reports, 2015, 5, 14115.	1.6	50
108	In-situ investigation of graphene oxide under UV irradiation: Evolution of work function. AIP Advances, 2015, 5, .	0.6	14

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109	Rational Construction of a Functionalized V_2O_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
110	Solar Water Splitting by $TiO_2/CdS/Co^{II}P$ Nanowire Array Photoanode Enhanced with $Co^{II}P$ as Hole Transfer Relay and CdS as Light Absorber. <i>Advanced Functional Materials</i> , 2015, 25, 5706-5713.	7.8	240
111	Surface Potential of Graphene Oxide Investigated by Kelvin Probe Force Microscopy. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 777-781.	1.0	8
112	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
113	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
114	TiO_2/Bi_2S_3 core-shell nanowire arrays for photoelectrochemical hydrogen generation. <i>RSC Advances</i> , 2015, 5, 13544-13549.	1.7	44
115	Cobalt phosphate modified TiO_2 nanowire arrays as co-catalysts for solar water splitting. <i>Nanoscale</i> , 2015, 7, 6722-6728.	2.8	136
116	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
117	Enhancement of thermoelectric properties of gamma-graphyne nanoribbons with edge modulation. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	6
118	Fermi level engineering of topological insulator films by tuning the substrates. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 435003.	0.7	2
119	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
120	Tuning the Dirac cone of the topological insulator Bi_2Te_3 thin films by substitutional nonmagnetic atoms. <i>Physica B: Condensed Matter</i> , 2015, 456, 355-358.	1.3	3
121	Photoresponse Properties of Bi_2S_3/Se_3 Nanoplates. <i>Science of Advanced Materials</i> , 2015, 7, 1589-1593.	0.1	2
122	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
123	Modulation of the electron transport properties in graphene nanoribbons doped with BN chains. <i>AIP Advances</i> , 2014, 4, 067123.	0.6	5
124	Quantum confinement in graphene quantum dots. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 436-440.	1.2	18
125	Composition-optimized TiO_2/CdS_xSe_{1-x} core/shell nanowire arrays for photoelectrochemical hydrogen generation. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	15
126	Synthesis, characterization and electrostatic properties of WS_2 nanostructures. <i>AIP Advances</i> , 2014, 4, .	0.6	9

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127	Effective Fermi level tuning of Bi ₂ Se ₃ by introducing CdBi/CaBi dopant. RSC Advances, 2014, 4, 10499.	1.7	1
128	One-step hydrothermal fabrication and enhancement of the photocatalytic performance of CdMoO ₄ /CdS hybrid materials. RSC Advances, 2014, 4, 8772.	1.7	27
129	Electrochemically reduced graphene oxide with porous structure as a binder-free electrode for high-rate supercapacitors. RSC Advances, 2014, 4, 13673.	1.7	48
130	Size and boundary scattering controlled contribution of spectral phonons to the thermal conductivity in graphene ribbons. Journal of Applied Physics, 2014, 115, .	1.1	28
131	ZnSe/CdS/CdSe triple-sensitized ZnO nanowire arrays for multi-bandgap photoelectrochemical hydrogen generation. RSC Advances, 2014, 4, 47429-47435.	1.7	20
132	Nitrogen-doped graphene@Fe ₃ O ₄ architecture as anode material for improved Li-ion storage. RSC Advances, 2014, 4, 17653.	1.7	41
133	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.	3.2	143
134	Hydrothermal synthesis of Ni ₃ S ₂ /graphene electrode and its application in a supercapacitor. RSC Advances, 2014, 4, 37278-37283.	1.7	71
135	Hydrothermal exfoliated molybdenum disulfide nanosheets as anode material for lithium ion batteries. Journal of Energy Chemistry, 2014, 23, 207-212.	7.1	36
136	A Bond-order Theory on the Phonon Scattering by Vacancies in Two-dimensional Materials. Scientific Reports, 2014, 4, 5085.	1.6	91
137	A rationally designed composite of alternating strata of Si nanoparticles and graphene: a high-performance lithium-ion battery anode. Nanoscale, 2013, 5, 8586.	2.8	72
138	In situ shape and phase transformation synthesis of Co ₃ S ₄ nanosheet arrays for high-performance electrochemical supercapacitors. RSC Advances, 2013, 3, 22922.	1.7	66
139	The structural, electronic and magnetic properties of bi-layered MoS ₂ with transition-metals doped in the interlayer. RSC Advances, 2013, 3, 12939.	1.7	33
140	Density functional theory study of Fe adatoms adsorbed monolayer and bilayer MoS ₂ sheets. Journal of Applied Physics, 2013, 114, .	1.1	35
141	Thermoelectric properties of gamma-graphyne nanoribbons and nanojunctions. Journal of Applied Physics, 2013, 114, .	1.1	49
142	Ultraviolet, visible, and near infrared photoresponse properties of solution processed graphene oxide. Applied Surface Science, 2013, 266, 332-336.	3.1	39
143	Three-dimensional network current collectors supported Si nanowires for lithium-ion battery applications. Electrochimica Acta, 2013, 88, 766-771.	2.6	44
144	Binder-free Si nanoparticles@carbon nanofiber fabric as energy storage material. Electrochimica Acta, 2013, 102, 246-251.	2.6	60

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145	Ultralow thermal conductivity in Si/GexSi1-x core-shell nanowires. Journal of Applied Physics, 2013, 113, .	1.1	14
146	Nanoindentation models and Young's modulus of monolayer graphene: A molecular dynamics study. Applied Physics Letters, 2013, 102, .	1.5	72
147	Electrostatic properties of few-layer MoS2 films. AIP Advances, 2013, 3, .	0.6	46
148	Fermi level tuning of topological insulator Bi2(SexTe1-x)3 nanoplates. Journal of Applied Physics, 2013, 113, 024306.	1.1	12
149	Surface and substrate induced effects on thin films of the topological insulators Bi ₂ Se ₃ and Bi ₂ Te ₃ . Physical Review B, 2012, 86, .	1.1	49
150	Enhanced thermoelectric properties in hybrid graphene/boron nitride nanoribbons. Physical Review B, 2012, 86, .	1.1	138
151	Effects of contact oxidization on the transport properties of Au/ZGNR junctions. Physica Status Solidi - Rapid Research Letters, 2012, 6, 457-459.	1.2	4
152	An architected TiO2 nanosheet with discrete integrated nanocrystalline subunits and its application in lithium batteries. Journal of Materials Chemistry, 2012, 22, 21513.	6.7	44
153	Structure, stability and electronic properties of tricycle type graphane. Physica Status Solidi - Rapid Research Letters, 2012, 6, 427-429.	1.2	43
154	Synthesis and characterization of few-layer Sb2Te3 nanoplates with electrostatic properties. RSC Advances, 2012, 2, 10694.	1.7	19
155	The modification of central B/N atom chain on electron transport of graphene nanoribbons. Journal of Applied Physics, 2012, 112, 113713.	1.1	1
156	Quantum oscillation of Rashba spin splitting in topological insulator Bi ₂ Se ₃ induced by the quantum size effects of Pb adlayers. Physical Review B, 2012, 86, .	1.1	19
157	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
158	Upconversion-P25-graphene composite as an advanced sunlight driven photocatalytic hybrid material. Journal of Materials Chemistry, 2012, 22, 11765.	6.7	119
159	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
160	Thermal transport in graphyne nanoribbons. Physical Review B, 2012, 85, .	1.1	103
161	Transport Properties of Zigzag Graphene Nanoribbons Decorated by Carboxyl Group Chains. Journal of Physical Chemistry C, 2011, 115, 21893-21898.	1.5	8
162	Transport Properties of Hybrid Zigzag Graphene and Boron Nitride Nanoribbons. Journal of Physical Chemistry C, 2011, 115, 10836-10841.	1.5	45

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163	Spin transistor based on T-shaped graphene junctions. Journal of Applied Physics, 2011, 110, 033701.	1.1	8
164	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.	1.1	44
165	Thermal conductance modulator based on folded graphene nanoribbons. Applied Physics Letters, 2011, 99, 233101.	1.5	50
166	Ballistic thermal rectification in asymmetric three-terminal graphene nanojunctions. Physical Review B, 2010, 82, .	1.1	57
167	Electron transport of folded graphene nanoribbons. Journal of Applied Physics, 2009, 106, .	1.1	28
168	Asymmetric transport in asymmetric T-shaped graphene nanoribbons. Applied Physics Letters, 2008, 93, 092104.	1.5	45
169	Alloying driven multifold fermion to Weyl semimetal transition in $\text{CoSi}_{1-x}\text{A}_x$ ($\text{A} = \text{Ge, Sn}$). Physica Status Solidi - Rapid Research Letters, 0, , .	1.2	0