

Zhenhai Wang

List of Publications by Year in descending order

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35
papers

1,803
citations

361413

20
h-index

361022

35
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36
all docs

36
docs citations

36
times ranked

2477
citing authors

#	ARTICLE	IF	CITATIONS
1	Phagraphene: A Low-Energy Graphene Allotrope Composed of 5-7 Carbon Rings with Distorted Dirac Cones. Nano Letters, 2015, 15, 6182-6186.	9.1	482
2	High Mobility and High Storage Capacity of Lithium in sp^2 Hybridized Carbon Network: The Case of Graphyne. Journal of Physical Chemistry C, 2011, 115, 8845-8850.	3.1	228
3	Tunable electronic structures of graphene/boron nitride heterobilayers. Applied Physics Letters, 2011, 98, .	3.3	211
4	Isoelectronic Doping of Graphdiyne with Boron and Nitrogen: Stable Configurations and Band Gap Modification. Journal of Physical Chemistry A, 2012, 116, 3934-3939.	2.5	142
5	Two-dimensional magnetic boron. Physical Review B, 2016, 93, .	3.2	101
6	Imaging Domain Reversal in an Ultrathin Van der Waals Ferromagnet. Advanced Materials, 2020, 32, e2003314.	21.0	47
7	Hybrid density functional study of band alignment in ZnO/GaN and $ZnO/(Ga_{1-x}Zn_x)(N_{1-x}O_x)/GaN$ heterostructures. Physical Chemistry Chemical Physics, 2012, 14, 15693.	2.8	46
8	New two-dimensional phase of tin chalcogenides: Candidates for high-performance thermoelectric materials. Physical Review Materials, 2019, 3, .	2.4	44
9	Superconductivity of novel tin hydrides ($SnnHm$) under pressure. Scientific Reports, 2016, 6, 22873.	3.3	39
10	Thermoelectric properties of \pm -In ₂ Se ₃ monolayer. Applied Physics Letters, 2021, 118, .	3.3	36
11	Electronic properties of BN/C nanotube heterostructures. Journal of Applied Physics, 2010, 107, .	2.5	34
12	Manifold electronic structure transition of BNC biribbons. Journal of Applied Physics, 2011, 110, .	2.5	30
13	Can cation vacancy defects induce room temperature ferromagnetism in GaN?. Applied Physics Letters, 2013, 102, 062411.	3.3	28
14	Orientation-Dependent Stability and Quantum-Confinement Effects of Silicon Carbide Nanowires. Journal of Physical Chemistry C, 2009, 113, 12731-12735.	3.1	27
15	Neutral vacancy-defect-induced magnetism in SiC monolayer. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2451-2454.	2.7	26
16	Band inversion and topological aspects in a TiNI monolayer. Physical Chemistry Chemical Physics, 2016, 18, 22154-22159.	2.8	26
17	Ternary inorganic electrides with mixed bonding. Physical Review B, 2019, 99, .	3.2	26
18	Honeycomb-Patterned Quantum Dots beyond Graphene. Journal of Physical Chemistry C, 2011, 115, 17743-17749.	3.1	25

#	ARTICLE	IF	CITATIONS
19	Spin-polarization of VGaON center in GaN and its application in spin qubit. Applied Physics Letters, 2012, 100, 192401.	3.3	25
20	Characteristics of GaN-based LED fabricated on a GaN-on-silicon platform. Applied Physics Express, 2014, 7, 082102.	2.4	22
21	Theoretical insights into the built-in electric field and band offsets of BN/C heterostructured zigzag nanotubes. Journal Physics D: Applied Physics, 2011, 44, 095405.	2.8	19
22	Study of focal shift effect in planar GaN high contrast grating lenses. Optics Express, 2015, 23, 29360.	3.4	18
23	First-Principles Study of Faceted Single-Crystalline Silicon Carbide Nanowires and Nanotubes. Journal of Physical Chemistry C, 2009, 113, 856-861.	3.1	17
24	Visible light metasurfaces based on gallium nitride high contrast gratings. Optics Communications, 2016, 367, 144-148.	2.1	17
25	Discovery of new boron-rich chalcogenides: orthorhombic B6X (X=S, Se). Scientific Reports, 2020, 10, 9277.	3.3	15
26	Natural charge spatial separation and quantum confinement of ZnO/GaN-core/shell nanowires. Journal of Applied Physics, 2010, 108, 123707.	2.5	12
27	Membrane guided-mode resonant color filters exhibiting adjustable spectral response. Optics Communications, 2015, 342, 129-135.	2.1	11
28	Design of broadband reflector at the visible wavelengths using particle swarm optimization. AIP Advances, 2019, 9, .	1.3	10
29	Hyperbolic dispersion and negative refraction in a metal-organic framework Cu-BHT. Physical Review Materials, 2019, 3, .	2.4	9
30	Structural and electronic properties of ZnS/ZnO heteronanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1522-1527.	2.7	7
31	Two-dimensional boron on Pb (1 1 0) surface. FlatChem, 2018, 7, 34-41.	5.6	7
32	Prediction of Novel van der Waals Boron Oxides with Superior Deep-Ultraviolet Nonlinear Optical Performance. Angewandte Chemie, 2021, 133, 10886-10892.	2.0	6
33	Spin-Gapless States in Two-Dimensional Molecular Ferromagnet Fe ₂ (TCNQ) ₂ . Journal of Physical Chemistry Letters, 2021, 12, 7921-7927.	4.6	4
34	Positive focal shift of gallium nitride high contrast grating focusing reflectors. Materials Research Express, 2016, 3, 095901.	1.6	3
35	Design of GaN-Based PCSEL With Temperature-Insensitive Lasing Wavelength. IEEE Photonics Journal, 2021, 13, 1-6.	2.0	3