

Guang Wang

List of Publications by Year in descending order

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70
papers

2,894
citations

257357

24
h-index

168321

53
g-index

73
all docs

73
docs citations

73
times ranked

5029
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity in one-atomic-layer metal films grown on Si(111). <i>Nature Physics</i> , 2010, 6, 104-108.	6.5	479
2	Intrinsic Topological Insulator Bi ₂ Te ₃ Thin Films on Si and Their Thickness Limit. <i>Advanced Materials</i> , 2010, 22, 4002-4007.	11.1	376
3	Mechanical and electronic properties of monolayer MoS ₂ under elastic strain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1166-1170.	0.9	313
4	Topological Insulator Thin Films of Bi ₂ Te ₃ with Controlled Electronic Structure. <i>Advanced Materials</i> , 2011, 23, 2929-2932.	11.1	194
5	Atomically smooth ultrathin films of topological insulator Sb ₂ Te ₃ . <i>Nano Research</i> , 2010, 3, 874-880.	5.8	104
6	Controllable 2H-to-1T ϵ^2 phase transition in few-layer MoTe ₂ . <i>Nanoscale</i> , 2018, 10, 19964-19971.	2.8	99
7	Growth of Millimeter-Size Single Crystal Graphene on Cu Foils by Circumfluence Chemical Vapor Deposition. <i>Scientific Reports</i> , 2014, 4, 4537.	1.6	98
8	The Raman redshift of graphene impacted by gold nanoparticles. <i>AIP Advances</i> , 2015, 5, .	0.6	96
9	Analog Memristors Based on Thickening/Thinning of Ag Nanofilaments in Amorphous Manganite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11258-11264.	4.0	84
10	In situ Raman spectroscopy of topological insulator Bi ₂ Te ₃ films with varying thickness. <i>Nano Research</i> , 2013, 6, 688-692.	5.8	72
11	Bolometric Effect in Bi ₂ O ₂ Se Photodetectors. <i>Small</i> , 2019, 15, e1904482.	5.2	68
12	The nonlinear optical properties of coupling and decoupling graphene layers. <i>AIP Advances</i> , 2013, 3, .	0.6	65
13	Controlled growth of atomically thin MoSe ₂ films and nanoribbons by chemical vapor deposition. <i>2D Materials</i> , 2019, 6, 025002.	2.0	51
14	Controlled Layer-by-Layer Oxidation of MoTe ₂ via O ₃ Exposure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30045-30050.	4.0	49
15	Extending Cycle Life of Mg/S Battery by Activation of Mg Anode/Electrolyte Interface through an LiCl ϵ -Assisted MgCl ₂ Solubilization Mechanism. <i>Advanced Functional Materials</i> , 2020, 30, 1909370.	7.8	49
16	Nonvolatile bipolar resistive switching in amorphous Sr-doped LaMnO ₃ thin films deposited by radio frequency magnetron sputtering. <i>Applied Physics Letters</i> , 2013, 102, 134105.	1.5	48
17	A stretchable, asymmetric, coaxial fiber-shaped supercapacitor for wearable electronics. <i>Nano Research</i> , 2020, 13, 1686-1692.	5.8	46
18	Phase-Controlled Growth of One-Dimensional Mo ₆ Te ₆ Nanowires and Two-Dimensional MoTe ₂ Ultrathin Films Heterostructures. <i>Nano Letters</i> , 2018, 18, 675-681.	4.5	45

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19	Molecular beam epitaxy growth of atomically ultrathin MoTe ₂ lateral heterophase homojunctions on graphene substrates. Carbon, 2017, 115, 526-531.	5.4	42
20	Even-odd Layer-Dependent Anomalous Hall Effect in Topological Magnet MnBi ₂ Te ₄ Thin Films. Nano Letters, 2021, 21, 7691-7698.	4.5	42
21	Photo-driven nanoactuators based on carbon nanocoils and vanadium dioxide bimorphs. Nanoscale, 2018, 10, 11158-11164.	2.8	35
22	Programmable metallization cells based on amorphous La _{0.79} Sr _{0.21} MnO ₃ thin films for memory applications. Journal of Alloys and Compounds, 2013, 580, 354-357.	2.8	31
23	Diode-like volatile resistive switching properties in amorphous Sr-doped LaMnO ₃ thin films under lower current compliance. Journal of Applied Physics, 2013, 114, .	1.1	29
24	Space-confined and substrate-directed synthesis of transition-metal dichalcogenide nanostructures with tunable dimensionality. Science Bulletin, 2020, 65, 1013-1021.	4.3	25
25	Direct Observation of One-Dimensional Peierls-type Charge Density Wave in Twin Boundaries of Monolayer MoTe ₂ . ACS Nano, 2020, 14, 8299-8306.	7.3	23
26	Infrared micro-detectors with high sensitivity and high response speed using VO ₂ -coated helical carbon nanocoils. Journal of Materials Chemistry C, 2019, 7, 12095-12103.	2.7	21
27	Controllable Epitaxial Growth of MoSe ₂ Bilayers with Different Stacking Orders by Reverse-Flow Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2020, 12, 23347-23355.	4.0	21
28	Synthesis and characterization of few-layer Sb ₂ Te ₃ nanoplates with electrostatic properties. RSC Advances, 2012, 2, 10694.	1.7	19
29	An Al ₂ O ₃ Gating Substrate for the Greater Performance of Field Effect Transistors Based on Two-Dimensional Materials. Nanomaterials, 2017, 7, 286.	1.9	16
30	Broadly manipulating the interfacial thermal energy transport across the Si/4H-SiC interfaces via nanopatterns. International Journal of Heat and Mass Transfer, 2022, 187, 122499.	2.5	16
31	A flexible, multifunctional, active terahertz modulator with an ultra-low triggering threshold. Journal of Materials Chemistry C, 2020, 8, 10213-10220.	2.7	15
32	Synthesis of Monolayer MoSe ₂ with Controlled Nucleation via Reverse-Flow Chemical Vapor Deposition. Nanomaterials, 2020, 10, 75.	1.9	15
33	Memristive Properties of Transparent $(\text{La}_{1-x}\text{Sr}_x\text{MnO}_3)$ Thin Films Deposited on ITO Glass at Room Temperature. IEEE Electron Device Letters, 2013, 34, 1506-1508.	2.2	14
34	High Mobility Two-Dimensional Bismuth Oxyselenide Single Crystals with Large Grain Size Grown by Reverse-Flow Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2021, 13, 49153-49162.	4.0	14
35	Lateral and Vertical MoSe ₂ MoS ₂ Heterostructures via Epitaxial Growth: Triggered by High-Temperature Annealing and Precursor Concentration. Journal of Physical Chemistry Letters, 2019, 10, 5027-5035.	2.1	13
36	Tailoring Mg ²⁺ Solvation Structure in a Facile All-organic [Mg _x Li _y Cl _{2x+y} ·nTHF] Complex Electrolyte for High Rate and Long Cycle-Life Mg Battery. Energy and Environmental Materials, 2023, 6, .	7.3	13

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37	Thermal Management Modeling for $\text{In}^2\text{-Ga}_{2\text{O}_3}$ -Highly Thermal Conductive Substrates Heterostructures. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 638-646.	1.4	12
38	All-carbon based graphene field effect transistor with graphitic electrodes fabricated by e-beam direct writing on PMMA. Scientific Reports, 2015, 5, 12198.	1.6	11
39	Reconfigurable Tunneling Transistors Heterostructured by an Individual Carbon Nanotube and MoS_2 . Nano Letters, 2021, 21, 6843-6850.	4.5	11
40	Current self-amplification effect of graphene-based transistor in high-field transport. Carbon, 2014, 77, 1090-1094.	5.4	10
41	Laser-Induced Flash-Evaporation Printing $\text{CH}_3\text{NH}_3\text{PbI}_3$ Thin Films for High-Performance Planar Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 26206-26212.	4.0	10
42	Nanoscale electrochemical metallization memories based on amorphous (La, Tj) $\text{ETQqO}_0\text{O rgBT}$ /Overlock 10 Tf 50 547 Td (Sr)MnO_{su} 47, 085108.	1.3	9
43	Direct Visualization and Manipulation of Stacking Orders in Few-Layer Graphene by Dynamic Atomic Force Microscopy. Journal of Physical Chemistry Letters, 2021, 12, 7328-7334.	2.1	9
44	Efficient Inorganic Cesium Lead Mixed-Halide Perovskite Solar Cells Prepared by Flash-Evaporation Printing. Energy Technology, 2019, 7, 1800986.	1.8	7
45	Fermi Velocity Reduction of Dirac Fermions around the Brillouin Zone Center in In_2Se_3 Bilayer Graphene Heterostructures. Advanced Materials, 2021, 33, 2007503.	11.1	7
46	Van Hove singularities as a result of quantum confinement: The origin of intriguing physical properties in Pb thin films. Nano Research, 2010, 3, 800-806.	5.8	6
47	Current induced doping in graphene-based transistor with asymmetrical contact barriers. Applied Physics Letters, 2014, 104, 083115.	1.5	6
48	Observation of complete space-charge-limited transport in metal-oxide-graphene heterostructure. Applied Physics Letters, 2015, 106, 023122.	1.5	5
49	Ultrathin Al Oxide Seed Layer for Atomic Layer Deposition of High- κ Al_2O_3 Dielectrics on Graphene. Chinese Physics Letters, 2020, 37, 076801.	1.3	5
50	Bidirectional micro-actuators based on eccentric coaxial composite oxide nanofiber. Nano Research, 2020, 13, 2451-2459.	5.8	5
51	Strain-Induced Alternating Photoluminescence Segmentation in Hexagonal Monolayer Tungsten Disulfide Grown by Physical Vapor Deposition. ACS Applied Materials & Interfaces, 2021, 13, 46164-46170.	4.0	5
52	Probing the interfacial interaction between monolayer molybdenum disulfide and Au nanoclusters. Surface and Interface Analysis, 2017, 49, 858-863.	0.8	4
53	ENHANCEMENT OF SUPERCONDUCTIVITY OF Pb ULTRA-THIN FILMS BY THE INTERFACE EFFECT. Surface Review and Letters, 2010, 17, 437-440.	0.5	3
54	Doping nature of Cu in epitaxial topological insulator Bi_2Te_3 thin films. Surface Science, 2013, 617, 156-161.	0.8	3

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55	<>In Situ<> Fabrication and Characterization of Graphene Electronic Device Based on Dual Beam System. Journal of Nanoscience and Nanotechnology, 2015, 15, 4591-4595.	0.9	3
56	A finite-volume fast diffusion-limited aggregation model for predicting the coagulation rate of mixed low-ionized system. AIP Advances, 2017, 7, .	0.6	3
57	Lateral and Vertical p<n Homojunctions Formed in Few-Layer MoTe₂ with In Surface Charge-Transfer Doping. ACS Applied Electronic Materials, 2021, 3, 3428-3435.	2.0	3
58	Manipulating individual dichlorotin phthalocyanine molecules on Cu(100) surface at room temperature by scanning tunneling microscopy. Materials Research Express, 2014, 1, 045101.	0.8	2
59	Controlled Epitaxial Growth and Atomically Sharp Interface of Graphene/Ferromagnetic Heterostructure via Ambient Pressure Chemical Vapor Deposition. Nanomaterials, 2021, 11, 3112.	1.9	2
60	The Influence of Atmosphere on Electrical Transport Properties in Bilayer Graphene FET by CVD Methods. Key Engineering Materials, 2012, 531-532, 383-387.	0.4	1
61	Room-temperature characterization of gold self-assembled single electron tunneling devices. Microelectronic Engineering, 2013, 108, 1-4.	1.1	1
62	Molecular beam epitaxial growth and exotic electronic structure of topological insulators. , 2013, , 579-589.		1
63	Photocurrent imaging of CdS/Al interfaces based on microscopic analysis. Applied Optics, 2013, 52, 5230.	0.9	1
64	Controllable Growth of Bilayer MoS2 Crystals by Reverse-Flow Chemical Vapor Deposition. IOP Conference Series: Earth and Environmental Science, 2020, 453, 012085.	0.2	1
65	Raman Mapping of Lithiation Process on Graphene. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	2.2	1
66	Template-assistant synthesis of gold nanoparticles with mesoporous silica thin films. Micro and Nano Letters, 2011, 6, 971.	0.6	0
67	Piezoelectric Potential Distribution in a Bent ZnO Nanorod Cantilever. Materials Science Forum, 0, 694, 23-27.	0.3	0
68	GROWTH AND STABILITY OF ULTRA-THIN Pb FILMS ON Pb/Si(111)-1̂±-âˆš3 Å– âˆš3. Surface Review and Letters, 2011, 18, 77-82.	0.5	0
69	Optical Nonlinearity of Mesoporous Silica Thin Films Embedded with Gold Nanoparticles. Integrated Ferroelectrics, 2012, 138, 16-22.	0.3	0
70	Raman spectroscopy of large-area graphene by wet transfer method. , 2018, , .		0