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	Tailoring Mg²⁺ Solvation Structure in a Facile Allâ€Inorganic [Mg_xLi_yCl_{2x+y}Â·nTHF] Complex Electrolyte for High Rate and Long Cycleâ€Life Mg Battery. Energy and Environmental Materials, 2023, 6, .	7.3	13
2	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
3	Thermal Management Modeling for Î²-Ga₂O₃-Highly Thermal Conductive Substrates Heterostructures. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 638-646.	1.4	12
4	Fermi Velocity Reduction of Dirac Fermions around the Brillouin Zone Center in In 2 Se 3 â€“Bilayer Graphene Heterostructures. Advanced Materials, 2021, 33, 2007503.	11.1	7
5	Lateral and Vertical pâ€“n Homojunctions Formed in Few-Layer MoTe₂ with In Surface Charge-Transfer Doping. ACS Applied Electronic Materials, 2021, 3, 3428-3435.	2.0	3
6	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
7	Reconfigurable Tunneling Transistors Heterostructured by an Individual Carbon Nanotube and MoS₂. Nano Letters, 2021, 21, 6843-6850.	4.5	11
8	Evenâ€“Odd Layer-Dependent Anomalous Hall Effect in Topological Magnet MnBi₂Te₄ Thin Films. Nano Letters, 2021, 21, 7691-7698.	4.5	42
9	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
10	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
11	Controlled Epitaxial Growth and Atomically Sharp Interface of Graphene/Ferromagnetic Heterostructure via Ambient Pressure Chemical Vapor Deposition. Nanomaterials, 2021, 11, 3112.	1.9	2
12	Extending Cycle Life of Mg/S Battery by Activation of Mg Anode/Electrolyte Interface through an LiClâ€Assisted MgCl₂ Solubilization Mechanism. Advanced Functional Materials, 2020, 30, 1909370.	7.8	49
13	Ultrathin Al Oxide Seed Layer for Atomic Layer Deposition of High-Îº Al₂O₃ Dielectrics on Graphene. Chinese Physics Letters, 2020, 37, 076801.	1.3	5
14	A stretchable, asymmetric, coaxial fiber-shaped supercapacitor for wearable electronics. Nano Research, 2020, 13, 1686-1692.	5.8	46
15	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
16	Direct Observation of One-Dimensional Peierls-type Charge Density Wave in Twin Boundaries of Monolayer MoTe₂. ACS Nano, 2020, 14, 8299-8306.	7.3	23
17	A flexible, multifunctional, active terahertz modulator with an ultra-low triggering threshold. Journal of Materials Chemistry C, 2020, 8, 10213-10220.	2.7	15
18	Space-confined and substrate-directed synthesis of transition-metal dichalcogenide nanostructures with tunable dimensionality. Science Bulletin, 2020, 65, 1013-1021.	4.3	25

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19	Bidirectional micro-actuators based on eccentric coaxial composite oxide nanofiber. Nano Research, 2020, 13, 2451-2459.	5.8	5
20	Synthesis of Monolayer MoSe2 with Controlled Nucleation via Reverse-Flow Chemical Vapor Deposition. Nanomaterials, 2020, 10, 75.	1.9	15
21	Controllable Epitaxial Growth of MoSe₂ Bilayers with Different Stacking Orders by Reverse-Flow Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2020, 12, 23347-23355.	4.0	21
22	Raman Mapping of Lithiation Process on Graphene. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	2.2	1
23	Lateral and Vertical MoSe₂â€“MoS₂ Heterostructures via Epitaxial Growth: Triggered by High-Temperature Annealing and Precursor Concentration. Journal of Physical Chemistry Letters, 2019, 10, 5027-5035.	2.1	13
24	Bolometric Effect in Bi₂O₂Se Photodetectors. Small, 2019, 15, e1904482.	5.2	68
25	Infrared micro-detectors with high sensitivity and high response speed using VO₂-coated helical carbon nanocoils. Journal of Materials Chemistry C, 2019, 7, 12095-12103.	2.7	21
26	Controlled growth of atomically thin MoSe ₂ films and nanoribbons by chemical vapor deposition. 2D Materials, 2019, 6, 025002.	2.0	51
27	Efficient Inorganic Cesium Lead Mixedâ€Halide Perovskite Solar Cells Prepared by Flashâ€Evaporation Printing. Energy Technology, 2019, 7, 1800986.	1.8	7
28	Phase-Controlled Growth of One-Dimensional Mo₆Te₆ Nanowires and Two-Dimensional MoTe₂ Ultrathin Films Heterostructures. Nano Letters, 2018, 18, 675-681.	4.5	45
29	Controllable 2H-to-1Tâ€² phase transition in few-layer MoTe₂. Nanoscale, 2018, 10, 19964-19971.	2.8	99
30	Photo-driven nanoactuators based on carbon nanocoils and vanadium dioxide bimorphs. Nanoscale, 2018, 10, 11158-11164.	2.8	35
31	Laser-Induced Flash-Evaporation Printing CH₃NH₃PbI₃ Thin Films for High-Performance Planar Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 26206-26212.	4.0	10
32	Controlled Layer-by-Layer Oxidation of MoTe₂ via O₃ Exposure. ACS Applied Materials & Interfaces, 2018, 10, 30045-30050.	4.0	49
33	Raman spectroscopy of large-area graphene by wet transfer method. , 2018, , .		0
34	Molecular beam epitaxy growth of atomically ultrathin MoTe2 lateral heterophase homojunctions on graphene substrates. Carbon, 2017, 115, 526-531.	5.4	42
35	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
36	Probing the interfacial interaction between monolayer molybdenum disulfide and Au nanoclusters. Surface and Interface Analysis, 2017, 49, 858-863.	0.8	4

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37	An Al2O3 Gating Substrate for the Greater Performance of Field Effect Transistors Based on Two-Dimensional Materials. Nanomaterials, 2017, 7, 286.	1.9	16
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	The Raman redshift of graphene impacted by gold nanoparticles. AIP Advances, 2015, 5, .	0.6	96
40	<I>In Situ</I> Fabrication and Characterization of Graphene Electronic Device Based on Dual Beam System. Journal of Nanoscience and Nanotechnology, 2015, 15, 4591-4595.	0.9	3
41	Observation of complete space-charge-limited transport in metal-oxide-graphene heterostructure. Applied Physics Letters, 2015, 106, 023122.	1.5	5
42	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
43	Nanoscale electrochemical metallization memories based on amorphous (La,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (S 47, 085108.	1.3	9
44	Current induced doping in graphene-based transistor with asymmetrical contact barriers. Applied Physics Letters, 2014, 104, 083115.	1.5	6
45	Current self-amplification effect of graphene-based transistor in high-field transport. Carbon, 2014, 77, 1090-1094.	5.4	10
46	Growth of Millimeter-Size Single Crystal Graphene on Cu Foils by Circumfluence Chemical Vapor Deposition. Scientific Reports, 2014, 4, 4537.	1.6	98
47	In situ Raman spectroscopy of topological insulator Bi2Te3 films with varying thickness. Nano Research, 2013, 6, 688-692.	5.8	72
48	Programmable metallization cells based on amorphous La0.79Sr0.21MnO3 thin films for memory applications. Journal of Alloys and Compounds, 2013, 580, 354-357.	2.8	31
49	Analog Memristors Based on Thickening/Thinning of Ag Nanofilaments in Amorphous Manganite Thin Films. ACS Applied Materials & Interfaces, 2013, 5, 11258-11264.	4.0	84
50	Room-temperature characterization of gold self-assembled single electron tunneling devices. Microelectronic Engineering, 2013, 108, 1-4.	1.1	1
51	Molecular beam epitaxial growth and exotic electronic structure of topological insulators. , 2013, , 579-589.		1
52	The nonlinear optical properties of coupling and decoupling graphene layers. AIP Advances, 2013, 3, .	0.6	65
53	Doping nature of Cu in epitaxial topological insulator Bi2Te3 thin films. Surface Science, 2013, 617, 156-161.	0.8	3
54	Photocurrent imaging of CdS/Al interfaces based on microscopic analysis. Applied Optics, 2013, 52, 5230.	0.9	1

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55	Nonvolatile bipolar resistive switching in amorphous Sr-doped LaMnO3 thin films deposited by radio frequency magnetron sputtering. Applied Physics Letters, 2013, 102, 134105.	1.5	48
56	Diode-like volatile resistive switching properties in amorphous Sr-doped LaMnO3 thin films under lower current compliance. Journal of Applied Physics, 2013, 114, .	1.1	29
57	Memristive Properties of Transparent $({m La},,{m Sr}){m MnO}_{3}$ Thin Films Deposited on ITO Glass at Room Temperature. IEEE Electron Device Letters, 2013, 34, 1506-1508.	2.2	14
58	Optical Nonlinearity of Mesoporous Silica Thin Films Embedded with Gold Nanoparticles. Integrated Ferroelectrics, 2012, 138, 16-22.	0.3	0
59	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
60	Synthesis and characterization of few-layer Sb2Te3 nanoplates with electrostatic properties. RSC Advances, 2012, 2, 10694.	1.7	19
61	Mechanical and electronic properties of monolayer MoS2 under elastic strain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1166-1170.	0.9	313
62	Template-assistant synthesis of gold nanoparticles with mesoporous silica thin films. Micro and Nano Letters, 2011, 6, 971.	0.6	0
63	Topological Insulator Thin Films of Bi₂Te₃ with Controlled Electronic Structure. Advanced Materials, 2011, 23, 2929-2932.	11.1	194
64	GROWTH AND STABILITY OF ULTRA-THIN Pb FILMS ON Pb/Si(111)-Î±-âˆš3 Ã— âˆš3. Surface Review and Letters, 2011, 18, 77-82.	0.5	0
65	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
66	Atomically smooth ultrathin films of topological insulator Sb2Te3. Nano Research, 2010, 3, 874-880.	5.8	104
67	Intrinsic Topological Insulator Bi₂Te₃ Thin Films on Si and Their Thickness Limit. Advanced Materials, 2010, 22, 4002-4007.	11.1	376
68	Superconductivity in one-atomic-layer metal films grown on Si(111). Nature Physics, 2010, 6, 104-108.	6.5	479
69	ENHANCEMENT OF SUPERCONDUCTIVITY OF Pb ULTRA-THIN FILMS BY THE INTERFACE EFFECT. Surface Review and Letters, 2010, 17, 437-440.	0.5	3
70	Piezoelectric Potential Distribution in a Bent ZnO Nanorod Cantilever. Materials Science Forum, 0, 694, 23-27.	0.3	0