Guangyu Zhang

List of Publications by Year
in descending order

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50 papers	4,925 citations	236833 25 h-index	182361 51 g-index
52 all docs	52 docs citations	52 times ranked	7917 citing authors

#	Article	IF	Citations
1	Flexible 2D Materials beyond Graphene: Synthesis, Properties, and Applications. Small, 2022, 18, e2105383.	5.2	55
2	High turnover and rescue effect of XRCC1 inÂresponse to heavy charged particle radiation. Biophysical Journal, 2022, , .	0.2	1
3	Layer-by-layer epitaxy of multi-layer MoS2 wafers. National Science Review, 2022, 9, .	4.6	41
4	High-Performance Osmotic Power Generators Based on the 1D/2D Hybrid Nanochannel System. ACS Applied Materials & Interfaces, 2022, 14, 29197-29212.	4.0	7
5	Mechanoplastic tribotronic two-dimensional multibit nonvolatile optoelectronic memory. Nano Energy, 2021, 82, 105692.	8.2	20
6	Monolayer MoS2 epitaxy. Nano Research, 2021, 14, 1598-1608.	5.8	11
7	Sub-5 nm Lithography with Single GeV Heavy Ions Using Inorganic Resist. Nano Letters, 2021, 21, 2390-2396.	4.5	16
8	A Reliable Allâ€2D Materials Artificial Synapse for High Energyâ€Efficient Neuromorphic Computing. Advanced Functional Materials, 2021, 31, 2011083.	7.8	53
9	Skinâ€Inspired Highâ€Performance Activeâ€Matrix Circuitry for Multimodal Userâ€Interaction. Advanced Functional Materials, 2021, 31, 2105480.	7.8	14
10	Testing and analysis of the plastic scintillator units for LHAASO-ED. Radiation Detection Technology and Methods, 2021, 5, 513-519.	0.4	3
11	A Review of Microrobotâ€™s System: Towards System Integration for Autonomous Actuation In Vivo. Micromachines, 2021, 12, 1249.	1.4	20
12	Vertical Integration of 2D Building Blocks for Allâ€2D Electronics. Advanced Electronic Materials, 2020, 6, 2000550.	2.6	20
13	In Situ Oxygen Doping of Monolayer MoS₂ for Novel Electronics. Small, 2020, 16, e2004276.	5.2	54
14	Large-scale flexible and transparent electronics based on monolayer molybdenum disulfide field-effect transistors. Nature Electronics, 2020, 3, 711-717.	13.1	255
15	Artificial Synapse Based on van der Waals Heterostructures with Tunable Synaptic Functions for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2020, 12, 11945-11954.	4.0	75
16	Fabrication and Functioning of Magnetically Gated PET Nanochannels. ChemNanoMat, 2020, 6, 1075-1079.	1.5	7
17	Scratching lithography for wafer-scale MoS₂ monolayers. 2D Materials, 2020, 7, 045028.	2.0	11
18	Electrical Field Regulation of Ion Transport in Polyethylene Terephthalate Nanochannels. ACS Applied Materials & Interfaces, 2019, 11, 38055-38060.	4.0	18

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19	Response of the environmental thermal neutron flux to earthquakes. Journal of Environmental Radioactivity, 2019, 208-209, 105981.	0.9	11
20	Strongly distinct electrical response between circular and valley polarization in bilayer transition metal dichalcogenides. Physical Review B, 2019, 99, .	1.1	16
21	Atomic Layer Deposition of Al₂O₃ Directly on 2D Materials for Highâ€Performance Electronics. Advanced Materials Interfaces, 2019, 6, 1802055.	1.9	25
22	Pressure-mediated contact quality improvement between monolayer MoS ₂ and graphite. Chinese Physics B, 2019, 28, 017301.	0.7	5
23	Static and Dynamic Piezopotential Modulation in Piezo-Electret Gated MoS₂ Field-Effect Transistor. ACS Nano, 2019, 13, 582-590.	7.3	38
24	Twist angle-dependent conductivities across MoS2/graphene heterojunctions. Nature Communications, 2018, 9, 4068.	5.8	90
25	Electronic structure-dependent magneto-optical Raman effect in atomically thin WS ₂. 2D Materials, 2018, 5, 035028.	2.0	11
26	Seasonal and Lunar Month Periods Observed in Natural Neutron Flux at High Altitude. Pure and Applied Geophysics, 2017, 174, 2763-2771.	0.8	17
27	Precisely Aligned Monolayer MoS₂ Epitaxially Grown on hâ€BN basal Plane. Small, 2017, 13, 1603005.	5.2	91
28	Grapheneâ€Contacted Ultrashort Channel Monolayer MoS₂ Transistors. Advanced Materials, 2017, 29, 1702522.	11.1	218
29	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS₂ Continuous Films. ACS Nano, 2017, 11, 12001-12007.	7.3	397
30	The Effect of Twin Grain Boundary Tuned by Temperature on the Electrical Transport Properties of Monolayer MoS2. Crystals, 2016, 6, 115.	1.0	18
31	Rolling Up a Monolayer MoS₂Sheet. Small, 2016, 12, 3770-3774.	5.2	60
32	Anisotropic Chargeâ€Carrier Transport in Highâ€Mobility Donorâ€"Acceptor Conjugated Polymer Semiconductor Films. Chemistry - an Asian Journal, 2016, 11, 2725-2729.	1.7	7
33	Patterning monolayer graphene with zigzag edges on hexagonal boron nitride by anisotropic etching. Applied Physics Letters, 2016, 109, .	1.5	20
34	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. Physical Review Letters, 2016, 116, 126101.	2.9	142
35	Patterned Peeling 2D MoS₂ off the Substrate. ACS Applied Materials & Interfaces, 2016, 8, 16546-16550.	4.0	30
36	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. Science, 2016, 352, 1443-1445.	6.0	697

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37	Integrated Flexible and Highâ€Quality Thin Film Transistors Based on Monolayer MoS₂. Advanced Electronic Materials, 2016, 2, 1500379.	2.6	40
38	Three Dimensional Hybrids of Vertical Graphene-nanosheet Sandwiched by Ag-nanoparticles for Enhanced Surface Selectively Catalytic Reactions. Scientific Reports, 2015, 5, 16019.	1.6	59
39	Tunable Piezoresistivity of Nanographene Films for Strain Sensing. ACS Nano, 2015, 9, 1622-1629.	7.3	246
40	Oxygen-Assisted Chemical Vapor Deposition Growth of Large Single-Crystal and High-Quality Monolayer MoS₂. Journal of the American Chemical Society, 2015, 137, 15632-15635.	6.6	301
41	Rapid templated fabrication of large-scale, high-density metallic nanocone arrays and SERS applications. Journal of Materials Chemistry C, 2014, 2, 9987-9992.	2.7	12
42	Experimental identification of p-type conduction in fluoridized boron nitride nanotube. Applied Physics Letters, 2013, 102, 153107.	1.5	13
43	Ultra-sensitive strain sensors based on piezoresistive nanographene films. Applied Physics Letters, 2012, 101, 063112.	1.5	270
44	Graphene Edge Lithography. Nano Letters, 2012, 12, 4642-4646.	4.5	49
45	Super-Elastic Graphene Ripples for Flexible Strain Sensors. ACS Nano, 2011, 5, 3645-3650.	7.3	621
46	Patterning Graphene with Zigzag Edges by Selfâ€Aligned Anisotropic Etching. Advanced Materials, 2011, 23, 3061-3065.	11.1	167
47	An Anisotropic Etching Effect in the Graphene Basal Plane. Advanced Materials, 2010, 22, 4014-4019.	11.1	242
48	Characteristic measurements of silicon dioxide aerogel plasmas generated in a Planckian radiation environment. Physics of Plasmas, 2010, 17, .	0.7	5
49	Progress in high pressure EDXD system and research at Beijing Synchrotron Radiation Facility. Science Bulletin, 2000, 45, 1659-1662.	1.7	7
50	Analyses of plasma reactive sputter deposition of CNx films by OES. Science Bulletin, 1997, 42, 1792-1795.	1.7	1