

# Guangyu Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47  
papers

3,576  
citations

21  
h-index

52  
g-index

52  
ext. papers

4,252  
ext. citations

10.3  
avg, IF

4.88  
L-index

#	Paper	IF	Citations
47	Flexible 2D Materials beyond Graphene: Synthesis, Properties, and Applications.. <i>Small</i> , <b>2022</b> , e2105383	11	13
46	A Reliable All-2D Materials Artificial Synapse for High Energy-Efficient Neuromorphic Computing. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2011083	15.6	20
45	Mechanoplastic tribotronic two-dimensional multibit nonvolatile optoelectronic memory. <i>Nano Energy</i> , <b>2021</b> , 82, 105692	17.1	10
44	Monolayer MoS2 epitaxy. <i>Nano Research</i> , <b>2021</b> , 14, 1598-1608	10	4
43	Sub-5 nm Lithography with Single GeV Heavy Ions Using Inorganic Resist. <i>Nano Letters</i> , <b>2021</b> , 21, 2390-2396	6	4
42	Skin-Inspired High-Performance Active-Matrix Circuitry for Multimodal User-Interaction. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2105480	15.6	3
41	Artificial Synapse Based on van der Waals Heterostructures with Tunable Synaptic Functions for Neuromorphic Computing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 11945-11954	9.5	43
40	Fabrication and Functioning of Magnetically Gated PET Nanochannels. <i>ChemNanoMat</i> , <b>2020</b> , 6, 1075-1079	3.5	3
39	Scratching lithography for wafer-scale MoS2 monolayers. <i>2D Materials</i> , <b>2020</b> , 7, 045028	5.9	4
38	Vertical Integration of 2D Building Blocks for All-2D Electronics. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000550	6.4	10
37	In Situ Oxygen Doping of Monolayer MoS for Novel Electronics. <i>Small</i> , <b>2020</b> , 16, e2004276	11	21
36	Large-scale flexible and transparent electronics based on monolayer molybdenum disulfide field-effect transistors. <i>Nature Electronics</i> , <b>2020</b> , 3, 711-717	28.4	90
35	Electrical Field Regulation of Ion Transport in Polyethylene Terephthalate Nanochannels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 38055-38060	9.5	11
34	Response of the environmental thermal neutron flux to earthquakes. <i>Journal of Environmental Radioactivity</i> , <b>2019</b> , 208-209, 105981	2.4	6
33	Strongly distinct electrical response between circular and valley polarization in bilayer transition metal dichalcogenides. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	10
32	Atomic Layer Deposition of Al2O3 Directly on 2D Materials for High-Performance Electronics. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1802055	4.6	14
31	Pressure-mediated contact quality improvement between monolayer MoS 2 and graphite. <i>Chinese Physics B</i> , <b>2019</b> , 28, 017301	1.2	2

30	Static and Dynamic Piezopotential Modulation in Piezo-Electret Gated MoS Field-Effect Transistor. <i>ACS Nano</i> , <b>2019</b> , 13, 582-590	16.7	26
29	Twist angle-dependent conductivities across MoS/graphene heterojunctions. <i>Nature Communications</i> , <b>2018</b> , 9, 4068	17.4	59
28	Electronic structure-dependent magneto-optical Raman effect in atomically thin WS <sub>2</sub> . <i>2D Materials</i> , <b>2018</b> , 5, 035028	5.9	9
27	Seasonal and Lunar Month Periods Observed in Natural Neutron Flux at High Altitude. <i>Pure and Applied Geophysics</i> , <b>2017</b> , 174, 2763-2771	2.2	11
26	Precisely Aligned Monolayer MoS Epitaxially Grown on h-BN basal Plane. <i>Small</i> , <b>2017</b> , 13, 1603005	11	73
25	Graphene-Contacted Ultrashort Channel Monolayer MoS Transistors. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702522	21.7	144
24	Highly Sensitive MoS Humidity Sensors Array for Noncontact Sensation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702076	24	223
23	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS Continuous Films. <i>ACS Nano</i> , <b>2017</b> , 11, 12001-12007	16.7	264
22	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. <i>Physical Review Letters</i> , <b>2016</b> , 116, 126101	7.4	103
21	Patterned Peeling 2D MoS <sub>2</sub> off the Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16546-50	9.5	28
20	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. <i>Science</i> , <b>2016</b> , 352, 1443-5	33.3	529
19	Integrated Flexible and High-Quality Thin Film Transistors Based on Monolayer MoS <sub>2</sub> . <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500379	6.4	37
18	The Effect of Twin Grain Boundary Tuned by Temperature on the Electrical Transport Properties of Monolayer MoS <sub>2</sub> . <i>Crystals</i> , <b>2016</b> , 6, 115	2.3	15
17	Rolling Up a Monolayer MoS <sub>2</sub> Sheet. <i>Small</i> , <b>2016</b> , 12, 3770-4	11	39
16	Anisotropic Charge-Carrier Transport in High-Mobility Donor-Acceptor Conjugated Polymer Semiconductor Films. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 2725-2729	4.5	4
15	Patterning monolayer graphene with zigzag edges on hexagonal boron nitride by anisotropic etching. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 053101	3.4	17
14	Oxygen-Assisted Chemical Vapor Deposition Growth of Large Single-Crystal and High-Quality Monolayer MoS <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15632-5	16.4	243
13	Three Dimensional Hybrids of Vertical Graphene-nanosheet Sandwiched by Ag-nanoparticles for Enhanced Surface Selectively Catalytic Reactions. <i>Scientific Reports</i> , <b>2015</b> , 5, 16019	4.9	57

12	Tunable piezoresistivity of nanographene films for strain sensing. <i>ACS Nano</i> , <b>2015</b> , 9, 1622-9	16.7	194
11	Rapid templated fabrication of large-scale, high-density metallic nanocone arrays and SERS applications. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 9987-9992	7.1	9
10	Experimental identification of p-type conduction in fluoridized boron nitride nanotube. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 153107	3.4	12
9	Ultra-sensitive strain sensors based on piezoresistive nanographene films. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 063112	3.4	244
8	Graphene edge lithography. <i>Nano Letters</i> , <b>2012</b> , 12, 4642-6	11.5	39
7	Super-elastic graphene ripples for flexible strain sensors. <i>ACS Nano</i> , <b>2011</b> , 5, 3645-50	16.7	542
6	Patterning graphene with zigzag edges by self-aligned anisotropic etching. <i>Advanced Materials</i> , <b>2011</b> , 23, 3061-5	24	150
5	Characteristic measurements of silicon dioxide aerogel plasmas generated in a Planckian radiation environment. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 012701	2.1	5
4	An anisotropic etching effect in the graphene basal plane. <i>Advanced Materials</i> , <b>2010</b> , 22, 4014-9	24	220
3	Progress in high pressure EDXD system and research at Beijing Synchrotron Radiation Facility. <i>Science Bulletin</i> , <b>2000</b> , 45, 1659-1662		7
2	Analyses of plasma reactive sputter deposition of CNx films by OES. <i>Science Bulletin</i> , <b>1997</b> , 42, 1792-1795		1
1	Testing and analysis of the plastic scintillator units for LHAASO-ED. <i>Radiation Detection Technology and Methods</i> , <sup>1</sup>	0.7	0