

# Guangyu Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7943571/publications.pdf>

Version: 2024-02-01

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	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. <i>Science</i> , 2016, 352, 1443-1445.	6.0	697
2	Super-Elastic Graphene Ripples for Flexible Strain Sensors. <i>ACS Nano</i> , 2011, 5, 3645-3650.	7.3	621
3	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS <sub>2</sub> Continuous Films. <i>ACS Nano</i> , 2017, 11, 12001-12007.	7.3	397
4	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> , 2015, 137, 15632-15635.	6.6	301
5	Ultra-sensitive strain sensors based on piezoresistive nanographene films. <i>Applied Physics Letters</i> , 2012, 101, 063112.	1.5	270
6	Large-scale flexible and transparent electronics based on monolayer molybdenum disulfide field-effect transistors. <i>Nature Electronics</i> , 2020, 3, 711-717.	13.1	255
7	Tunable Piezoresistivity of Nanographene Films for Strain Sensing. <i>ACS Nano</i> , 2015, 9, 1622-1629.	7.3	246
8	An Anisotropic Etching Effect in the Graphene Basal Plane. <i>Advanced Materials</i> , 2010, 22, 4014-4019.	11.1	242
9	Graphene-Contacted Ultrashort Channel Monolayer MoS <sub>2</sub> Transistors. <i>Advanced Materials</i> , 2017, 29, 1702522.	11.1	218
10	Patterning Graphene with Zigzag Edges by Self-Aligned Anisotropic Etching. <i>Advanced Materials</i> , 2011, 23, 3061-3065.	11.1	167
11	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2016, 116, 126101.	2.9	142
12	Precisely Aligned Monolayer MoS <sub>2</sub> Epitaxially Grown on h-BN basal Plane. <i>Small</i> , 2017, 13, 1603005.	5.2	91
13	Twist angle-dependent conductivities across MoS <sub>2</sub> /graphene heterojunctions. <i>Nature Communications</i> , 2018, 9, 4068.	5.8	90
14	Artificial Synapse Based on van der Waals Heterostructures with Tunable Synaptic Functions for Neuromorphic Computing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11945-11954.	4.0	75
15	Rolling Up a Monolayer MoS <sub>2</sub> Sheet. <i>Small</i> , 2016, 12, 3770-3774.	5.2	60
16	Three Dimensional Hybrids of Vertical Graphene-nanosheet Sandwiched by Ag-nanoparticles for Enhanced Surface Selectively Catalytic Reactions. <i>Scientific Reports</i> , 2015, 5, 16019.	1.6	59
17	Flexible 2D Materials beyond Graphene: Synthesis, Properties, and Applications. <i>Small</i> , 2022, 18, e2105383.	5.2	55
18	In Situ Oxygen Doping of Monolayer MoS <sub>2</sub> for Novel Electronics. <i>Small</i> , 2020, 16, e2004276.	5.2	54

#	ARTICLE	IF	CITATIONS
19	A Reliable All-2D Materials Artificial Synapse for High Energy-Efficient Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2011083.	7.8	53
20	Graphene Edge Lithography. <i>Nano Letters</i> , 2012, 12, 4642-4646.	4.5	49
21	Layer-by-layer epitaxy of multi-layer MoS <sub>2</sub> wafers. <i>National Science Review</i> , 2022, 9, .	4.6	41
22	Integrated Flexible and High-Quality Thin Film Transistors Based on Monolayer MoS <sub>2</sub> . <i>Advanced Electronic Materials</i> , 2016, 2, 1500379.	2.6	40
23	Static and Dynamic Piezopotential Modulation in Piezo-Electret Gated MoS <sub>2</sub> Field-Effect Transistor. <i>ACS Nano</i> , 2019, 13, 582-590.	7.3	38
24	Patterned Peeling 2D MoS <sub>2</sub> off the Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16546-16550.	4.0	30
25	Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> Directly on 2D Materials for High-Performance Electronics. <i>Advanced Materials Interfaces</i> , 2019, 6, 1802055.	1.9	25
26	Patterning monolayer graphene with zigzag edges on hexagonal boron nitride by anisotropic etching. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	20
27	Vertical Integration of 2D Building Blocks for All-2D Electronics. <i>Advanced Electronic Materials</i> , 2020, 6, 2000550.	2.6	20
28	Mechanoplastic tribotronic two-dimensional multibit nonvolatile optoelectronic memory. <i>Nano Energy</i> , 2021, 82, 105692.	8.2	20
29	A Review of Microrobot's System: Towards System Integration for Autonomous Actuation In Vivo. <i>Micromachines</i> , 2021, 12, 1249.	1.4	20
30	The Effect of Twin Grain Boundary Tuned by Temperature on the Electrical Transport Properties of Monolayer MoS <sub>2</sub> . <i>Crystals</i> , 2016, 6, 115.	1.0	18
31	Electrical Field Regulation of Ion Transport in Polyethylene Terephthalate Nanochannels. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38055-38060.	4.0	18
32	Seasonal and Lunar Month Periods Observed in Natural Neutron Flux at High Altitude. <i>Pure and Applied Geophysics</i> , 2017, 174, 2763-2771.	0.8	17
33	Strongly distinct electrical response between circular and valley polarization in bilayer transition metal dichalcogenides. <i>Physical Review B</i> , 2019, 99, .	1.1	16
34	Sub-5 nm Lithography with Single GeV Heavy Ions Using Inorganic Resist. <i>Nano Letters</i> , 2021, 21, 2390-2396.	4.5	16
35	Skin-Inspired High-Performance Active-Matrix Circuitry for Multimodal User-Interaction. <i>Advanced Functional Materials</i> , 2021, 31, 2105480.	7.8	14
36	Experimental identification of p-type conduction in fluoridized boron nitride nanotube. <i>Applied Physics Letters</i> , 2013, 102, 153107.	1.5	13

#	ARTICLE	IF	CITATIONS
37	Rapid templated fabrication of large-scale, high-density metallic nanocone arrays and SERS applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9987-9992.	2.7	12
38	Electronic structure-dependent magneto-optical Raman effect in atomically thin WS <sub>2</sub> . <i>2D Materials</i> , 2018, 5, 035028.	2.0	11
39	Response of the environmental thermal neutron flux to earthquakes. <i>Journal of Environmental Radioactivity</i> , 2019, 208-209, 105981.	0.9	11
40	Monolayer MoS <sub>2</sub> epitaxy. <i>Nano Research</i> , 2021, 14, 1598-1608.	5.8	11
41	Scratching lithography for wafer-scale MoS <sub>2</sub> monolayers. <i>2D Materials</i> , 2020, 7, 045028.	2.0	11
42	Progress in high pressure EDXD system and research at Beijing Synchrotron Radiation Facility. <i>Science Bulletin</i> , 2000, 45, 1659-1662.	1.7	7
43	Anisotropic Charge Carrier Transport in High-Mobility Donor-Acceptor Conjugated Polymer Semiconductor Films. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2725-2729.	1.7	7
44	Fabrication and Functioning of Magnetically Gated PET Nanochannels. <i>ChemNanoMat</i> , 2020, 6, 1075-1079.	1.5	7
45	High-Performance Osmotic Power Generators Based on the 1D/2D Hybrid Nanochannel System. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 29197-29212.	4.0	7
46	Characteristic measurements of silicon dioxide aerogel plasmas generated in a Planckian radiation environment. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	5
47	Pressure-mediated contact quality improvement between monolayer MoS <sub>2</sub> and graphite. <i>Chinese Physics B</i> , 2019, 28, 017301.	0.7	5
48	Testing and analysis of the plastic scintillator units for LHAASO-ED. <i>Radiation Detection Technology and Methods</i> , 2021, 5, 513-519.	0.4	3
49	Analyses of plasma reactive sputter deposition of CN <sub>x</sub> films by OES. <i>Science Bulletin</i> , 1997, 42, 1792-1795.	1.7	1
50	High turnover and rescue effect of XRCC1 in response to heavy charged particle radiation. <i>Biophysical Journal</i> , 2022, , .	0.2	1