

Guangyu Zhang

List of Publications by Citations

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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	Super-elastic graphene ripples for flexible strain sensors. <i>ACS Nano</i> , 2011 , 5, 3645-50	16.7	542
46	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. <i>Science</i> , 2016 , 352, 1443-5	33.3	529
45	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS Continuous Films. <i>ACS Nano</i> , 2017 , 11, 12001-12007	16.7	264
44	Ultra-sensitive strain sensors based on piezoresistive nanographene films. <i>Applied Physics Letters</i> , 2012 , 101, 063112	3.4	244
43	Oxygen-Assisted Chemical Vapor Deposition Growth of Large Single-Crystal and High-Quality Monolayer MoS ₂ . <i>Journal of the American Chemical Society</i> , 2015 , 137, 15632-5	16.4	243
42	Highly Sensitive MoS Humidity Sensors Array for Noncontact Sensation. <i>Advanced Materials</i> , 2017 , 29, 1702076	24	223
41	An anisotropic etching effect in the graphene basal plane. <i>Advanced Materials</i> , 2010 , 22, 4014-9	24	220
40	Tunable piezoresistivity of nanographene films for strain sensing. <i>ACS Nano</i> , 2015 , 9, 1622-9	16.7	194
39	Patterning graphene with zigzag edges by self-aligned anisotropic etching. <i>Advanced Materials</i> , 2011 , 23, 3061-5	24	150
38	Graphene-Contacted Ultrashort Channel Monolayer MoS Transistors. <i>Advanced Materials</i> , 2017 , 29, 1702522	24	144
37	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2016 , 116, 126101	7.4	103
36	Large-scale flexible and transparent electronics based on monolayer molybdenum disulfide field-effect transistors. <i>Nature Electronics</i> , 2020 , 3, 711-717	28.4	90
35	Precisely Aligned Monolayer MoS Epitaxially Grown on h-BN basal Plane. <i>Small</i> , 2017 , 13, 1603005	11	73
34	Twist angle-dependent conductivities across MoS/graphene heterojunctions. <i>Nature Communications</i> , 2018 , 9, 4068	17.4	59
33	Three Dimensional Hybrids of Vertical Graphene-nanosheet Sandwiched by Ag-nanoparticles for Enhanced Surface Selectively Catalytic Reactions. <i>Scientific Reports</i> , 2015 , 5, 16019	4.9	57
32	Artificial Synapse Based on van der Waals Heterostructures with Tunable Synaptic Functions for Neuromorphic Computing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11945-11954	9.5	43
31	Graphene edge lithography. <i>Nano Letters</i> , 2012 , 12, 4642-6	11.5	39

30	Rolling Up a Monolayer MoS ₂ Sheet. <i>Small</i> , 2016 , 12, 3770-4	11	39
29	Integrated Flexible and High-Quality Thin Film Transistors Based on Monolayer MoS ₂ . <i>Advanced Electronic Materials</i> , 2016 , 2, 1500379	6.4	37
28	Patterned Peeling 2D MoS ₂ off the Substrate. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16546-509.5		28
27	Static and Dynamic Piezopotential Modulation in Piezo-Electret Gated MoS Field-Effect Transistor. <i>ACS Nano</i> , 2019 , 13, 582-590	16.7	26
26	In Situ Oxygen Doping of Monolayer MoS for Novel Electronics. <i>Small</i> , 2020 , 16, e2004276	11	21
25	A Reliable All-2D Materials Artificial Synapse for High Energy-Efficient Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021 , 31, 2011083	15.6	20
24	Patterning monolayer graphene with zigzag edges on hexagonal boron nitride by anisotropic etching. <i>Applied Physics Letters</i> , 2016 , 109, 053101	3.4	17
23	The Effect of Twin Grain Boundary Tuned by Temperature on the Electrical Transport Properties of Monolayer MoS ₂ . <i>Crystals</i> , 2016 , 6, 115	2.3	15
22	Atomic Layer Deposition of Al ₂ O ₃ Directly on 2D Materials for High-Performance Electronics. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1802055	4.6	14
21	Flexible 2D Materials beyond Graphene: Synthesis, Properties, and Applications.. <i>Small</i> , 2022 , e2105383	11	13
20	Experimental identification of p-type conduction in fluoridized boron nitride nanotube. <i>Applied Physics Letters</i> , 2013 , 102, 153107	3.4	12
19	Seasonal and Lunar Month Periods Observed in Natural Neutron Flux at High Altitude. <i>Pure and Applied Geophysics</i> , 2017 , 174, 2763-2771	2.2	11
18	Electrical Field Regulation of Ion Transport in Polyethylene Terephthalate Nanochannels. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38055-38060	9.5	11
17	Strongly distinct electrical response between circular and valley polarization in bilayer transition metal dichalcogenides. <i>Physical Review B</i> , 2019 , 99,	3.3	10
16	Vertical Integration of 2D Building Blocks for All-2D Electronics. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000550	6.4	10
15	Mechanoplastic tribotronic two-dimensional multibit nonvolatile optoelectronic memory. <i>Nano Energy</i> , 2021 , 82, 105692	17.1	10
14	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	7.1	9
13	Electronic structure-dependent magneto-optical Raman effect in atomically thin WS ₂ . <i>2D Materials</i> , 2018 , 5, 035028	5.9	9

12	Progress in high pressure EDXD system and research at Beijing Synchrotron Radiation Facility. <i>Science Bulletin</i> , 2000 , 45, 1659-1662		7
11	Response of the environmental thermal neutron flux to earthquakes. <i>Journal of Environmental Radioactivity</i> , 2019 , 208-209, 105981	2.4	6
10	Characteristic measurements of silicon dioxide aerogel plasmas generated in a Planckian radiation environment. <i>Physics of Plasmas</i> , 2010 , 17, 012701	2.1	5
9	Scratching lithography for wafer-scale MoS ₂ monolayers. <i>2D Materials</i> , 2020 , 7, 045028	5.9	4
8	Anisotropic Charge-Carrier Transport in High-Mobility Donor-Acceptor Conjugated Polymer Semiconductor Films. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2725-2729	4.5	4
7	Monolayer MoS ₂ epitaxy. <i>Nano Research</i> , 2021 , 14, 1598-1608	10	4
6	Sub-5 nm Lithography with Single GeV Heavy Ions Using Inorganic Resist. <i>Nano Letters</i> , 2021 , 21, 2390-2396	11.5	4
5	Fabrication and Functioning of Magnetically Gated PET Nanochannels. <i>ChemNanoMat</i> , 2020 , 6, 1075-1079	9.5	3
4	Skin-Inspired High-Performance Active-Matrix Circuitry for Multimodal User-Interaction. <i>Advanced Functional Materials</i> , 2021 , 31, 2105480	15.6	3
3	Pressure-mediated contact quality improvement between monolayer MoS ₂ and graphite. <i>Chinese Physics B</i> , 2019 , 28, 017301	1.2	2
2	Analyses of plasma reactive sputter deposition of CN _x films by OES. <i>Science Bulletin</i> , 1997 , 42, 1792-1795		1
1	Testing and analysis of the plastic scintillator units for LHAASO-ED. <i>Radiation Detection Technology and Methods</i> , ¹	0.7	0