

Zhaoli Gao

List of Publications by Year in descending order

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38
papers

1,188
citations

471371

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501076

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docs citations

38
times ranked

2394
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolayer Single-Crystal $1T\bar{2}$ -MoTe ₂ Grown by Chemical Vapor Deposition Exhibits Weak Antilocalization Effect. Nano Letters, 2016, 16, 4297-4304.	4.5	205
2	Origin of Nanoscale Friction Contrast between Supported Graphene, MoS ₂ , and a Graphene/MoS ₂ Heterostructure. Nano Letters, 2019, 19, 5496-5505.	4.5	115
3	Thermal chemical vapor deposition grown graphene heat spreader for thermal management of hot spots. Carbon, 2013, 61, 342-348.	5.4	96
4	Exceptional thermal interface properties of a three-dimensional graphene foam. Carbon, 2014, 66, 201-209.	5.4	94
5	Detection of Sub-fM DNA with Target Recycling and Self-Assembly Amplification on Graphene Field-Effect Biosensors. Nano Letters, 2018, 18, 3509-3515.	4.5	82
6	Large-area synthesis of high-quality monolayer $1T\bar{2}$ -WTe ₂ flakes. 2D Materials, 2017, 4, 021008.	2.0	81
7	Recent Advances in Electrochemical Sensors for Wearable Sweat Monitoring: A Review. IEEE Sensors Journal, 2021, 21, 14522-14539.	2.4	55
8	Large-area epitaxial growth of curvature-stabilized ABC trilayer graphene. Nature Communications, 2020, 11, 546.	5.8	47
9	Scalable Production of Sensor Arrays Based on High-Mobility Hybrid Graphene Field Effect Transistors. ACS Applied Materials & Interfaces, 2016, 8, 27546-27552.	4.0	44
10	Crystalline Bilayer Graphene with Preferential Stacking from Ni-Cu Gradient Alloy. ACS Nano, 2018, 12, 2275-2282.	7.3	43
11	Synthesis and Physical Properties of Phase-Engineered Transition Metal Dichalcogenide Monolayer Heterostructures. ACS Nano, 2017, 11, 8619-8627.	7.3	42
12	Controlled Growth of Large-Area Bilayer Tungsten Diselenides with Lateral P-N Junctions. ACS Nano, 2019, 13, 10490-10498.	7.3	39
13	Fabrication of carbon nanotube thermal interface material on aluminum alloy substrates with low pressure CVD. Nanotechnology, 2011, 22, 265611.	1.3	37
14	Genetically Engineered Antibody Functionalized Platinum Nanoparticles Modified CVD-Graphene Nanohybrid Transistor for the Detection of Breast Cancer Biomarker, HER3. Advanced Materials Interfaces, 2016, 3, 1600124.	1.9	34
15	Growth of Vertically Aligned Carbon Nanotube Arrays on Al Substrates through Controlled Diffusion of Catalyst. Journal of Physical Chemistry C, 2015, 119, 15636-15642.	1.5	19
16	New Approach to Unveiling Individual Atomic Layers of 2D Materials and Their Heterostructures. Chemistry of Materials, 2018, 30, 1718-1728.	3.2	19
17	Graphene transistor arrays functionalized with genetically engineered antibody fragments for Lyme disease diagnosis. 2D Materials, 2020, 7, 024001.	2.0	19
18	Scalable graphene aptasensors for drug quantification. AIP Advances, 2017, 7, .	0.6	16

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19	Modular functionalization of crystalline graphene by recombinant proteins: a nanoplatform for probing biomolecules. <i>Nanoscale</i> , 2018, 10, 22572-22582.	2.8	12
20	A novel method for the fabrication of a high-density carbon nanotube microelectrode array. <i>Sensing and Bio-Sensing Research</i> , 2015, 5, 1-7.	2.2	11
21	Recoil Effect and Photoemission Splitting of Trions in Monolayer MoS ₂ . <i>ACS Nano</i> , 2017, 11, 10808-10815.	7.3	11
22	Recent advances in the properties and synthesis of bilayer graphene and transition metal dichalcogenides. <i>J Phys Materials</i> , 2020, 3, 042003.	1.8	11
23	Scalable chemical vapor deposited graphene field-effect transistors for bio/chemical assay. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	10
24	Graphene heat spreader for thermal management of hot spots. , 2013, , .		7
25	Controlled doping of graphene by impurity charge compensation via a polarized ferroelectric polymer. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	6
26	pH Sensing Properties of Flexible, Bias-Free Graphene Microelectrodes in Complex Fluids: From Phosphate Buffer Solution to Human Serum. <i>Small</i> , 2017, 13, 1700564.	5.2	5
27	Quantum-Well Bound States in Graphene Heterostructure Interfaces. <i>Physical Review Letters</i> , 2021, 127, 086805.	2.9	5
28	Thermal performance of LED packages for solid state lighting with novel cooling solutions. , 2011, , .		4
29	Highly conductive die attach adhesive from percolation control and its applications in light-emitting device thermal management. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	4
30	Synergistic enhancement of photoluminescent intensity in monolayer molybdenum disulfide embedded with plasmonic nanostructures for catalytic sensing. <i>2D Materials</i> , 0, , .	2.0	4
31	Structure evolution of hBN grown on molten Cu by regulating precursor flux during chemical vapor deposition. <i>2D Materials</i> , 2022, 9, 015004.	2.0	4
32	Fabrication of carbon nanotube thermal interface material on aluminium alloy substrates. , 2010, , .		3
33	Coherent Heterostructure Mesh Grown by Gap-Filling Epitaxial Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 0, , .	3.2	2
34	Novel cooling solutions for LED solid state lighting. , 2011, , .		1
35	Performance of high-brightness LEDs with VACNT-TIM on aluminum heat spreaders. , 2011, , .		1
36	Study of CNT growth termination mechanism: Effect of catalyst diffusion. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	VACNT fabrication on aluminum using “fast-heating” thermal CVD. , 2013, , .		0
38	The C-Terminus of the mu Opioid Receptor Is Critical in G-Protein Interaction as Demonstrated by a Novel Graphene Biosensor. IEEE Sensors Journal, 2021, 21, 5758-5762.	2.4	0