Zhaoli Gao

List of Publications by Year
in descending order

38 papers	1,188 citations	471371 17 h-index	501076 28 g-index
38 all docs	38 docs citations	38 times ranked	2394 citing authors

#	Article	IF	Citations
1	Structure evolution of hBN grown on molten Cu by regulating precursor flux during chemical vapor deposition. 2D Materials, 2022, 9, 015004.	2.0	4
2	Recent Advances in Electrochemical Sensors for Wearable Sweat Monitoring: A Review. IEEE Sensors Journal, 2021, 21, 14522-14539.	2.4	55
3	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
4	Scalable chemical vapor deposited graphene field-effect transistors for bio/chemical assay. Applied Physics Reviews, 2021, 8, .	5.5	10
5	Quantum-Well Bound States in Graphene Heterostructure Interfaces. Physical Review Letters, 2021, 127, 086805.	2.9	5
6	Graphene transistor arrays functionalized with genetically engineered antibody fragments for Lyme disease diagnosis. 2D Materials, 2020, 7, 024001.	2.0	19
7	Controlled doping of graphene by impurity charge compensation via a polarized ferroelectric polymer. Journal of Applied Physics, 2020, 127, .	1.1	6
8	Large-area epitaxial growth of curvature-stabilized ABC trilayer graphene. Nature Communications, 2020, 11, 546.	5.8	47
9	Recentadvances in the propertiesand synthesis of bilayer graphene and transition metal dichalcogenides. JPhys Materials, 2020, 3, 042003.	1.8	11
10	Controlled Growth of Large-Area Bilayer Tungsten Diselenides with Lateral Pâ€“N Junctions. ACS Nano, 2019, 13, 10490-10498.	7.3	39
11	Origin of Nanoscale Friction Contrast between Supported Graphene, MoS₂, and a Graphene/MoS₂ Heterostructure. Nano Letters, 2019, 19, 5496-5505.	4.5	115
12	Crystalline Bilayer Graphene with Preferential Stacking from Niâ€“Cu Gradient Alloy. ACS Nano, 2018, 12, 2275-2282.	7.3	43
13	New Approach to Unveiling Individual Atomic Layers of 2D Materials and Their Heterostructures. Chemistry of Materials, 2018, 30, 1718-1728.	3.2	19
14	Modular functionalization of crystalline graphene by recombinant proteins: a nanoplatform for probing biomolecules. Nanoscale, 2018, 10, 22572-22582.	2.8	12
15	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
16	Large-area synthesis of high-quality monolayer 1Tâ€™-WTe ₂ flakes. 2D Materials, 2017, 4, 021008.	2.0	81
17	pH Sensing Properties of Flexible, Biasâ€Free Graphene Microelectrodes in Complex Fluids: From Phosphate Buffer Solution to Human Serum. Small, 2017, 13, 1700564.	5.2	5
18	Synthesis and Physical Properties of Phase-Engineered Transition Metal Dichalcogenide Monolayer Heterostructures. ACS Nano, 2017, 11, 8619-8627.	7.3	42

#	Article	IF	Citations
19	Recoil Effect and Photoemission Splitting of Trions in Monolayer MoS₂. ACS Nano, 2017, 11, 10808-10815.	7.3	11
20	Scalable graphene aptasensors for drug quantification. AIP Advances, 2017, 7, .	0.6	16
21	Monolayer Single-Crystal 1Tâ€²-MoTe₂ Grown by Chemical Vapor Deposition Exhibits Weak Antilocalization Effect. Nano Letters, 2016, 16, 4297-4304.	4.5	205
22	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
23	Genetically Engineered Antibody Functionalized Platinum Nanoparticles Modified CVDâ€Graphene Nanohybrid Transistor for the Detection of Breast Cancer Biomarker, HER3. Advanced Materials Interfaces, 2016, 3, 1600124.	1.9	34
24	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
25	A novel method for the fabrication of a high-density carbon nanotube microelectrode array. Sensing and Bio-Sensing Research, 2015, 5, 1-7.	2.2	11
26	Exceptional thermal interface properties of a three-dimensional graphene foam. Carbon, 2014, 66, 201-209.	5.4	94
27	Thermal chemical vapor deposition grown graphene heat spreader for thermal management of hot spots. Carbon, 2013, 61, 342-348.	5.4	96
28	VACNT fabrication on aluminum using “fast-heating” thermal CVD. , 2013, , .		0
29	Highly conductive die attach adhesive from percolation control and its applications in light-emitting device thermal management. Applied Physics Letters, 2013, 102, .	1.5	4
30	Graphene heat spreader for thermal management of hot spots. , 2013, , .		7
31	Study of CNT growth termination mechanism: Effect of catalyst diffusion. , 2012, , .		0
32	Fabrication of carbon nanotube thermal interface material on aluminum alloy substrates with low pressure CVD. Nanotechnology, 2011, 22, 265611.	1.3	37
33	Novel cooling solutions for LED solid state lighting. , 2011, , .		1
34	Thermal performance of LED packages for solid state lighting with novel cooling solutions. , 2011, , .		4
35	Performance of high-brightness LEDs with VACNT-TIM on aluminum heat spreaders. , 2011, , .		1
36	Fabrication of carbon nanotube thermal interface material on aluminium alloy substrates. , 2010, , .		3

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37	Synergistic enhancement of photoluminesent intensity in monolayer molybdenum disulfide embedded with plasmonic nanostructures for catalytic sensing. 2D Materials, 0, , .	2.0	4
38	Coherent Heterostructure Mesh Grown by Gap-Filling Epitaxial Chemical Vapor Deposition. Chemistry of Materials, 0, , .	3.2	2