

Zhenwei Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

10,676
citations

567281

15
h-index

434195

31
g-index

31
all docs

31
docs citations

31
times ranked

16177
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Area Synthesis of High-Quality and Uniform Graphene Films on Copper Foils. <i>Science</i> , 2009, 324, 1312-1314.	12.6	10,000
2	Thermal conductivity of twisted bilayer graphene. <i>Nanoscale</i> , 2014, 6, 13402-13408.	5.6	136
3	Detection of sulfur dioxide gas with graphene field effect transistor. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	64
4	Graphene-Based Fluorescence-Quenching-Related Fermi Level Elevation and Electron-Concentration Surge. <i>Nano Letters</i> , 2016, 16, 5737-5741.	9.1	48
5	Fractal-Based Control of the Shape and Quality of CVD-Grown 2D Materials. <i>Advanced Materials</i> , 2019, 31, e1902431.	21.0	48
6	Interlayer coupling of a direct van der Waals epitaxial MoS ₂ /graphene heterostructure. <i>RSC Advances</i> , 2016, 6, 323-330.	3.6	42
7	Nonpolar Resistive Switching of Multilayer-hBN-Based Memories. <i>Advanced Electronic Materials</i> , 2020, 6, 1900979.	5.1	42
8	Polycrystalline Few-Layer Graphene as a Durable Anticorrosion Film for Copper. <i>Nano Letters</i> , 2021, 21, 1161-1168.	9.1	39
9	Smart electrochromic supercapacitors based on highly stable transparent conductive graphene/CuS network electrodes. <i>RSC Advances</i> , 2017, 7, 29088-29095.	3.6	35
10	In Situ Raman Probing of Hot-Electron Transfer at Gold-Graphene Interfaces with Atomic Layer Accuracy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	24
11	Passive Synchronization of 1.06- and 1.53- μ m Fiber Lasers Q-switched by a Common Graphene SA. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1474-1477.	2.5	23
12	Magnetically-induced alignment of graphene via Landau diamagnetism. <i>Carbon</i> , 2018, 131, 66-71.	10.3	23
13	Temperature-Related Morphological Evolution of MoS ₂ Domains on Graphene and Electron Transfer within Heterostructures. <i>Small</i> , 2017, 13, 1603549.	10.0	20
14	CVD synthesis of nitrogen-doped graphene using urea. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1.	5.1	19
15	Synergistically reinforced lithium storage performance of in situ chemically grown silicon@silicon oxide core-shell nanowires on three-dimensional conductive graphitic scaffolds. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13859.	10.3	18
16	Electron redistribution and energy transfer in graphene/MoS ₂ heterostructure. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	15
17	Progressive RESET induced by Joule heating in hBN RRAMs. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	14
18	Oxygen-assisted synthesis of hexagonal boron nitride films for graphene transistors. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	12

#	ARTICLE	IF	CITATIONS
19	Enhancing the photoelectrical performance of graphene/4H-SiC/graphene detector by tuning a Schottky barrier by bias. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	11
20	Isotope effect of the phonons mean free path in graphene by micro-Raman measurement. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 1817-1821.	5.1	6
21	Critical Annealing Temperature for Stacking Orientation of Bilayer Graphene. <i>Small</i> , 2018, 14, e1802498.	10.0	6
22	A visualization method for probing grain boundaries of single layer graphene via molecular beam epitaxy. <i>Nanotechnology</i> , 2017, 28, 305601.	2.6	5
23	SYNTHESES OF LARGE-SIZED SINGLE CRYSTAL GRAPHENE: A REVIEW OF RECENT DEVELOPMENTS. <i>Surface Review and Letters</i> , 2019, 26, 1830007.	1.1	4
24	Effect of graphene grain boundaries on MoS ₂ /graphene heterostructures*. <i>Chinese Physics B</i> , 2020, 29, 067403.	1.4	4
25	Characteristics of graphene/4H-SiC/graphene photodetector based on hydrogenated multilayer-graphene electrode. <i>Journal of Nanophotonics</i> , 2019, 13, 1.	1.0	4
26	Atomic-concentration diffusion governing integrated-territory graphene syntheses at catalyst-insulator interfaces. <i>Carbon</i> , 2016, 102, 403-408.	10.3	3
27	Capabilities of transition metals in retarding the bonding of carbon atoms to minimize dendritic graphene. <i>Nanoscale</i> , 2017, 9, 14804-14808.	5.6	3
28	Enhanced Raman scattering of graphene on Ag nanoislands. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 2021-2023.	5.1	2
29	An ion-migration and electron-transfer cycle containing graphene and copper substrate analyzed with Raman spectra. <i>Carbon</i> , 2017, 116, 15-19.	10.3	2
30	Raman Spectroscopy of Multi-Layer Graphene epitaxially Grown on 4H-SiC by Joule Heat Decomposition. <i>Nanoscale Research Letters</i> , 2018, 13, 197.	5.7	2