

Gengzhao Xu

List of Publications by Year in descending order

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30
papers

1,144
citations

516710

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477307

29
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30
all docs

30
docs citations

30
times ranked

2652
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical etching of freestanding N-polar GaN in control of the surface morphology. Applied Surface Science, 2022, 580, 152125.	6.1	2
2	Cl-Assisted Perovskite Crystallization Pathway in the Confined Space of Mesoporous Metal Oxides Unveiled by In Situ Grazing Incidence Wide-Angle X-ray Scattering. Chemistry of Materials, 2022, 34, 2231-2237.	6.7	9
3	Direct measurement for nanoscale vertical carrier diffusion on semiconductor surface—An approach toward scanning diffusion microscopy. Journal of Applied Physics, 2022, 131, .	2.5	2
4	The spectroscopic ellipsometry measurement of non-polar freestanding GaN: comparison between isotropic and anisotropic models. Journal Physics D: Applied Physics, 2022, 55, 235104.	2.8	0
5	Numerical analysis of vibration modes of a qPlus sensor with a long tip. Beilstein Journal of Nanotechnology, 2021, 12, 82-92.	2.8	3
6	Enhanced perovskite electronic properties via A-site cation engineering. Fundamental Research, 2021, 1, 385-392.	3.3	34
7	Dual-channel type tunable field-effect transistors based on vertical bilayer WS ₂ (1 st layer)/SnS ₂ heterostructures. Information Materials, 2020, 2, 752-760.	4.3	32
8	Surface morphology of polar, semipolar and nonpolar freestanding GaN after chemical etching. Applied Surface Science, 2020, 511, 145524.	6.1	6
9	Polar-Induced Selective Epitaxial Growth of Multijunction Nanoribbons for High-Performance Optoelectronics. ACS Applied Materials & Interfaces, 2019, 11, 15813-15820.	8.0	7
10	A multiscale flexible pressure sensor based on nanovesicle-like hollow microspheres for micro-vibration detection in non-contact mode. Nanoscale, 2019, 11, 5737-5745.	5.6	19
11	Improved Performance of Printable Perovskite Solar Cells with Bifunctional Conjugated Organic Molecule. Advanced Materials, 2018, 30, 1705786.	21.0	209
12	Visualizing Carrier Transport in Metal Halide Perovskite Nanoplates via Electric Field Modulated Photoluminescence Imaging. Nano Letters, 2018, 18, 3024-3031.	9.1	38
13	A Multifunctional Bis-Adduct Fullerene for Efficient Printable Mesoscopic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 10835-10841.	8.0	28
14	SiO ₂ -Enhanced Structural Stability and Strong Adhesion with a New Binder of Konjac Glucomannan Enables Stable Cycling of Silicon Anodes for Lithium-Ion Batteries. Advanced Energy Materials, 2018, 8, 1800434.	19.5	135
15	Band Alignment Engineering in Two-Dimensional Lateral Heterostructures. Journal of the American Chemical Society, 2018, 140, 11193-11197.	13.7	136
16	Measuring the local mobility of graphene on semiconductors. Physical Review Materials, 2018, 2, .	2.4	2
17	Ultraviolet photoresponse of surface acoustic wave device based on Fe-doped high-resistivity GaN. Japanese Journal of Applied Physics, 2017, 56, 050307.	1.5	2
18	Direct Vapor Growth of Perovskite CsPbBr ₃ Nanoplate Electroluminescence Devices. ACS Nano, 2017, 11, 9869-9876.	14.6	117

#	ARTICLE	IF	CITATIONS
19	In Operando Mechanism Analysis on Nanocrystalline Silicon Anode Material for Reversible and Ultrafast Sodium Storage. <i>Advanced Materials</i> , 2017, 29, 1604708.	21.0	95
20	Strong-Field-Enhanced Spectroscopy in Silicon Nanoparticle Electric and Magnetic Dipole Resonance near a Metal Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28127-28135.	3.1	46
21	Surface acoustic waves in semi-insulating Fe-doped GaN films grown by hydride vapor phase epitaxy. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	9
22	Charge transport mechanisms of graphene/semiconductor Schottky barriers: A theoretical and experimental study. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	62
23	Graphene in ohmic contact for both n-GaN and p-GaN. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	21
24	Nanoscale active hybrid plasmonic laser with a metal-clad metal-insulator-semiconductor square resonator. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 1422.	2.1	5
25	Constant current etching of gold tips suitable for tip-enhanced Raman spectroscopy. <i>Review of Scientific Instruments</i> , 2012, 83, 103708.	1.3	19
26	Local ultra-violet surface photovoltage spectroscopy of single thread dislocations in gallium nitrides by Kelvin probe force microscopy. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	10
27	Self-adaptive electronic contact between graphene and semiconductors. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	44
28	Transition Voltage Spectroscopy of Porphyrin Molecular Wires. <i>Small</i> , 2010, 6, 2604-2611.	10.0	35
29	STM Study of Molecule Double-Rows in Mixed Self-Assembled Monolayers of Alkanethiols. <i>Langmuir</i> , 2010, 26, 8174-8179.	3.5	10
30	Self-Absorption Effect in the Spatial Resolved Spectra of CdS Nano-Ribbon Optical Waveguide Observed by Near-Field Spectroscopy. <i>Optical Review</i> , 2006, 13, 235-238.	2.0	7