

Xu Zhang

List of Publications by Year in descending order

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36
papers

2,883
citations

331670

21
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434195

31
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37
all docs

37
docs citations

37
times ranked

5361
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman Enhancement Effect on Two-Dimensional Layered Materials: Graphene, h-BN and MoS ₂ . Nano Letters, 2014, 14, 3033-3040.	9.1	464
2	Role of Interfacial Oxide in High-Efficiency Graphene-Silicon Schottky Barrier Solar Cells. Nano Letters, 2015, 15, 2104-2110.	9.1	404
3	Two-dimensional MoS ₂ -enabled flexible rectenna for Wi-Fi-band wireless energy harvesting. Nature, 2019, 566, 368-372.	27.8	266
4	High-Performance WSe ₂ Complementary Metal Oxide Semiconductor Technology and Integrated Circuits. Nano Letters, 2015, 15, 4928-4934.	9.1	204
5	Parallel Stitching of 2D Materials. Advanced Materials, 2016, 28, 2322-2329.	21.0	195
6	High electrical conductivity and carrier mobility in oCVD PEDOT thin films by engineered crystallization and acid treatment. Science Advances, 2018, 4, eaat5780.	10.3	167
7	GaN-on-Si Vertical Schottky and p-n Diodes. IEEE Electron Device Letters, 2014, 35, 618-620.	3.9	154
8	Vertical GaN Junction Barrier Schottky Rectifiers by Selective Ion Implantation. IEEE Electron Device Letters, 2017, 38, 1097-1100.	3.9	136
9	Synthesis of High-Quality Large-Area Homogenous 1T MoTe ₂ from Chemical Vapor Deposition. Advanced Materials, 2016, 28, 9526-9531.	21.0	125
10	Impact of Chlorine Functionalization on High-Mobility Chemical Vapor Deposition Grown Graphene. ACS Nano, 2013, 7, 7262-7270.	14.6	111
11	Fully Vertical GaN p-i-n Diodes Using GaN-on-Si Epilayers. IEEE Electron Device Letters, 2016, 37, 636-639.	3.9	86
12	Active Matrix Monolithic LED Micro-Display Using GaN-on-Si Epilayers. IEEE Photonics Technology Letters, 2019, 31, 865-868.	2.5	66
13	Role of Molecular Sieves in the CVD Synthesis of Large-Area 2D MoTe ₂ . Advanced Functional Materials, 2017, 27, 1603491.	14.9	58
14	Large-Area 2-D Electronics: Materials, Technology, and Devices. Proceedings of the IEEE, 2013, 101, 1638-1652.	21.3	46
15	X-Ray Spectroscopic Investigation of Chlorinated Graphene: Surface Structure and Electronic Effects. Advanced Functional Materials, 2015, 25, 4163-4169.	14.9	46
16	Fully- and Quasi-Vertical GaN-on-Si p-i-n Diodes: High Performance and Comprehensive Comparison. IEEE Transactions on Electron Devices, 2017, 64, 809-815.	3.0	45
17	Asymmetric hot-carrier thermalization and broadband photoresponse in graphene-2D semiconductor lateral heterojunctions. Science Advances, 2019, 5, eaav1493.	10.3	43
18	Cartilage-inspired superelastic ultradurable graphene aerogels prepared by the selective gluing of intersheet joints. Nanoscale, 2016, 8, 12900-12909.	5.6	35

#	ARTICLE	IF	CITATIONS
19	Vertical Ga_2O_3 Schottky Barrier Diodes with Enhanced Breakdown Voltage and High Switching Performance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900497.	1.8	34
20	Characterization of Bundled and Individual Triple-Walled Carbon Nanotubes by Resonant Raman Spectroscopy. <i>ACS Nano</i> , 2013, 7, 2381-2387.	14.6	30
21	Breakdown Ruggedness of Quasi-Vertical GaN-Based p-i-n Diodes on Si Substrates. <i>IEEE Electron Device Letters</i> , 2016, 37, 1158-1161.	3.9	30
22	Kirigami Engineering of Nanoscale Structures Exhibiting a Range of Controllable 3D Configurations. <i>Advanced Materials</i> , 2021, 33, e2005275.	21.0	21
23	Monolithic full-color microdisplay using patterned quantum dot photoresist on dual-wavelength LED epilayers. <i>Journal of the Society for Information Display</i> , 2021, 29, 157-165.	2.1	19
24	Vertical LEDs on Rigid and Flexible Substrates Using GaN-on-Si Epilayers and Au-Free Bonding. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 1587-1593.	3.0	17
25	Circuit-Level Memory Technologies and Applications based on 2D Materials. <i>Advanced Materials</i> , 2022, 34, .	21.0	17
26	Switching performance of quasi-vertical GaN-based p-i-n diodes on Si. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600817.	1.8	15
27	Fully-integrated AMLED micro display system with a hybrid voltage regulator. , 2017, , .		10
28	MoS_2 Phase-junction-based Schottky Diodes for RF Electronics. , 2018, , .		8
29	Forward Conduction Instability of Quasi-Vertical GaN p-i-n Diodes on Si Substrates. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 3992-3998.	3.0	7
30	GaN Single Nanowire p-i-n Diode for High-Temperature Operations. <i>ACS Applied Electronic Materials</i> , 2020, 2, 719-724.	4.3	7
31	23: Late News Paper: High-Resolution Monolithic Micro-LED Full-color Microdisplay. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 339-342.	0.3	6
32	Scalable and Versatile Transfer of Sensitive Two-dimensional Materials. <i>Nano Letters</i> , 2022, 22, 2342-2349.	9.1	4
33	Controlled growth of two-dimensional InAs single crystals via van der Waals epitaxy. <i>Nano Research</i> , 0, , .	10.4	4
34	Selective lateral photoelectrochemical wet etching of InGaN nanorods. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020, 38, 060602.	1.2	2
35	Two-dimensional materials for ubiquitous electronics. , 2013, , .		1
36	Correction: Cartilage-inspired superelastic ultradurable graphene aerogels prepared by the selective gluing of intersheet joints. <i>Nanoscale</i> , 2016, 8, 13079-13079.	5.6	0