

Xianhe Liu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

541
citations

759233

12
h-index

888059

17
g-index

24
all docs

24
docs citations

24
times ranked

609
citing authors

#	ARTICLE	IF	CITATIONS
1	N-polar InGaN nanowires: breaking the efficiency bottleneck of nano and micro LEDs. <i>Photonics Research</i> , 2022, 10, 587.	7.0	31
2	Crystallographic Effects of GaN Nanostructures in Photoelectrochemical Reaction. <i>Nano Letters</i> , 2022, 22, 2236-2243.	9.1	12
3	III-nitride nanostructures: Emerging applications for Micro-LEDs, ultraviolet photonics, quantum optoelectronics, and artificial photosynthesis. <i>Progress in Quantum Electronics</i> , 2022, 85, 100401.	7.0	26
4	Oxygen defect dominated photoluminescence emission of Sc _x Al _{1-x} N grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	22
5	Nanoscale and quantum engineering of III-nitride heterostructures for high efficiency UV-C and far UV-C optoelectronics. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 110501.	1.5	3
6	Monolithic integration of multicolor InGaN LEDs with uniform luminescence emission. <i>Optics Express</i> , 2021, 29, 32826.	3.4	7
7	High efficiency InGaN nanowire tunnel junction green micro-LEDs. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	16
8	An electrically pumped surface-emitting semiconductor green laser. <i>Science Advances</i> , 2020, 6, eaav7523.	10.3	70
9	Micrometer scale InGaN green light emitting diodes with ultra-stable operation. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	21
10	Controlling Defect Formation of Nanoscale AlN: Toward Efficient Current Conduction of Ultrawide-Bandgap Semiconductors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000337.	5.1	19
11	Emerging Applications of III-Nitride Nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900885.	1.8	8
12	Realization of High-Q Microring Resonators with Single Crystal Aluminum Nitride. , 2019, , .		0
13	Ultra-High-Q Microring Resonators using Single Crystal Aluminum Nitride on Sapphire Platform. , 2019, , .		1
14	AlGa _N Nanocrystal Ultraviolet LEDs and Laser Diodes. , 2019, , .		0
15	III-Nitride Nanocrystals: From Low Threshold Ultraviolet Laser Diodes to High Efficiency Artificial Photosynthesis. , 2019, , .		0
16	AlGa _N Nanowire Photonic Crystals: Design, Epitaxy, and High Efficiency Deep UV LEDs. , 2018, , .		0
17	Improving the Efficiency of Transverse Magnetic Polarized Emission from AlGa _N Based LEDs by Using Nanowire Photonic Crystal. <i>IEEE Photonics Journal</i> , 2018, 10, 1-11.	2.0	20
18	AlGa _N nanowire deep ultraviolet optoelectronics. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	Molecular beam epitaxial growth and characterization of AlN nanowall deep UV light emitting diodes. Applied Physics Letters, 2017, 111, 101103.	3.3	10
20	Scalable Nanowire Photonic Crystals: Molding the Light Emission of InGaN. Advanced Functional Materials, 2017, 27, 1702364.	14.9	48
21	Selective area epitaxy of AlGaIn nanowire arrays across nearly the entire compositional range for deep ultraviolet photonics. Optics Express, 2017, 25, 30494.	3.4	42
22	AlGaIn nanowire deep ultraviolet light emitting diodes and lasers. , 2017, , .		0
23	Controlled Coalescence of AlGaIn Nanowire Arrays: An Architecture for Nearly Dislocation-Free Planar Ultraviolet Photonic Device Applications. Advanced Materials, 2016, 28, 8446-8454.	21.0	90
24	Engineering the Carrier Dynamics of InGaIn Nanowire White Light-Emitting Diodes by Distributed p-AlGaIn Electron Blocking Layers. Scientific Reports, 2015, 5, 7744.	3.3	93