

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	Engineering the Carrier Dynamics of InGaN Nanowire White Light-Emitting Diodes by Distributed p-AlGaIn Electron Blocking Layers. <i>Scientific Reports</i> , 2015, 5, 7744.	3.3	93
2	Controlled Coalescence of AlGaIn Nanowire Arrays: An Architecture for Nearly Dislocation-Free Planar Ultraviolet Photonic Device Applications. <i>Advanced Materials</i> , 2016, 28, 8446-8454.	21.0	90
3	An electrically pumped surface-emitting semiconductor green laser. <i>Science Advances</i> , 2020, 6, eaav7523.	10.3	70
4	Scalable Nanowire Photonic Crystals: Molding the Light Emission of InGaIn. <i>Advanced Functional Materials</i> , 2017, 27, 1702364.	14.9	48
5	Selective area epitaxy of AlGaIn nanowire arrays across nearly the entire compositional range for deep ultraviolet photonics. <i>Optics Express</i> , 2017, 25, 30494.	3.4	42
6	N-polar InGaIn nanowires: breaking the efficiency bottleneck of nano and micro LEDs. <i>Photonics Research</i> , 2022, 10, 587.	7.0	31
7	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
8	Oxygen defect dominated photoluminescence emission of ScAlIn grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	22
9	Micrometer scale InGaIn green light emitting diodes with ultra-stable operation. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	21
10	Improving the Efficiency of Transverse Magnetic Polarized Emission from AlGaIn Based LEDs by Using Nanowire Photonic Crystal. <i>IEEE Photonics Journal</i> , 2018, 10, 1-11.	2.0	20
11	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
12	High efficiency InGaIn nanowire tunnel junction green micro-LEDs. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	16
13	Crystallographic Effects of GaIn Nanostructures in Photoelectrochemical Reaction. <i>Nano Letters</i> , 2022, 22, 2236-2243.	9.1	12
14	Molecular beam epitaxial growth and characterization of AlN nanowall deep UV light emitting diodes. <i>Applied Physics Letters</i> , 2017, 111, 101103.	3.3	10
15	Emerging Applications of III-Nitride Nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900885.	1.8	8
16	Monolithic integration of multicolor InGaIn LEDs with uniform luminescence emission. <i>Optics Express</i> , 2021, 29, 32826.	3.4	7
17	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
18	AlGaIn nanowire deep ultraviolet optoelectronics. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	Ultra-High-Q Microring Resonators using Single Crystal Aluminum Nitride on Sapphire Platform. , 2019, , .		1
20	AlGaIn nanowire deep ultraviolet light emitting diodes and lasers. , 2017, , .		0
21	AlGaIn Nanowire Photonic Crystals: Design, Epitaxy, and High Efficiency Deep UV LEDs. , 2018, , .		0
22	Realization of High-Q Microring Resonators with Single Crystal Aluminum Nitride. , 2019, , .		0
23	AlGaIn Nanocrystal Ultraviolet LEDs and Laser Diodes. , 2019, , .		0
24	III-Nitride Nanocrystals: From Low Threshold Ultraviolet Laser Diodes to High Efficiency Artificial Photosynthesis. , 2019, , .		0