Shiping Guo

List of Publications by Year in descending order

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516561 434063 41 990 16 31 citations h-index g-index papers 41 41 41 1114 citing authors docs citations times ranked all docs

#	Article	IF	CITATIONS
1	Conductive SiO2/HfO2 distributed Bragg reflector achieved by electrical breakdown and its application in GaN-based light emitters. Journal of Applied Physics, 2022, 131, 045301.	1.1	2
2	Fast-Response Amorphous Gaâ,,Oâ, f Solar-Blind Ultraviolet Photodetectors Tuned by a Polar AlN Template. IEEE Electron Device Letters, 2022, 43, 68-71.	2.2	24
3	Structural and optical properties of AlN sputtering deposited on sapphire substrates with various orientations. Journal of Semiconductors, 2022, 43, 022801.	2.0	6
4	Highâ€Efficiency Eâ€Beam Pumped Deepâ€Ultraviolet Surface Emitter Based on AlGaN Ultraâ€Thin Staggered Quantum Wells. Advanced Optical Materials, 2022, 10, .	3.6	5
5	Polarization modulation of 2DEG toward plasma-damage-free GaN HEMT isolation. Applied Physics Letters, 2022, 121, 012104.	1.5	6
6	Carrier localization and defect-insensitive optical behaviors of ultraviolet multiple quantum wells grown on patterned AlN nucleation layer. Journal of Alloys and Compounds, 2021, 861, 157589.	2.8	0
7	AlGaN-Based Deep Ultraviolet Vertical-Cavity Surface-Emitting Laser. IEEE Electron Device Letters, 2021, 42, 375-378.	2.2	19
8	Evidence of Carrier Localization in AlGaN/GaNâ€Based UV Multiple Quantum Wells with Opposite Polarity Domains Provided by Nanoscale Imaging. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100035.	1.2	3
9	Transverse Electric Lasing at a Record Short Wavelength 244.63 nm from GaN Quantum Wells with Weak Exciton Localization. ACS Photonics, 2021, 8, 1264-1270.	3.2	3
10	Role of Interface Induced Gap States in Polar AlxGa1â^'xN (O â‰≇€‰x â‰≇€‰1) Schottky Diodes. Jou Electronic Materials, 2021, 50, 3731-3738.	urnal of 1.0	4
11	Efficient Carrier Recombination in InGaN Pyramidal Â μ -LEDs Obtained through Selective Area Growth. Photonics, 2021, 8, 157.	0.9	1
12	Self-powered ultraviolet MSM photodetectors with high responsivity enabled by a lateral n ⁺ /n ^{â^'} homojunction from opposite polarity domains. Optics Letters, 2021, 46, 3203.	1.7	20
13	Ultraâ∈High Performance Amorphous Ga ₂ O ₃ Photodetector Arrays for Solarâ∈Blind Imaging. Advanced Science, 2021, 8, e2101106.	5.6	91
14	Self-powered ultraviolet photodiode based on lateral polarity structure GaN films. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, .	0.6	8
15	Efficiency Droop Suppression and Light Output Power Enhancement of Deep Ultraviolet Light-Emitting Diode by Incorporating Inverted-V-Shaped Quantum Barriers. IEEE Transactions on Electron Devices, 2020, 67, 4958-4962.	1.6	9
16	Polarity Control and Nanoscale Optical Characterization of AlGaN-Based Multiple-Quantum-Wells for Ultraviolet C Emitters. ACS Applied Nano Materials, 2020, 3, 5335-5342.	2.4	10
17	On the Luminescence Properties and Surface Passivation Mechanism of III- and N-Polar Nanopillar Ultraviolet Multiple-Quantum-Well Light Emitting Diodes. Micromachines, 2020, 11, 572.	1.4	0
18	Polarity control and fabrication of lateral polarity structures of III-nitride thin films and devices: progress and prospects. Journal Physics D: Applied Physics, 2020, 53, 483002.	1.3	14

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19	Demonstration of ohmic contact using \${{m MoO}_{m x}}/{m Al}\$MoO _x /Al on p-GaN and the proposal of a reflective electrode for AlGaN-based DUV-LEDs. Optics Letters, 2020, 45, 2427.	1.7	3
20	Strain modulated nanostructure patterned AlGaN-based deep ultraviolet multiple-quantum-wells for polarization control and light extraction efficiency enhancement. Nanotechnology, 2019, 30, 435202.	1.3	13
21	Mechanism of Improved Luminescence Intensity of Ultraviolet Light Emitting Diodes (UV-LEDs) Under Thermal and Chemical Treatments. IEEE Photonics Journal, 2019, 11, 1-8.	1.0	5
22	Unambiguously Enhanced Ultraviolet Luminescence of AlGaN Wavy Quantum Well Structures Grown on Large Misoriented Sapphire Substrate. Advanced Functional Materials, 2019, 29, 1905445.	7.8	128
23	Deep UV Laser at 249 nm Based on GaN Quantum Wells. ACS Photonics, 2019, 6, 2387-2391.	3.2	20
24	Deep Ultraviolet Light Source from Ultrathin GaN/AlN MQW Structures with Output Power Over 2 Watt. Advanced Optical Materials, 2019, 7, 1801763.	3.6	43
25	GaN based UVâ€LEDs with Ni/Au Nanomeshes as Transparent pâ€type Electrodes. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800684.	0.8	2
26	Omnidirectional whispering-gallery-mode lasing in GaN microdisk obtained by selective area growth on sapphire substrate. Optics Express, 2019, 27, 16195.	1.7	10
27	Three-dimensional band diagram in lateral polarity junction III-nitride heterostructures. Optica, 2019, 6, 1058.	4.8	13
28	Tuning photonic crystal fabrication by nanosphere lithography and surface treatment of AlGaN-based ultraviolet light-emitting diodes. Materials and Design, 2018, 160, 661-670.	3.3	18
29	Performance enhancement of ultraviolet light emitting diode incorporating Al nanohole arrays. Nanotechnology, 2018, 29, 45LT01.	1.3	8
30	Lateralâ€Polarity Structure of AlGaN Quantum Wells: A Promising Approach to Enhancing the Ultraviolet Luminescence. Advanced Functional Materials, 2018, 28, 1802395.	7.8	51
31	Tuning of the Contact Properties for High-Efficiency Si/PEDOT:PSS Heterojunction Solar Cells. ACS Energy Letters, 2017, 2, 556-562.	8.8	75
32	Polarity Control of GaN and Realization of GaN Schottky Barrier Diode Based on Lateral Polarity Structure. IEEE Transactions on Electron Devices, 2017, 64, 4424-4429.	1.6	12
33	Enhancing light coupling and emission efficiencies of AlGaN thin film and AlGaN/GaN multiple quantum wells with periodicity-wavelength matched nanostructure array. Nanoscale, 2017, 9, 15477-15483.	2.8	16
34	Atomically Thin MoS ₂ Narrowband and Broadband Light Superabsorbers. ACS Nano, 2016, 10, 7493-7499.	7.3	82
35	Growth and characterization of Al _{<i>x</i>} Ga _{1â°'<i>x</i>} N lateral polarity structures. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1039-1042.	0.8	15
36	Nanostructure surface patterning of GaN thin films and application to AlGaN/AlN multiple quantum wells: A way towards light extraction efficiency enhancement of III-nitride based light emitting diodes. Journal of Applied Physics, 2015, 117, 113107.	1.1	29

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#	Article	IF	CITATIONS
37	Stimulated emission and optical gain in AlGaN heterostructures grown on bulk AlN substrates. Journal of Applied Physics, 2014, 115 , .	1.1	56
38	Sapphire decomposition and inversion domains in N-polar aluminum nitride. Applied Physics Letters, 2014, 104, .	1.5	29
39	The effect of polarity and surface states on the Fermi level at III-nitride surfaces. Journal of Applied Physics, 2014, 116, .	1.1	75
40	Direct Observation of the Polarity Control Mechanism in Aluminum Nitride Grown on Sapphire by Aberration Corrected Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 162-163.	0.2	2
41	Polarity control and growth of lateral polarity structures in AlN. Applied Physics Letters, 2013, 102, .	1.5	60