

Zhang Baoping

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,072
citations

516561

16
h-index

434063

31
g-index

61
all docs

61
docs citations

61
times ranked

1003
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of single and combined UV-LEDs on inactivation and subsequent reactivation of E.Âcoli in water disinfection. <i>Water Research</i> , 2018, 147, 331-341.	5.3	131
2	Quantum dot vertical-cavity surface-emitting lasers covering the â€˜green gapâ€™™. <i>Light: Science and Applications</i> , 2017, 6, e16199-e16199.	7.7	92
3	Room temperature continuous wave lasing of electrically injected GaN-based vertical cavity surface emitting lasers. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	78
4	Highâ€Efficiency Allâ€Dielectric Metalenses for Midâ€Infrared Imaging. <i>Advanced Optical Materials</i> , 2017, 5, 1700585.	3.6	75
5	Comparison of the performance of pulsed and continuous UVC-LED irradiation in the inactivation of bacteria. <i>Water Research</i> , 2019, 157, 218-227.	5.3	64
6	Low threshold continuous-wave lasing of yellow-green InGaN-QD vertical-cavity surface-emitting lasers. <i>Optics Express</i> , 2016, 24, 15546.	1.7	57
7	Progress and prospects of GaN-based VCSEL from near UV to green emission. <i>Progress in Quantum Electronics</i> , 2018, 57, 1-19.	3.5	54
8	Efficient hole transport in asymmetric coupled InGaN multiple quantum wells. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	51
9	Strong localization effect and carrier relaxation dynamics in self-assembled InGaN quantum dots emitting in the green. <i>Nanoscale Research Letters</i> , 2015, 10, 31.	3.1	51
10	Efficacy of UVC-LED in water disinfection on <i>Bacillus</i> species with consideration of antibiotic resistance issue. <i>Journal of Hazardous Materials</i> , 2020, 386, 121968.	6.5	40
11	Advances in application of ultraviolet irradiation for biofilm control in water and wastewater infrastructure. <i>Journal of Hazardous Materials</i> , 2022, 421, 126682.	6.5	40
12	Spectral dynamics of picosecond gain-switched pulses from nitride-based vertical-cavity surface-emitting lasers. <i>Scientific Reports</i> , 2014, 4, 4325.	1.6	25
13	Inorganic Lead-Free B-Î³-CsSnI₃ Perovskite Solar Cells Using Diverse Electron-Transporting Materials: A Simulation Study. <i>ACS Omega</i> , 2021, 6, 26689-26698.	1.6	24
14	A comparative study of thermal characteristics of GaN-based VCSELs with three different typical structures. <i>Semiconductor Science and Technology</i> , 2018, 33, 015016.	1.0	24
15	Low Threshold Lasing of GaN-Based VCSELs With Sub-Nanometer Roughness Polishing. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 2014-2017.	1.3	20
16	Realization of Third-Order OAM Mode Using Ring Patch Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 7607-7611.	3.1	20
17	AlGaIn-Based Deep Ultraviolet Vertical-Cavity Surface-Emitting Laser. <i>IEEE Electron Device Letters</i> , 2021, 42, 375-378.	2.2	19
18	Electrically injected GaN-based microdisk towards an efficient whispering gallery mode laser. <i>Optics Express</i> , 2021, 29, 5598.	1.7	13

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19	Optical gain based on NaYF ₄ : Er ³⁺ , Yb ³⁺ nanoparticles-doped polymer waveguide under convenient LED pumping. Applied Physics Letters, 2021, 118, .	1.5	12
20	Dynamics of carrier tunneling and recombination in asymmetric coupled InGaN multiple quantum wells. Optics Express, 2017, 25, 24745.	1.7	11
21	Photoluminescence of InGaN-based red multiple quantum wells. Optics Express, 2021, 29, 30237.	1.7	11
22	Low threshold lasing of GaN-based vertical cavity surface emitting lasers with an asymmetric coupled quantum well active region. Applied Physics Letters, 2008, 93, 191118.	1.5	10
23	Direct generation of 2-ps blue pulses from gain-switched InGaN VCSEL assessed by up-conversion technique. Scientific Reports, 2015, 4, 6401.	1.6	10
24	Tunable InGaN quantum dot microcavity light emitters with 129nm tuning range from yellow-green to violet. Applied Physics Letters, 2017, 111, .	1.5	8
25	Green Vertical-Cavity Surface-Emitting Lasers Based on Combination of Blue-Emitting Quantum Wells and Cavity-Enhanced Recombination. IEEE Transactions on Electron Devices, 2018, 65, 4401-4406.	1.6	8
26	Leaky Wave Antenna Based on Periodically Truncated SSPP Waveguide. Plasmonics, 2020, 15, 551-558.	1.8	8
27	Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. IEEE Photonics Journal, 2020, 12, 1-8.	1.0	8
28	Optical properties of organic neodymium complex doped optical waveguides based on the intramolecular energy transfer effect. Optical Materials Express, 2020, 10, 2624.	1.6	7
29	Low-threshold wavelength-tunable ultraviolet vertical-cavity surface-emitting lasers from 376 to 409 nm. Fundamental Research, 2021, 1, 684-690.	1.6	7
30	Local Avalanche Effect of 4H-SiC p-i-n Ultraviolet Photodiodes With Periodic Micro-Hole Arrays. IEEE Electron Device Letters, 2022, 43, 64-67.	2.2	7
31	Low Threshold GaN-Based Microdisk Lasers on Silicon With High Q Factor. Journal of Lightwave Technology, 2022, 40, 2952-2958.	2.7	7
32	Emission dynamics of GaN-based blue resonant-cavity light-emitting diodes. Journal of Luminescence, 2019, 216, 116717.	1.5	6
33	Optical properties of InGaN-based red multiple quantum wells. Applied Physics Letters, 2022, 120, .	1.5	6
34	Impact of thickness of GaN buffer layer on properties of AlN/GaN distributed Bragg reflectors grown by metalorganic chemical vapor deposition. Science China Technological Sciences, 2010, 53, 313-316.	2.0	5
35	A Silicon-based On-chip Antenna Operating at 77GHz. , 2019, , .		5
36	Multiwavelength GaN-Based Surface-Emitting Lasers and Their Design Principles. Annalen Der Physik, 2020, 532, 1900308.	0.9	5

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37	Improvement of Thermal Dissipation of GaN-Based Micro Cavity Light-Emitting Devices. IEEE Photonics Technology Letters, 2021, 33, 19-22.	1.3	5
38	Simultaneous Analysis of Multi-Variables Effect on the Performance of Multi-Domain MFIS Negative Capacitance Field-Effect Transistors. IEEE Journal of the Electron Devices Society, 2021, 9, 741-747.	1.2	5
39	Optical Gain at 637 nm Wavelength in Polymer Waveguide Amplifier Under Commercial LED Pumping for Planar Photonic Integration. Advanced Optical Materials, 2022, 10, .	3.6	5
40	Effect of barrier thickness on photoelectric properties of InGaN/GaN asymmetric multiple-quantum-well structure light-emitting diode. AIP Advances, 2022, 12, .	0.6	5
41	Reduction of Lasing Threshold of GaN-Based Vertical-Cavity Surface-Emitting Lasers by Using Short Cavity Lengths. IEEE Transactions on Electron Devices, 2018, 65, 2504-2508.	1.6	4
42	Large Rabi splitting in InGaN quantum wells microcavity at room temperature. Materials Research Express, 2019, 6, 076204.	0.8	4
43	Photoassisted chemical smoothing of AlGaIn surface after laser lift-off. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, .	0.6	4
44	High Q factor Electrically Injected Green Micro Cavity. Journal of Lightwave Technology, 2021, 39, 2895-2901.	2.7	3
45	InGaIn-Based Orange-Red Resonant Cavity Light-Emitting Diodes. Journal of Lightwave Technology, 2022, 40, 4337-4343.	2.7	3
46	In-plane crystalline anisotropy of bulk $\hat{\Gamma}^2\text{-Ga}_{2/3}\text{O}_{3/3}$. Journal of Applied Crystallography, 2021, 54, 1153-1157.	1.9	2
47	Investigation of CsPbBr_3 CVD dynamics at various temperatures. Physical Chemistry Chemical Physics, 2021, 23, 23214-23218.	1.3	2
48	Effect of an inserted $\text{Al}_{2/3}\text{O}_{3/3}$ passivation layer for atomic layer deposited HfO_2 on indium phosphide. Semiconductor Science and Technology, 2021, 36, 125015.	1.0	2
49	Crystalline anisotropy of $\hat{\Gamma}^2\text{-Ga}_{2/3}\text{O}_{3/3}$ thin films on a c-plane GaN template and a sapphire substrate. Semiconductor Science and Technology, 2022, 37, 035003.	1.0	2
50	Thermal conductivity and phonon scattering of AlGaIn nanofilms by elastic theory and Boltzmann transport equation. Semiconductor Science and Technology, 2022, 37, 055003.	1.0	2
51	Enhanced Light Emission due to Formation of Semi-polar InGaIn/GaN Multi-quantum Wells. Nanoscale Research Letters, 2015, 10, 459.	3.1	1
52	Enhanced performances of vertical-structured green-band InGaIn/GaN multiple-quantum-well solar cells with aluminum reflectors. Journal of the Korean Physical Society, 2016, 68, 1291-1294.	0.3	1
53	Impact of carbon nanotube pattern layers on gallium nitride-based light emitting diodes. Semiconductor Science and Technology, 2020, 35, 115013.	1.0	1
54	Room temperature continuous wave lasing of GaN-based green vertical-cavity surface-emitting lasers. , 2019, , .		1

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55	Dual-wavelength switching in InGaN quantum dot micro-cavity light-emitting diodes. Optics Express, 2022, 30, 27472.	1.7	1
56	High-efficiency vertical-type InGaN/GaN multiple quantum well solar cells using aluminum reflectors. , 2016, , .		0
57	Resonant cavity enhanced InGaN/GaN multiple quantum well solar cells. , 2016, , .		0
58	Spoof surface plasmon polaritons characteristics of bandâ€stop slot resonators. Microwave and Optical Technology Letters, 0, , .	0.9	0
59	Mode tracking method based on information entropy prejudging mode swapping. AIP Advances, 2022, 12, 035334.	0.6	0
60	Realization of high-order modes on compact spoof surface plasmonic waveguide. , 2021, , .		0