

Zhang Baoping

List of Publications by Year in descending order

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60
papers

1,072
citations

516561

16
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434063

31
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61
all docs

61
docs citations

61
times ranked

1003
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in application of ultraviolet irradiation for biofilm control in water and wastewater infrastructure. Journal of Hazardous Materials, 2022, 421, 126682.	6.5	40
2	Crystalline anisotropy of $\hat{\Gamma}^2\text{-Ga}_{2\text{O}_3}$ thin films on a c-plane GaN template and a sapphire substrate. Semiconductor Science and Technology, 2022, 37, 035003.	1.0	2
3	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
4	Low Threshold GaN-Based Microdisk Lasers on Silicon With High Q Factor. Journal of Lightwave Technology, 2022, 40, 2952-2958.	2.7	7
5	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
6	InGaIn-Based Orange-Red Resonant Cavity Light-Emitting Diodes. Journal of Lightwave Technology, 2022, 40, 4337-4343.	2.7	3
7	Mode tracking method based on information entropy prejudging mode swapping. AIP Advances, 2022, 12, 035334.	0.6	0
8	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
9	Effect of barrier thickness on photoelectric properties of InGaIn/GaN asymmetric multiple-quantum-well structure light-emitting diode. AIP Advances, 2022, 12, .	0.6	5
10	Optical properties of InGaIn-based red multiple quantum wells. Applied Physics Letters, 2022, 120, .	1.5	6
11	Dual-wavelength switching in InGaIn quantum dot micro-cavity light-emitting diodes. Optics Express, 2022, 30, 27472.	1.7	1
12	Improvement of Thermal Dissipation of GaN-Based Micro Cavity Light-Emitting Devices. IEEE Photonics Technology Letters, 2021, 33, 19-22.	1.3	5
13	Electrically injected GaN-based microdisk towards an efficient whispering gallery mode laser. Optics Express, 2021, 29, 5598.	1.7	13
14	AlGaIn-Based Deep Ultraviolet Vertical-Cavity Surface-Emitting Laser. IEEE Electron Device Letters, 2021, 42, 375-378.	2.2	19
15	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
16	High Q factor Electrically Injected Green Micro Cavity. Journal of Lightwave Technology, 2021, 39, 2895-2901.	2.7	3
17	In-plane crystalline anisotropy of bulk $\hat{\Gamma}^2\text{-Ga}_{2\text{O}_3}$. Journal of Applied Crystallography, 2021, 54, 1153-1157.	1.9	2
18	Photoluminescence of InGaIn-based red multiple quantum wells. Optics Express, 2021, 29, 30237.	1.7	11

#	ARTICLE	IF	CITATIONS
19	Inorganic Lead-Free B ³⁺ -CsSn ₃ Perovskite Solar Cells Using Diverse Electron-Transporting Materials: A Simulation Study. ACS Omega, 2021, 6, 26689-26698.	1.6	24
20	Investigation of CsPbBr ₃ CVD dynamics at various temperatures. Physical Chemistry Chemical Physics, 2021, 23, 23214-23218.	1.3	2
21	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
22	Effect of an inserted Al ₂ O ₃ passivation layer for atomic layer deposited HfO ₂ on indium phosphide. Semiconductor Science and Technology, 2021, 36, 125015.	1.0	2
23	Low-threshold wavelength-tunable ultraviolet vertical-cavity surface-emitting lasers from 376 to 409 nm. Fundamental Research, 2021, 1, 684-690.	1.6	7
24	Realization of high-order modes on compact spoof surface plasmonic waveguide. , 2021, , .		0
25	Multiwavelength GaN-Based Surface-Emitting Lasers and Their Design Principles. Annalen Der Physik, 2020, 532, 1900308.	0.9	5
26	Efficacy of UVC-LED in water disinfection on Bacillus species with consideration of antibiotic resistance issue. Journal of Hazardous Materials, 2020, 386, 121968.	6.5	40
27	Leaky Wave Antenna Based on Periodically Truncated SSPP Waveguide. Plasmonics, 2020, 15, 551-558.	1.8	8
28	Photoassisted chemical smoothing of AlGaN surface after laser lift-off. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, .	0.6	4
29	Realization of Third-Order OAM Mode Using Ring Patch Antenna. IEEE Transactions on Antennas and Propagation, 2020, 68, 7607-7611.	3.1	20
30	Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. IEEE Photonics Journal, 2020, 12, 1-8.	1.0	8
31	Impact of carbon nanotube pattern layers on gallium nitride-based light emitting diodes. Semiconductor Science and Technology, 2020, 35, 115013.	1.0	1
32	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
33	Emission dynamics of GaN-based blue resonant-cavity light-emitting diodes. Journal of Luminescence, 2019, 216, 116717.	1.5	6
34	Large Rabi splitting in InGaN quantum wells microcavity at room temperature. Materials Research Express, 2019, 6, 076204.	0.8	4
35	Comparison of the performance of pulsed and continuous UVC-LED irradiation in the inactivation of bacteria. Water Research, 2019, 157, 218-227.	5.3	64
36	A Silicon-based On-chip Antenna Operating at 77GHz. , 2019, , .		5

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37	Room temperature continuous wave lasing of GaN-based green vertical-cavity surface-emitting lasers. , 2019, , .		1
38	Progress and prospects of GaN-based VCSEL from near UV to green emission. Progress in Quantum Electronics, 2018, 57, 1-19.	3.5	54
39	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
40	Effects of single and combined UV-LEDs on inactivation and subsequent reactivation of E.Âcoli in water disinfection. Water Research, 2018, 147, 331-341.	5.3	131
41	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
42	A comparative study of thermal characteristics of GaN-based VCSELs with three different typical structures. Semiconductor Science and Technology, 2018, 33, 015016.	1.0	24
43	Quantum dot vertical-cavity surface-emitting lasers covering the "green gap"™. Light: Science and Applications, 2017, 6, e16199-e16199.	7.7	92
44	High-efficiency All-Dielectric Metalenses for Mid-Infrared Imaging. Advanced Optical Materials, 2017, 5, 1700585.	3.6	75
45	Tunable InGaN quantum dot microcavity light emitters with 129-nm tuning range from yellow-green to violet. Applied Physics Letters, 2017, 111, .	1.5	8
46	Dynamics of carrier tunneling and recombination in asymmetric coupled InGaN multiple quantum wells. Optics Express, 2017, 25, 24745.	1.7	11
47	High-efficiency vertical-type InGaN/GaN multiple quantum well solar cells using aluminum reflectors. , 2016, , .		0
48	Resonant cavity enhanced InGaN/GaN multiple quantum well solar cells. , 2016, , .		0
49	Low threshold continuous-wave lasing of yellow-green InGaN-QD vertical-cavity surface-emitting lasers. Optics Express, 2016, 24, 15546.	1.7	57
50	Enhanced performances of vertical-structured green-band InGaN/GaN multiple-quantum-well solar cells with aluminum reflectors. Journal of the Korean Physical Society, 2016, 68, 1291-1294.	0.3	1
51	Enhanced Light Emission due to Formation of Semi-polar InGaN/GaN Multi-quantum Wells. Nanoscale Research Letters, 2015, 10, 459.	3.1	1
52	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
53	Strong localization effect and carrier relaxation dynamics in self-assembled InGaN quantum dots emitting in the green. Nanoscale Research Letters, 2015, 10, 31.	3.1	51
54	Room temperature continuous wave lasing of electrically injected GaN-based vertical cavity surface emitting lasers. Applied Physics Letters, 2014, 104, .	1.5	78

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55	Spectral dynamics of picosecond gain-switched pulses from nitride-based vertical-cavity surface-emitting lasers. Scientific Reports, 2014, 4, 4325.	1.6	25
56	Low Threshold Lasing of GaN-Based VCSELs With Sub-Nanometer Roughness Polishing. IEEE Photonics Technology Letters, 2013, 25, 2014-2017.	1.3	20
57	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
58	Efficient hole transport in asymmetric coupled InGaN multiple quantum wells. Applied Physics Letters, 2009, 95, .	1.5	51
59	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
60	Spoof surface plasmon polaritons characteristics of bandstop slot resonators. Microwave and Optical Technology Letters, 0, , .	0.9	0