

Zhaoyu Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,493
citations

471509

17
h-index

330143

37
g-index

60
all docs

60
docs citations

60
times ranked

1816
citing authors

#	ARTICLE	IF	CITATIONS
1	Single mode optofluidic distributed feedback dye laser. Optics Express, 2006, 14, 696.	3.4	335
2	Whispering Gallery Mode Lasing from Zinc Oxide Hexagonal Nanodisks. ACS Nano, 2010, 4, 3270-3276.	14.6	228
3	Mechanically tunable optofluidic distributed feedback dye laser. Optics Express, 2006, 14, 10494.	3.4	128
4	Epitaxial Growth of InGaN Nanowire Arrays for Light Emitting Diodes. ACS Nano, 2011, 5, 3970-3976.	14.6	118
5	Seed-assisted growth of high-quality multi-crystalline silicon in directional solidification. Journal of Crystal Growth, 2014, 386, 52-56.	1.5	87
6	Visible submicron microdisk lasers. Applied Physics Letters, 2007, 90, 111119.	3.3	76
7	Continuous-wave quantum dot photonic crystal lasers grown on on-axis Si (001). Nature Communications, 2020, 11, 977.	12.8	61
8	Nanoimprinted circular grating distributed feedback dye laser. Applied Physics Letters, 2007, 91, .	3.3	47
9	Hydrothermal synthesis of reduced graphene oxide-modified NiCo ₂ O ₄ nanowire arrays with enhanced reactivity for supercapacitors. Journal of Alloys and Compounds, 2019, 792, 474-480.	5.5	46
10	Optimization of the high-performance multi-crystalline silicon solidification process by insulation partition design using transient global simulations. Journal of Crystal Growth, 2015, 426, 110-116.	1.5	41
11	Tungsten-based highly selective solar absorber using simple nanodisk array. Optics Express, 2017, 25, A1072.	3.4	40
12	Ultra-low threshold InAs/GaAs quantum dot microdisk lasers on planar on-axis Si (001) substrates. Optica, 2019, 6, 430.	9.3	37
13	Coating effect on optical resonance of plasmonic nanobowtie antenna. Applied Physics Letters, 2010, 97, 063106.	3.3	35
14	Visible two-dimensional photonic crystal slab laser. Applied Physics Letters, 2006, 89, 071102.	3.3	27
15	Multiphotoluminescence from a Triphenylamine Derivative and Its Application in White Organic Light-Emitting Diodes Based on a Single Emissive Layer. Advanced Materials, 2019, 31, e1900613.	21.0	25
16	Upgrade of the hot zone for large-size high-performance multi-crystalline silicon ingot casting. Journal of Crystal Growth, 2016, 441, 58-63.	1.5	21
17	Temperature dependent geometry in perovskite microcrystals for whispering gallery and Fabry-Pérot mode lasing. Journal of Materials Chemistry C, 2019, 7, 4102-4108.	5.5	18
18	Microscale local strain gauges based on visible micro-disk lasers embedded in a flexible substrate. Optics Express, 2018, 26, 16797.	3.4	14

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19	Exciton-Polariton Properties in Planar Microcavity of Millimeter-Sized Two-Dimensional Perovskite Sheet. ACS Applied Materials & Interfaces, 2020, 12, 5081-5089.	8.0	14
20	Deep learning-based modeling of photonic crystal nanocavities. Optical Materials Express, 2021, 11, 2122.	3.0	11
21	Ultra-thin curved visible microdisk lasers with three-dimensional whispering gallery modes. Nanophotonics, 2020, 9, 2997-3002.	6.0	10
22	Absorption enhancement of thin film solar cells using back binary metallic grating. Optical and Quantum Electronics, 2014, 46, 1365-1372.	3.3	8
23	Optofluidic Microring Dye Laser. LEOS Summer Topical Meeting, 2007, , .	0.0	7
24	Cantilever-based microring lasers embedded in a deformable substrate for local strain gauges. AIP Advances, 2018, 8, .	1.3	7
25	Continuous wave operation of GaAsBi microdisk lasers at room temperature with large wavelengths ranging from 127 to 141 μ m. Photonics Research, 2019, 7, 508.	7.0	6
26	Smart and Rapid Design of Nanophotonic Structures by an Adaptive and Regularized Deep Neural Network. Nanomaterials, 2022, 12, 1372.	4.1	6
27	A simple method to improve the performance of perovskite light-emitting diodes via layer-by-layer spin-coating CsPbBr ₃ quantum dots. RSC Advances, 2018, 8, 27201-27206.	3.6	5
28	Electro-remediation of tailings from a multi-metal sulphide mine: comparing removal efficiencies of Pb, Zn, Cu and Cd. Chemistry and Ecology, 2019, 35, 54-68.	1.6	5
29	Bowtie nanoantennas with symmetry breaking. Journal of Nanophotonics, 2014, 9, 093798.	1.0	4
30	Near-perfect absorber of infrared radiation based on Au nanorod arrays. Journal of Nanophotonics, 2017, 11, 016018.	1.0	4
31	Proposal and numerical study of a flexible visible photonic crystal defect cavity for nanoscale strain sensors. Optics Express, 2017, 25, 23645.	3.4	4
32	Single-Mode Photonic Crystal Nanobeam Lasers Monolithically Grown on Si for Dense Integration. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-6.	2.9	4
33	Triangle defects in bowtie nanoantennas. Applied Physics A: Materials Science and Processing, 2013, 112, 591-596.	2.3	3
34	Influence of germanium doping on the performance of high-performance multi-crystalline silicon. Journal of Crystal Growth, 2015, 416, 57-61.	1.5	3
35	Broadband absorption enhancement in ultrathin-film solar cells by combining dielectric nanogratings and metallic nanoribbons. Journal of Nanophotonics, 2015, 9, 093596.	1.0	2
36	Cantilever-based freestanding InGaP/InGaAlP quantum wells microring lasers. Applied Physics Letters, 2019, 114, 071103.	3.3	2

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37	Polarization insensitive perfect absorber with nanorod arrays. , 2014, , .		1
38	Further absorption enhancement in ultra-thin solar cells structured with multiple-level grating. Optical and Quantum Electronics, 2015, 47, 1519-1526.	3.3	1
39	EA-Directing Formamidinium-Based Perovskite Microwires with A-Site Doping. ACS Omega, 2021, 6, 7157-7164.	3.5	1
40	Two-dimensional fivefold photonic crystal microcavity. Journal of Nanophotonics, 2017, 11, 1.	1.0	1
41	Optofluidic distributed feedback dye laser. , 2006, , .		0
42	Mechanically Tunable Optofluidic Distributed Feedback Dye Laser. , 0, , .		0
43	Visible 2-dimentional Photonic Crystal Laser. , 2007, , .		0
44	Visible 2-dimentional photonic crystal laser. , 2007, , .		0
45	Absorption enhancement of a-Si thin film solar cells through surface plasmon polaritons and cavity resonance. , 2013, , .		0
46	Shape-induced effect on c-Si thin film solar cell efficiency. , 2014, , .		0
47	Hybrid plasmonic ring resonator at subwavelength scale in the visible spectrum. Journal of Nanophotonics, 2014, 8, 083990.	1.0	0
48	Double grating antireflection nanostructure based on nano-cone. , 2014, , .		0
49	Characteristic analysis and comparison of two kinds of hybrid plasmonic annular resonators. Journal of Nanophotonics, 2017, 11, 026006.	1.0	0
50	Characteristic analysis and comparison of two kinds of hybrid plasmonic annular resonators. , 2017, , .		0
51	Flexible visible photonic crystal laser. , 2017, , .		0
52	Two-dimensional fivefold photonic crystal micro-cavity. , 2017, , .		0
53	Flexible visible photonic crystal laser cavity. , 2017, , .		0
54	Cantilever-Based Microring Lasers. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Microcavity lasers directly grown on silicon. , 2021, , .		0
56	Coupled optical and electrical numerical simulation for dual interface line grating Si thin film solar cells. , 2015, , .		0
57	Flexible Hybrid Microdisk Cavity for Lasing. , 2017, , .		0
58	Cantilever-based microring lasers embedded in a flexible substrate for strain and index gauges. , 2018, , .		0
59	Photonic crystal lasers grown on CMOS-compatible on-axis Si(001). , 2020, , .		0
60	Various microcavity lasers monolithically grown on planar on-axis Si (001) substrates. , 2021, , .		0