Weidong Zhou

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/6520826/weidong-zhou-publications-by-year.pdf
Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81 papers	2,417 citations	25 h-index	48 g-index
133 ext. papers	2,944 ext. citations	5.7 avg, IF	4.73 L-index

#	Paper	IF	Citations
81	Scaling Challenges in High Power Photonic Crystal Surface-Emitting Lasers. *IEEE Journal of Quantum Electronics*, **2022**, 1-1	2	1
80	Complete 2π phase control by photonic crystal slabs. *Optics Express*, **2021**, 29, 40795	3.3	2
79	Hybrid Integrated Photonic Platforms: feature issue introduction. *Optical Materials Express*, **2021**, 11, 4095	2.6	
78	Controllable finite ultra-narrow quality-factor peak in a perturbed Dirac-cone band structure of a photonic-crystal slab. *Applied Physics Letters*, **2021**, 119, 031105	3.4	4
77	Buried InP/Airhole Photonic-Crystal Surface-Emitting Lasers. *Physica Status Solidi (A) Applications and Materials Science*, **2021**, 218, 2000416	1.6	5
76	Design of GaN-Based PCSEL With Temperature-Insensitive Lasing Wavelength. *IEEE Photonics Journal*, **2021**, 13, 1-6	1.8	1
75	Structural Stability of Bilayer MoS2 in Ambient Air. *Advanced Materials Interfaces*, **2021**, 8, 2101188	4.6	0
74	A Portable Micro-Gas Chromatography with Integrated Photonic Crystal Slab Sensors on Chip. *Biosensors*, **2021**, 11,	5.9	5
73	Bioresorbable Multilayer Photonic Cavities as Temporary Implants for Tether-Free Measurements of Regional Tissue Temperatures. *BME Frontiers*, **2021**, 2021, 1-14	4.4	2
72	Microcavity-coupled emitters in hexagonal boron nitride. *Nanophotonics*, **2020**, 9, 2937-2944	6.3	19
71	Buried-Tunnel Junction Current Injection for InP-Based Nanomembrane Photonic Crystal Surface Emitting Lasers on Silicon. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 1900527	1.6	1
70	Influences of screw dislocations on electroluminescence of AlGaN/AlN-based UVC LEDs. *AIP Advances*, **2019**, 9, 085128	1.5	8
69	On-Chip Photonic Crystal Surface-Emitting Membrane Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2019**, 25, 1-11	3.8	7
68	Optofluidic vapor sensing with free-space coupled 2D photonic crystal slabs. *Scientific Reports*, **2019**, 9, 4209	4.9	18
67	Bioresorbable photonic devices for the spectroscopic characterization of physiological status and neural activity. *Nature Biomedical Engineering*, **2019**, 3, 644-654	19	58
66	Flexible Photodetectors with Nanomembranes and Nanowires **2019**, 79-116		0
65	Bioresorbable optical sensor systems for monitoring of intracranial pressure and temperature. *Science Advances*, **2019**, 5, eaaw1899	14.3	85

64	Integrated Bioresorbable Optical Sensor Systems for Biomedical Pressure and Temperature Monitoring **2019**,		1
63	229 nm UV LEDs on aluminum nitride single crystal substrates using p-type silicon for increased hole injection. *Applied Physics Letters*, **2018**, 112, 081101	3.4	33
62	Low index contrast heterostructure photonic crystal cavities with high quality factors and vertical radiation coupling. *Applied Physics Letters*, **2018**, 112, 141105	3.4	7
61	AlGaAs/Si dual-junction tandem solar cells by epitaxial lift-off and print-transfer-assisted direct bonding. *Energy Science and Engineering*, **2018**, 6, 47-55	3.4	9
60	Size Scaling of Photonic Crystal Surface Emitting Lasers on Silicon Substrates. *IEEE Photonics Journal*, **2018**, 10, 1-6	1.8	3
59	First-principles simulation of photonic crystal surface-emitting lasers using rigorous coupled wave analysis. *Applied Physics Letters*, **2018**, 113, 041106	3.4	14
58	226 nm AlGaN/AlN UV LEDs using p-type Si for hole injection and UV reflection. *Applied Physics Letters*, **2018**, 113, 011111	3.4	40
57	Optical Waveguides: Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon (Adv. Mater. 32/2018). *Advanced Materials*, **2018**, 30, 1870239	24	1
56	Nanoscale groove textured □Ga2O3 by room temperature inverse metal-assisted chemical etching and photodiodes with enhanced responsivity. *Applied Physics Letters*, **2018**, 113, 222104	3.4	27
55	Enhanced Performance of Ge Photodiodes via Monolithic Antireflection Texturing and □Ge Self-Passivation by Inverse Metal-Assisted Chemical Etching. *ACS Nano*, **2018**, 12, 6748-6755	16.7	32
54	Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon. *Advanced Materials*, **2018**, 30, e1801584	24	36
53	Design of a portable imager for near-infrared visualization of cutaneous wounds. *Journal of Biomedical Optics*, **2017**, 22, 16010	3.5	10
52	Coupled Bilayer Photonic Crystal Slab Electro-Optic Spatial Light Modulators. *IEEE Photonics Journal*, **2017**, 9, 1-11	1.8	4
51	Band-Bending of Ga-Polar GaN Interfaced with AlO through Ultraviolet/Ozone Treatment. *ACS Applied Materials & Interfaces*, **2017**, 9, 17576-17585	9.5	18
50	Transferrable single crystalline 4H-SiC nanomembranes. *Journal of Materials Chemistry C*, **2017**, 5, 264-268	7.1	26
49	High-performance flexible BiCMOS electronics based on single-crystal Si nanomembrane. *Npj Flexible Electronics*, **2017**, 1,	10.7	25
48	Sharpened VO Phase Transition via Controlled Release of Epitaxial Strain. *Nano Letters*, **2017**, 17, 5614-5619	11.5	60
47	Origami silicon optoelectronics for hemispherical electronic eye systems. *Nature Communications*, **2017**, 8, 1782	17.4	119

46	Photonic crystal bandedge membrane lasers on silicon. *Applied Optics*, **2017**, 56, H67-H73	1.7	10
45	High quality factor photonic crystal filter at k 0 and its application for refractive index sensing. *Optics Express*, **2017**, 25, 10536-10545	3.3	36
44	Optical Refractive Index Sensing Based on High-Q Bound States in the Continuum in Free-Space Coupled Photonic Crystal Slabs. *Sensors*, **2017**, 17,	3.8	61
43	High-Speed, Flexible Electronics by Use of Si Nanomembranes **2016**, 113-142		1
42	Semiconductor Nanomembranes for Fano Resonance Photonic Crystal Devices **2016**, 271-304		1
41	Printed Large-Area Single-Mode Photonic Crystal Bandedge Surface-Emitting Lasers on Silicon. *Scientific Reports*, **2016**, 6, 18860	4.9	23
40	Fast Flexible Transistors with a Nanotrench Structure. *Scientific Reports*, **2016**, 6, 24771	4.9	25
39	Semiconductor Nanomembrane-Based Light-Emitting and Photodetecting Devices. *Photonics*, **2016**, 3, 40	2.2	5
38	Large area MoS2 van der Waals epitaxy on III-Ns and the epitaxial formation of a n-MoS2/p-InGaN diode **2016**,		1
37	Flexible Phototransistors Based on Single-Crystalline Silicon Nanomembranes. *Advanced Optical Materials*, **2016**, 4, 120-125	8.1	65
36	Transferred Flexible Three-Color Silicon Membrane Photodetector Arrays. *IEEE Photonics Journal*, **2015**, 7, 1-6	1.8	12
35	Transfer Printed Nanomembranes for Heterogeneously Integrated Membrane Photonics. *Photonics* , **2015**, 2, 1081-1100	2.2	10
34	High-performance green flexible electronics based on biodegradable cellulose nanofibril paper. *Nature Communications*, **2015**, 6, 7170	17.4	539
33	AlGaAs/Si dual-junction tandem solar cells fabricated by epitaxial lift-off and print transfer-assisted bonding **2015**,		2
32	Progress in 2D photonic crystal Fano resonance photonics. *Progress in Quantum Electronics*, **2014**, 38, 1-74	9.1	165
31	Flexible three-color silicon membrane photodetector arrays **2014**,		1
30	Tuning the Refractive Index of Homopolymer Blends by Controlling Nanoscale Domain Size via RIR-MAPLE Deposition. *Macromolecular Chemistry and Physics*, **2013**, 214, 2643-2650	2.6	15
29	RF Characterization of Gigahertz Flexible Silicon Thin-Film Transistor on Plastic Substrates Under Bending Conditions. *IEEE Electron Device Letters*, **2013**, 34, 262-264	4.4	32

28	Coupled double-layer Fano resonance photonic crystal filters with lattice-displacement. *Applied Physics Letters*, **2013**, 103, 241106	3.4	43
27	Polarization- and angle-dependent characteristics in two dimensional photonic crystal membrane reflectors. *Applied Physics Letters*, **2013**, 103, 211107	3.4	10
26	Photonic crystal membrane reflectors by magnetic field-guided metal-assisted chemical etching. *Applied Physics Letters*, **2013**, 103, 214103	3.4	28
25	Large-Area Printed Broadband Membrane Reflectors by Laser Interference Lithography. *IEEE Photonics Journal*, **2013**, 5, 2200106-2200106	1.8	25
24	Fano-Resonance Photonic Crystal Membrane Reflectors at Mid- and Far-Infrared. *IEEE Photonics Journal*, **2013**, 5, 4700206-4700206	1.8	10
23	Breakthroughs in Photonics 2012: Breakthroughs in Nanomembranes and Nanomembrane Lasers. *IEEE Photonics Journal*, **2013**, 5, 0700707-0700707	1.8	13
22	Double-layer Fano resonance photonic crystal filters. *Optics Express*, **2013**, 21, 24582-9	3.3	53
21	A Multifunction Heterojunction Formed Between Pentacene and a Single-Crystal Silicon Nanomembrane. *Advanced Functional Materials*, **2013**, 23, 3398-3403	15.6	20
20	Experimental and numerical study of highly sensitive displacement sensors based on photonic crystals at microwave band. *Microwave and Optical Technology Letters*, **2012**, 54, 432-434	1.2	4
19	Semiconductor nanomembranes for integrated silicon photonics and flexible Photonics. *Optical and Quantum Electronics*, **2012**, 44, 605-611	2.4	12
18	Broadband Membrane Reflectors on Glass. *IEEE Photonics Technology Letters*, **2012**, 24, 476-478	2.2	18
17	Transfer-printed stacked nanomembrane lasers on silicon. *Nature Photonics*, **2012**, 6, 615-620	33.9	147
16	Design of an Angle Detector for Laser Beams Based on Grating Coupling. *Micromachines*, **2012**, 3, 36-44	3.3	2
15	RIR-MAPLE deposition of conjugated polymers for application to optoelectronic devices. *Applied Physics A: Materials Science and Processing*, **2011**, 105, 555-563	2.6	27
14	Semiconductor nanomembranes for integrated and flexible photonics **2011**,		1
13	Transferrable single-crystal silicon nanomembranes and their application to flexible microwave systems. *Journal of Information Display*, **2011**, 12, 109-113	4.1	3
12	Flexible high-frequency microwave inductors and capacitors integrated on a polyethylene terephthalate substrate. *Applied Physics Letters*, **2010**, 96, 013509	3.4	62
11	Large-area InP-based crystalline nanomembrane flexible photodetectors. *Applied Physics Letters*, **2010**, 96, 121107	3.4	52

10	Flexible crystalline InP nanomembrane LED arrays **2010**,		1
9	Design of Fano Broadband Reflectors on SOI. *IEEE Photonics Technology Letters*, **2010**, 22, 1108-1110	2.2	17
8	Field penetrations in photonic crystal Fano reflectors. *Optics Express*, **2010**, 18, 14152-8	3.3	18
7	Colloidal quantum dot absorption enhancement in flexible Fano filters. *Applied Physics Letters*, **2010**, 96, 083111	3.4	12
6	Solution-processed omnidirectional antireflection coatings on amorphous silicon solar cells. *Journal of Applied Physics*, **2009**, 105, 103501	2.5	20
5	Crystalline silicon nanomembrane stacking for large-area flexible photodetectors **2009**,		1
4	Resonance control of membrane reflectors with effective index engineering. *Applied Physics Letters* , **2009**, 95, 023110	3.4	21
3	Flexible photonic-crystal Fano filters based on transferred semiconductor nanomembranes. *Journal Physics D: Applied Physics*, **2009**, 42, 234007	3	49
2	Fano filters based on transferred silicon nanomembranes on plastic substrates. *Applied Physics Letters*, **2008**, 93, 061106	3.4	54
1	Optical Add-Drop Filter Design Based on Photonic Crystal Ring Resonators **2007**,		1