

Weidong Zhou

List of Publications by Citations

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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	High-performance green flexible electronics based on biodegradable cellulose nanofibril paper. <i>Nature Communications</i> , 2015 , 6, 7170	17.4	539
80	Progress in 2D photonic crystal Fano resonance photonics. <i>Progress in Quantum Electronics</i> , 2014 , 38, 1-74	9.1	165
79	Transfer-printed stacked nanomembrane lasers on silicon. <i>Nature Photonics</i> , 2012 , 6, 615-620	33.9	147
78	Origami silicon optoelectronics for hemispherical electronic eye systems. <i>Nature Communications</i> , 2017 , 8, 1782	17.4	119
77	Bioresorbable optical sensor systems for monitoring of intracranial pressure and temperature. <i>Science Advances</i> , 2019 , 5, eaaw1899	14.3	85
76	Flexible Phototransistors Based on Single-Crystalline Silicon Nanomembranes. <i>Advanced Optical Materials</i> , 2016 , 4, 120-125	8.1	65
75	Flexible high-frequency microwave inductors and capacitors integrated on a polyethylene terephthalate substrate. <i>Applied Physics Letters</i> , 2010 , 96, 013509	3.4	62
74	Optical Refractive Index Sensing Based on High-Q Bound States in the Continuum in Free-Space Coupled Photonic Crystal Slabs. <i>Sensors</i> , 2017 , 17,	3.8	61
73	Sharpened VO Phase Transition via Controlled Release of Epitaxial Strain. <i>Nano Letters</i> , 2017 , 17, 5614-5619	6.9	60
72	Bioresorbable photonic devices for the spectroscopic characterization of physiological status and neural activity. <i>Nature Biomedical Engineering</i> , 2019 , 3, 644-654	19	58
71	Fano filters based on transferred silicon nanomembranes on plastic substrates. <i>Applied Physics Letters</i> , 2008 , 93, 061106	3.4	54
70	Double-layer Fano resonance photonic crystal filters. <i>Optics Express</i> , 2013 , 21, 24582-9	3.3	53
69	Large-area InP-based crystalline nanomembrane flexible photodetectors. <i>Applied Physics Letters</i> , 2010 , 96, 121107	3.4	52
68	Flexible photonic-crystal Fano filters based on transferred semiconductor nanomembranes. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 234007	3	49
67	Coupled double-layer Fano resonance photonic crystal filters with lattice-displacement. <i>Applied Physics Letters</i> , 2013 , 103, 241106	3.4	43
66	226 nm AlGaIn/AlN UV LEDs using p-type Si for hole injection and UV reflection. <i>Applied Physics Letters</i> , 2018 , 113, 011111	3.4	40
65	High quality factor photonic crystal filter at k 0 and its application for refractive index sensing. <i>Optics Express</i> , 2017 , 25, 10536-10545	3.3	36

64	Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon. <i>Advanced Materials</i> , 2018 , 30, e1801584	24	36
63	229 nm UV LEDs on aluminum nitride single crystal substrates using p-type silicon for increased hole injection. <i>Applied Physics Letters</i> , 2018 , 112, 081101	3.4	33
62	RF Characterization of Gigahertz Flexible Silicon Thin-Film Transistor on Plastic Substrates Under Bending Conditions. <i>IEEE Electron Device Letters</i> , 2013 , 34, 262-264	4.4	32
61	Enhanced Performance of Ge Photodiodes via Monolithic Antireflection Texturing and EGe Self-Passivation by Inverse Metal-Assisted Chemical Etching. <i>ACS Nano</i> , 2018 , 12, 6748-6755	16.7	32
60	Photonic crystal membrane reflectors by magnetic field-guided metal-assisted chemical etching. <i>Applied Physics Letters</i> , 2013 , 103, 214103	3.4	28
59	RIR-MAPLE deposition of conjugated polymers for application to optoelectronic devices. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 105, 555-563	2.6	27
58	Nanoscale groove textured EGe ₂ O ₃ by room temperature inverse metal-assisted chemical etching and photodiodes with enhanced responsivity. <i>Applied Physics Letters</i> , 2018 , 113, 222104	3.4	27
57	Transferrable single crystalline 4H-SiC nanomembranes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 264-268	1	26
56	High-performance flexible BiCMOS electronics based on single-crystal Si nanomembrane. <i>Npj Flexible Electronics</i> , 2017 , 1,	10.7	25
55	Fast Flexible Transistors with a Nanotrench Structure. <i>Scientific Reports</i> , 2016 , 6, 24771	4.9	25
54	Large-Area Printed Broadband Membrane Reflectors by Laser Interference Lithography. <i>IEEE Photonics Journal</i> , 2013 , 5, 2200106-2200106	1.8	25
53	Printed Large-Area Single-Mode Photonic Crystal Bandedge Surface-Emitting Lasers on Silicon. <i>Scientific Reports</i> , 2016 , 6, 18860	4.9	23
52	Resonance control of membrane reflectors with effective index engineering. <i>Applied Physics Letters</i> , 2009 , 95, 023110	3.4	21
51	A Multifunction Heterojunction Formed Between Pentacene and a Single-Crystal Silicon Nanomembrane. <i>Advanced Functional Materials</i> , 2013 , 23, 3398-3403	15.6	20
50	Solution-processed omnidirectional antireflection coatings on amorphous silicon solar cells. <i>Journal of Applied Physics</i> , 2009 , 105, 103501	2.5	20
49	Microcavity-coupled emitters in hexagonal boron nitride. <i>Nanophotonics</i> , 2020 , 9, 2937-2944	6.3	19
48	Band-Bending of Ga-Polar GaN Interfaced with AlO through Ultraviolet/Ozone Treatment. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17576-17585	9.5	18
47	Optofluidic vapor sensing with free-space coupled 2D photonic crystal slabs. <i>Scientific Reports</i> , 2019 , 9, 4209	4.9	18

46	Broadband Membrane Reflectors on Glass. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 476-478	2.2	18
45	Field penetrations in photonic crystal Fano reflectors. <i>Optics Express</i> , 2010 , 18, 14152-8	3.3	18
44	Design of Fano Broadband Reflectors on SOI. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1108-1110	2.2	17
43	Tuning the Refractive Index of Homopolymer Blends by Controlling Nanoscale Domain Size via RIR-MAPLE Deposition. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 2643-2650	2.6	15
42	First-principles simulation of photonic crystal surface-emitting lasers using rigorous coupled wave analysis. <i>Applied Physics Letters</i> , 2018 , 113, 041106	3.4	14
41	Breakthroughs in Photonics 2012: Breakthroughs in Nanomembranes and Nanomembrane Lasers. <i>IEEE Photonics Journal</i> , 2013 , 5, 0700707-0700707	1.8	13
40	Transferred Flexible Three-Color Silicon Membrane Photodetector Arrays. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-6	1.8	12
39	Semiconductor nanomembranes for integrated silicon photonics and flexible Photonics. <i>Optical and Quantum Electronics</i> , 2012 , 44, 605-611	2.4	12
38	Colloidal quantum dot absorption enhancement in flexible Fano filters. <i>Applied Physics Letters</i> , 2010 , 96, 083111	3.4	12
37	Design of a portable imager for near-infrared visualization of cutaneous wounds. <i>Journal of Biomedical Optics</i> , 2017 , 22, 16010	3.5	10
36	Photonic crystal bandedge membrane lasers on silicon. <i>Applied Optics</i> , 2017 , 56, H67-H73	1.7	10
35	Transfer Printed Nanomembranes for Heterogeneously Integrated Membrane Photonics. <i>Photonics</i> , 2015 , 2, 1081-1100	2.2	10
34	Polarization- and angle-dependent characteristics in two dimensional photonic crystal membrane reflectors. <i>Applied Physics Letters</i> , 2013 , 103, 211107	3.4	10
33	Fano-Resonance Photonic Crystal Membrane Reflectors at Mid- and Far-Infrared. <i>IEEE Photonics Journal</i> , 2013 , 5, 4700206-4700206	1.8	10
32	AlGaAs/Si dual-junction tandem solar cells by epitaxial lift-off and print-transfer-assisted direct bonding. <i>Energy Science and Engineering</i> , 2018 , 6, 47-55	3.4	9
31	Influences of screw dislocations on electroluminescence of AlGaN/AlN-based UVC LEDs. <i>AIP Advances</i> , 2019 , 9, 085128	1.5	8
30	On-Chip Photonic Crystal Surface-Emitting Membrane Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-11	3.8	7
29	Low index contrast heterostructure photonic crystal cavities with high quality factors and vertical radiation coupling. <i>Applied Physics Letters</i> , 2018 , 112, 141105	3.4	7

28	Semiconductor Nanomembrane-Based Light-Emitting and Photodetecting Devices. <i>Photonics</i> , 2016 , 3, 40	2.2	5
27	Buried InP/Airhole Photonic-Crystal Surface-Emitting Lasers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000416	1.6	5
26	A Portable Micro-Gas Chromatography with Integrated Photonic Crystal Slab Sensors on Chip. <i>Biosensors</i> , 2021 , 11,	5.9	5
25	Coupled Bilayer Photonic Crystal Slab Electro-Optic Spatial Light Modulators. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-11	1.8	4
24	Experimental and numerical study of highly sensitive displacement sensors based on photonic crystals at microwave band. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 432-434	1.2	4
23	Controllable finite ultra-narrow quality-factor peak in a perturbed Dirac-cone band structure of a photonic-crystal slab. <i>Applied Physics Letters</i> , 2021 , 119, 031105	3.4	4
22	Size Scaling of Photonic Crystal Surface Emitting Lasers on Silicon Substrates. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-6	1.8	3
21	Transferrable single-crystal silicon nanomembranes and their application to flexible microwave systems. <i>Journal of Information Display</i> , 2011 , 12, 109-113	4.1	3
20	AlGaAs/Si dual-junction tandem solar cells fabricated by epitaxial lift-off and print transfer-assisted bonding 2015 ,		2
19	Design of an Angle Detector for Laser Beams Based on Grating Coupling. <i>Micromachines</i> , 2012 , 3, 36-44	3.3	2
18	Complete 2π phase control by photonic crystal slabs. <i>Optics Express</i> , 2021 , 29, 40795	3.3	2
17	Bioresorbable Multilayer Photonic Cavities as Temporary Implants for Tether-Free Measurements of Regional Tissue Temperatures. <i>BME Frontiers</i> , 2021 , 2021, 1-14	4.4	2
16	High-Speed, Flexible Electronics by Use of Si Nanomembranes 2016 , 113-142		1
15	Semiconductor Nanomembranes for Fano Resonance Photonic Crystal Devices 2016 , 271-304		1
14	Optical Waveguides: Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon (Adv. Mater. 32/2018). <i>Advanced Materials</i> , 2018 , 30, 1870239	2.4	1
13	Flexible three-color silicon membrane photodetector arrays 2014 ,		1
12	Flexible crystalline InP nanomembrane LED arrays 2010 ,		1
11	Crystalline silicon nanomembrane stacking for large-area flexible photodetectors 2009 ,		1

10	Semiconductor nanomembranes for integrated and flexible photonics 2011 ,		1
9	Optical Add-Drop Filter Design Based on Photonic Crystal Ring Resonators 2007 ,		1
8	Large area MoS ₂ van der Waals epitaxy on III-Ns and the epitaxial formation of a n-MoS ₂ /p-InGaN diode 2016 ,		1
7	Integrated Bioresorbable Optical Sensor Systems for Biomedical Pressure and Temperature Monitoring 2019 ,		1
6	Buried-Tunnel Junction Current Injection for InP-Based Nanomembrane Photonic Crystal Surface Emitting Lasers on Silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900527 ^{1.6}		1
5	Design of GaN-Based PCSEL With Temperature-Insensitive Lasing Wavelength. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-6	1.8	1
4	Scaling Challenges in High Power Photonic Crystal Surface-Emitting Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2022 , 1-1	2	1
3	Flexible Photodetectors with Nanomembranes and Nanowires 2019 , 79-116		0
2	Structural Stability of Bilayer MoS ₂ in Ambient Air. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101188	4.6	0
1	Hybrid Integrated Photonic Platforms: feature issue introduction. <i>Optical Materials Express</i> , 2021 , 11, 4095	2.6	