

Timothy J Karle

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.

47
papers

1,744
citations

22
h-index

41
g-index

75
ext. papers

2,061
ext. citations

5.4
avg, IF

3.97
L-index

#	Paper	IF	Citations
47	Real-space observation of ultraslow light in photonic crystal waveguides. <i>Physical Review Letters</i> , 2005 , 94, 073903	7.4	337
46	Electronic properties and metrology applications of the diamond NV- center under pressure. <i>Physical Review Letters</i> , 2014 , 112, 047601	7.4	208
45	Single-photon emitting diode in silicon carbide. <i>Nature Communications</i> , 2015 , 6, 7783	17.4	129
44	Single-photon emission and quantum characterization of zinc oxide defects. <i>Nano Letters</i> , 2012 , 12, 949-515	5.5	100
43	Hybrid III-V semiconductor/silicon nanolaser. <i>Optics Express</i> , 2011 , 19, 9221-31	3.3	77
42	Superprism phenomena in planar photonic crystals. <i>IEEE Journal of Quantum Electronics</i> , 2002 , 38, 915-918	18	77
41	Direct observation of Bloch harmonics and negative phase velocity in photonic crystal waveguides. <i>Physical Review Letters</i> , 2005 , 94, 123901	7.4	67
40	Coupled photonic crystal heterostructure nanocavities. <i>Optics Express</i> , 2007 , 15, 1228-33	3.3	62
39	Observation of pulse compression in photonic Crystal coupled cavity waveguides. <i>Journal of Lightwave Technology</i> , 2004 , 22, 514-519	4	52
38	Low-loss photonic crystal defect waveguides in InP. <i>Applied Physics Letters</i> , 2004 , 84, 3588-3590	3.4	41
37	Depletion of nitrogen-vacancy color centers in diamond via hydrogen passivation. <i>Applied Physics Letters</i> , 2012 , 100, 071902	3.4	39
36	Efficient photonic crystal Y-junctions. <i>Journal of Optics</i> , 2003 , 5, S76-S80		39
35	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2002 , 8, 909-918	3.8	38
34	Continuous-wave operation of photonic band-edge laser near 1.55 microm on silicon wafer. <i>Optics Express</i> , 2007 , 15, 7551-6	3.3	36
33	Lifetime Reduction and Enhanced Emission of Single Photon Color Centers in Nanodiamond via Surrounding Refractive Index Modification. <i>Scientific Reports</i> , 2015 , 5, 11179	4.9	32
32	Heterogeneous integration and precise alignment of InP-based photonic crystal lasers to complementary metal-oxide semiconductor fabricated silicon-on-insulator wire waveguides. <i>Journal of Applied Physics</i> , 2010 , 107, 063103	2.5	31
31	Development of a templated approach to fabricate diamond patterns on various substrates. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8894-902	9.5	28

30	Integration of Single-Photon Emitters into 3C-SiC Microdisk Resonators. <i>ACS Photonics</i> , 2017 , 4, 462-468	6.3	27
29	Near-surface spectrally stable nitrogen vacancy centres engineered in single crystal diamond. <i>Advanced Materials</i> , 2012 , 24, 3333-8	2.4	24
28	Optimizing H1 cavities for the generation of entangled photon pairs. <i>New Journal of Physics</i> , 2009 , 11, 033022	2.9	23
27	Thermo-optical dynamics in an optically pumped Photonic Crystal nano-cavity. <i>Optics Express</i> , 2009 , 17, 17118-29	3.3	23
26	Local probing of Bloch mode dispersion in a photonic crystal waveguide. <i>Optics Express</i> , 2005 , 13, 4457-64	3.3	22
25	Time-domain mapping of nonlinear pulse propagation in photonic-crystal slow-light waveguides. <i>Physical Review A</i> , 2013 , 87,	2.6	21
24	Dynamics of band-edge photonic crystal lasers. <i>Optics Express</i> , 2009 , 17, 3165-72	3.3	19
23	Experimental verification of numerically optimized photonic crystal injector, Y-splitter, and bend. <i>IEEE Journal on Selected Areas in Communications</i> , 2005 , 23, 1390-1395	14.2	19
22	III-V photonic crystal wire cavity laser on silicon wafer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 2146	1.7	17
21	Hybrid InP-based photonic crystal lasers on silicon on insulator wires. <i>Applied Physics Letters</i> , 2009 , 95, 201119	3.4	17
20	Broadband and robust optical waveguide devices using coherent tunnelling adiabatic passage. <i>Optics Express</i> , 2012 , 20, 23108-16	3.3	17
19	Uniformity of the lasing wavelength of heterogeneously integrated InP microdisk lasers on SOI. <i>Optics Express</i> , 2013 , 21, 10622-31	3.3	15
18	Diamond encapsulated photovoltaics for transdermal power delivery. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 589-97	11.8	14
17	Room-temperature single-photon emission from zinc oxide nanoparticle defects and their in vitro photostable intrinsic fluorescence. <i>Nanophotonics</i> , 2017 , 6, 269-278	6.3	14
16	Radiation patterns from coupled photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2011 , 99, 111101	3.4	13
15	Biocompatible and Biodegradable Magnesium Oxide Nanoparticles with In Vitro Photostable Near-Infrared Emission: Short-Term Fluorescent Markers. <i>Nanomaterials</i> , 2019 , 9,	5.4	12
14	Ultra-high-density 3D DNA arrays within nanoporous biocompatible membranes for single-molecule-level detection and purification of circulating nucleic acids. <i>Nanoscale</i> , 2015 , 7, 5998-6006	7.7	12
13	Very bright, near-infrared single photon emitters in diamond. <i>APL Materials</i> , 2013 , 1, 032120	5.7	10

12	Neurons Specifically Activated by Fear Learning in Lateral Amygdala Display Increased Synaptic Strength. <i>ENeuro</i> , 2018 , 5,	3.9	9
11	Nanodiamond induced high-Q resonances in defect-free photonic crystal slabs. <i>Optics Express</i> , 2011 , 19, 22219-26	3.3	6
10	Diamond-Based Optical Waveguides, Cavities, and Other Microstructures 2013 , 311-351		4
9	Lossless backward second-harmonic generation of extremely narrow subdiffractive beams in two-dimensional photonic crystals. <i>Physical Review A</i> , 2010 , 82,	2.6	3
8	Propagation of optical pulses in photonic crystal waveguides. <i>IEE Proceedings: Optoelectronics</i> , 2004 , 151, 109		3
7	Hybrid nanodiamond and titanium dioxide nanobeam cavity design. <i>Optical Materials Express</i> , 2017 , 7, 785	2.6	1
6	High-Q Defect-Free 2D Photonic Crystal Cavity from Random Localised Disorder. <i>Crystals</i> , 2014 , 4, 342-350		1
5	Temporal ringdown of silicon-on-insulator racetrack resonators. <i>Optics Letters</i> , 2013 , 38, 2304-6	3	1
4	Thermal improvement of InP wire photonic crystal laser on silicon by addition of Diamond Nanoparticles in polymer bonding layer 2010 ,		1
3	Modelling of a 2D photonic crystal waveguide pulse reshaper integrated with a SOA 2005 ,		1
2	Direct observation of Temporal Solitons and Pulse acceleration in III-V semiconductor Photonic crystal waveguides 2011 ,		1
1	Glass-brain mapping provides an adjunct tool for structural analysis in mouse models of neurodevelopmental disease. <i>NeuroImage Reports</i> , 2021 , 1, 100023		