

Lucas H Gabrielli

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.

41
papers

1,455
citations

12
h-index

38
g-index

69
ext. papers

1,814
ext. citations

4.7
avg, IF

4.54
L-index

#	Paper	IF	Citations
41	Silicon nanostructure cloak operating at optical frequencies. <i>Nature Photonics</i> , 2009 , 3, 461-463	33.9	502
40	WDM-compatible mode-division multiplexing on a silicon chip. <i>Nature Communications</i> , 2014 , 5, 3069	17.4	428
39	On-chip transformation optics for multimode waveguide bends. <i>Nature Communications</i> , 2012 , 3, 1217	17.4	180
38	Transformation inverse design. <i>Optics Express</i> , 2013 , 21, 14223-43	3.3	47
37	Integrated Luneburg lens via ultra-strong index gradient on silicon. <i>Optics Express</i> , 2011 , 19, 20122-7	3.3	43
36	Study of a low-cost trimodal polymer waveguide for interferometric optical biosensors. <i>Optics Express</i> , 2015 , 23, 11985-94	3.3	24
35	Focusing light in a curved-space. <i>Optics Express</i> , 2010 , 18, 3181-6	3.3	22
34	Nonlinear carrier dynamics in silicon nano-waveguides. <i>Optica</i> , 2017 , 4, 1219	8.6	21
33	Low-loss modified SU-8 waveguides by direct laser writing at 405 nm. <i>Optical Materials Express</i> , 2017 , 7, 2651	2.6	17
32	Transformation optics on a silicon platform. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 024010	1.7	17
31	Aperiodic Antenna Array for Secondary Lobe Suppression. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 209-212	2.2	16
30	Crop Growth Monitoring with Drone-Borne DInSAR. <i>Remote Sensing</i> , 2020 , 12, 615	5	14
29	Side-lobe level reduction in bio-inspired optical phased-array antennas. <i>Optics Express</i> , 2017 , 25, 30105-30114	3.14	12
28	Drone-borne Differential SAR Interferometry. <i>Remote Sensing</i> , 2020 , 12, 778	5	10
27	Dielectric barrier discharge plasma treatment of modified SU-8 for biosensing applications. <i>Biomedical Optics Express</i> , 2018 , 9, 2168-2175	3.5	9
26	Full three-dimensional isotropic carpet cloak designed by quasi-conformal transformation optics. <i>Optics Express</i> , 2017 , 25, 23517-23522	3.3	8
25	Anisotropy minimization via least squares method for transformation optics. <i>Optics Express</i> , 2014 , 22, 18490-8	3.3	8

24	Design of a compact CMOS-compatible photonic antenna by topological optimization. <i>Optics Express</i> , 2018 , 26, 2435-2442	3.3	7
23	Breakthroughs in Photonics 2013: Advances in Nanoantennas. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-6	1.8	7
22	Optimization of the electromagnetic scattering problem based on the topological derivative method. <i>Optics Express</i> , 2019 , 27, 33586-33605	3.3	7
21	Trimodal Waveguide Demonstration and Its Implementation as a High Order Mode Interferometer for Sensing Application. <i>Sensors</i> , 2019 , 19,	3.8	6
20	Optical free-carrier generation in silicon nano-waveguides at 1550 nm. <i>Applied Physics Letters</i> , 2018 , 112, 251104	3.4	6
19	Design of a 40 GHz bandwidth slow-wave silicon modulator 2017 ,		5
18	Shift of zero-dispersion wavelength in bent optical fibers. <i>Optics Express</i> , 2018 , 26, 6700-6714	3.3	4
17	Robustness Optimization of Fiber Index Profiles for Optical Parametric Amplifiers. <i>Journal of Lightwave Technology</i> , 2009 , 27, 5571-5579	4	4
16	Demonstration of Cloaking at Optical Frequencies 2009 ,		4
15	Three-dimensional quasi-conformal transformation optics through numerical optimization. <i>Optics Express</i> , 2016 , 24, 16465-70	3.3	4
14	High-order dispersion mapping of an optical fiber. <i>Optics Express</i> , 2020 , 28, 4258-4273	3.3	3
13	Treatment of SU-8 surfaces using atmospheric pressure dielectric barrier discharge plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 021403	2.9	2
12	Comparison of Anisotropy Reduction Strategies for Transformation Optics Designs. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-10	1.8	2
11	Reflectionless quasiconformal carpet cloak via parameterization strategy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 2488	1.7	2
10	Integrated Gradient Index Luneburg Lens for Robust Fiber-to-Chip Coupling 2012 ,		2
9	General multimode polarization splitter design in uniaxial media. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	2
8	Efficient integrated tri-modal coupler for few-mode fibers.. <i>Optics Express</i> , 2022 , 30, 2539-2546	3.3	1
7	Topology design optimization of nanophotonic devices for energy concentration. <i>Applied Mathematical Modelling</i> , 2022 , 104, 517-530	4.5	1

6	Comparison between Lateral and Interleaved Junctions for High-speed O-band Silicon Mach-Zehnder Modulator 2018 ,		1
5	Design of Compact Arbitrary-Ratio Multimode Power Splitters Based on Topological Derivative. <i>IEEE Photonics Technology Letters</i> , 2020 , 32, 1187-1190	2.2	1
4	Polymer Based Trimodal Interferometric Sensor 2019 ,		1
3	Compact dual-polarization silicon integrated couplers for multicore fibers. <i>Optics Letters</i> , 2021 , 46, 3649-3652	3	1
2	Predicting Sugarcane Harvest Date and Productivity with a Drone-Borne Tri-Band SAR. <i>Remote Sensing</i> , 2022 , 14, 1734	5	0
1	Retrieval of Effective Electromagnetic Properties in Terahertz: From Organics to Metamaterials. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 25-34	0.5	