

# Lucas H Gabrielli

## List of Publications by Year in Descending Order

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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	Efficient integrated tri-modal coupler for few-mode fibers.. <i>Optics Express</i> , <b>2022</b> , 30, 2539-2546	3.3	1
40	Topology design optimization of nanophotonic devices for energy concentration. <i>Applied Mathematical Modelling</i> , <b>2022</b> , 104, 517-530	4.5	1
39	Predicting Sugarcane Harvest Date and Productivity with a Drone-Borne Tri-Band SAR. <i>Remote Sensing</i> , <b>2022</b> , 14, 1734	5	0
38	Compact dual-polarization silicon integrated couplers for multicore fibers. <i>Optics Letters</i> , <b>2021</b> , 46, 3649-3652	3.3	1
37	Crop Growth Monitoring with Drone-Borne DInSAR. <i>Remote Sensing</i> , <b>2020</b> , 12, 615	5	14
36	Drone-borne Differential SAR Interferometry. <i>Remote Sensing</i> , <b>2020</b> , 12, 778	5	10
35	High-order dispersion mapping of an optical fiber. <i>Optics Express</i> , <b>2020</b> , 28, 4258-4273	3.3	3
34	Design of Compact Arbitrary-Ratio Multimode Power Splitters Based on Topological Derivative. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 32, 1187-1190	2.2	1
33	Trimodal Waveguide Demonstration and Its Implementation as a High Order Mode Interferometer for Sensing Application. <i>Sensors</i> , <b>2019</b> , 19,	3.8	6
32	Optimization of the electromagnetic scattering problem based on the topological derivative method. <i>Optics Express</i> , <b>2019</b> , 27, 33586-33605	3.3	7
31	Retrieval of Effective Electromagnetic Properties in Terahertz: From Organics to Metamaterials. <i>Smart Innovation, Systems and Technologies</i> , <b>2019</b> , 25-34	0.5	
30	Polymer Based Trimodal Interferometric Sensor <b>2019</b> ,		1
29	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> , <b>2018</b> , 36, 021403	2.9	2
28	Shift of zero-dispersion wavelength in bent optical fibers. <i>Optics Express</i> , <b>2018</b> , 26, 6700-6714	3.3	4
27	Dielectric barrier discharge plasma treatment of modified SU-8 for biosensing applications. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 2168-2175	3.5	9
26	Design of a compact CMOS-compatible photonic antenna by topological optimization. <i>Optics Express</i> , <b>2018</b> , 26, 2435-2442	3.3	7
25	General multimode polarization splitter design in uniaxial media. <i>Optical Engineering</i> , <b>2018</b> , 57, 1	1.1	2

24	Comparison between Lateral and Interleaved Junctions for High-speed O-band Silicon Mach-Zehnder Modulator <b>2018</b> ,		1
23	Optical free-carrier generation in silicon nano-waveguides at 1550 nm. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 251104	3-4	6
22	Design of a 40 GHz bandwidth slow-wave silicon modulator <b>2017</b> ,		5
21	Full three-dimensional isotropic carpet cloak designed by quasi-conformal transformation optics. <i>Optics Express</i> , <b>2017</b> , 25, 23517-23522	3-3	8
20	Nonlinear carrier dynamics in silicon nano-waveguides. <i>Optica</i> , <b>2017</b> , 4, 1219	8.6	21
19	Side-lobe level reduction in bio-inspired optical phased-array antennas. <i>Optics Express</i> , <b>2017</b> , 25, 30105-30114	3-14	12
18	Low-loss modified SU-8 waveguides by direct laser writing at 405 nm. <i>Optical Materials Express</i> , <b>2017</b> , 7, 2651	2.6	17
17	Aperiodic Antenna Array for Secondary Lobe Suppression. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 209-212	2.2	16
16	Three-dimensional quasi-conformal transformation optics through numerical optimization. <i>Optics Express</i> , <b>2016</b> , 24, 16465-70	3-3	4
15	Study of a low-cost trimodal polymer waveguide for interferometric optical biosensors. <i>Optics Express</i> , <b>2015</b> , 23, 11985-94	3-3	24
14	Comparison of Anisotropy Reduction Strategies for Transformation Optics Designs. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-10	1.8	2
13	Reflectionless quasiconformal carpet cloak via parameterization strategy. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2015</b> , 32, 2488	1.7	2
12	WDM-compatible mode-division multiplexing on a silicon chip. <i>Nature Communications</i> , <b>2014</b> , 5, 3069	17.4	428
11	Breakthroughs in Photonics 2013: Advances in Nanoantennas. <i>IEEE Photonics Journal</i> , <b>2014</b> , 6, 1-6	1.8	7
10	Anisotropy minimization via least squares method for transformation optics. <i>Optics Express</i> , <b>2014</b> , 22, 18490-8	3-3	8
9	Transformation inverse design. <i>Optics Express</i> , <b>2013</b> , 21, 14223-43	3-3	47
8	On-chip transformation optics for multimode waveguide bends. <i>Nature Communications</i> , <b>2012</b> , 3, 1217	17.4	180
7	Integrated Gradient Index Luneburg Lens for Robust Fiber-to-Chip Coupling <b>2012</b> ,		2

6	Integrated Luneburg lens via ultra-strong index gradient on silicon. <i>Optics Express</i> , <b>2011</b> , 19, 20122-7	3.3	43
5	Transformation optics on a silicon platform. <i>Journal of Optics (United Kingdom)</i> , <b>2011</b> , 13, 024010	1.7	17
4	Focusing light in a curved-space. <i>Optics Express</i> , <b>2010</b> , 18, 3181-6	3.3	22
3	Silicon nanostructure cloak operating at optical frequencies. <i>Nature Photonics</i> , <b>2009</b> , 3, 461-463	33.9	502
2	Robustness Optimization of Fiber Index Profiles for Optical Parametric Amplifiers. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 5571-5579	4	4
1	Demonstration of Cloaking at Optical Frequencies <b>2009</b> ,		4