

Lucas H Gabrielli

List of Publications by Year in descending order

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69
papers

2,010
citations

623188

14
h-index

360668

35
g-index

69
all docs

69
docs citations

69
times ranked

2033
citing authors

#	ARTICLE	IF	CITATIONS
1	WDM-compatible mode-division multiplexing on a silicon chip. Nature Communications, 2014, 5, 3069.	5.8	604
2	Silicon nanostructure cloak operating at optical frequencies. Nature Photonics, 2009, 3, 461-463.	15.6	587
3	On-chip transformation optics for multimode waveguide bends. Nature Communications, 2012, 3, 1217.	5.8	232
4	Transformation inverse design. Optics Express, 2013, 21, 14223.	1.7	67
5	Integrated Luneburg lens via ultra-strong index gradient on silicon. Optics Express, 2011, 19, 20122.	1.7	52
6	Study of a low-cost trimodal polymer waveguide for interferometric optical biosensors. Optics Express, 2015, 23, 11985.	1.7	32
7	Nonlinear carrier dynamics in silicon nano-waveguides. Optica, 2017, 4, 1219.	4.8	32
8	Crop Growth Monitoring with Drone-Borne DInSAR. Remote Sensing, 2020, 12, 615.	1.8	32
9	Drone-borne Differential SAR Interferometry. Remote Sensing, 2020, 12, 778.	1.8	30
10	Focusing light in a curved-space. Optics Express, 2010, 18, 3181.	1.7	28
11	Low-loss modified SU-8 waveguides by direct laser writing at 405 nm. Optical Materials Express, 2017, 7, 2651.	1.6	27
12	Transformation optics on a silicon platform. Journal of Optics (United Kingdom), 2011, 13, 024010.	1.0	24
13	Aperiodic Antenna Array for Secondary Lobe Suppression. IEEE Photonics Technology Letters, 2016, 28, 209-212.	1.3	24
14	Side-lobe level reduction in bio-inspired optical phased-array antennas. Optics Express, 2017, 25, 30105.	1.7	24
15	Breakthroughs in Photonics 2013: Advances in Nanoantennas. IEEE Photonics Journal, 2014, 6, 1-6.	1.0	14
16	Anisotropy minimization via least squares method for transformation optics. Optics Express, 2014, 22, 18490.	1.7	14
17	Dielectric barrier discharge plasma treatment of modified SU-8 for biosensing applications. Biomedical Optics Express, 2018, 9, 2168.	1.5	14
18	Optimization of the electromagnetic scattering problem based on the topological derivative method. Optics Express, 2019, 27, 33586.	1.7	14

#	ARTICLE	IF	CITATIONS
19	Optical free-carrier generation in silicon nano-waveguides at 1550nm. Applied Physics Letters, 2018, 112, .	1.5	13
20	Design of a compact CMOS-compatible photonic antenna by topological optimization. Optics Express, 2018, 26, 2435.	1.7	13
21	Trimodal Waveguide Demonstration and Its Implementation as a High Order Mode Interferometer for Sensing Application. Sensors, 2019, 19, 2821.	2.1	13
22	Compact dual-polarization silicon integrated couplers for multicore fibers. Optics Letters, 2021, 46, 3649.	1.7	12
23	Full three-dimensional isotropic carpet cloak designed by quasi-conformal transformation optics. Optics Express, 2017, 25, 23517.	1.7	11
24	Efficient integrated tri-modal coupler for few-mode fibers. Optics Express, 2022, 30, 2539.	1.7	11
25	Design of a 40 GHz bandwidth slow-wave silicon modulator. , 2017, , .		10
26	Robustness Optimization of Fiber Index Profiles for Optical Parametric Amplifiers. Journal of Lightwave Technology, 2009, 27, 5571-5579.	2.7	7
27	Three-dimensional quasi-conformal transformation optics through numerical optimization. Optics Express, 2016, 24, 16465.	1.7	7
28	Drone-Borne P-band Single-Pass InSAR. , 2020, , .		6
29	Shift of zero-dispersion wavelength in bent optical fibers. Optics Express, 2018, 26, 6700.	1.7	5
30	High-order dispersion mapping of an optical fiber. Optics Express, 2020, 28, 4258.	1.7	5
31	Predicting Sugarcane Harvest Date and Productivity with a Drone-Borne Tri-Band SAR. Remote Sensing, 2022, 14, 1734.	1.8	5
32	Sparse array of dielectric resonator antennas for ultra-wide band applications. , 2017, , .		4
33	Design of Compact Arbitrary-Ratio Multimode Power Splitters Based on Topological Derivative. IEEE Photonics Technology Letters, 2020, 32, 1187-1190.	1.3	4
34	Demonstration of Cloaking at Optical Frequencies. , 2009, , .		4
35	Comparison of Anisotropy Reduction Strategies for Transformation Optics Designs. IEEE Photonics Journal, 2015, 7, 1-10.	1.0	3
36	Reflectionless quasiconformal carpet cloak via parameterization strategy. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2488.	0.9	3

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37	General multimode polarization splitter design in uniaxial media. <i>Optical Engineering</i> , 2018, 57, 1.	0.5	3
38	Sugarcane Precision Monitoring by Drone-Borne P/L/C-Band DInSAR. , 2021, , .		3
39	Topology design optimization of nanophotonic devices for energy concentration. <i>Applied Mathematical Modelling</i> , 2022, 104, 517-530.	2.2	3
40	Integrated Gradient Index Luneburg Lens for Robust Fiber-to-Chip Coupling. , 2012, , .		2
41	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.	0.9	2
42	Ultra-Compact Broadband Dielectric Antenna. , 2016, , .		2
43	Side-lobe Level Reduction in Two-dimensional Optical Phased Array Antennas. , 2018, , .		2
44	Extraction of effective parameters in terahertz time-domain spectroscopy. , 2017, , .		1
45	Polymer Based Trimodal Interferometric Sensor. , 2019, , .		1
46	Compact grating coupler array for multicore fiber fabricated with DUV lithography. , 2021, , .		1
47	On-Chip Mode-Division Multiplexer. , 2013, , .		1
48	Comparison between Lateral and Interleaved Junctions for High-speed O-band Silicon Mach-Zehnder Modulator. , 2018, , .		1
49	Integrated Couplers for OAM Fiber Modes using Compact Antennas and Circular Grating. , 2020, , .		1
50	On-Chip Multimode Photonics. , 2012, , .		0
51	SOI Nanotennas for Inter Chip Communications. , 2014, , .		0
52	Anisotropy Reduction Strategies for Transformation Optics Designs. , 2014, , .		0
53	Application of the least square method for transformation optics. , 2014, , .		0
54	Parameterization strategy for anisotropy reduction in the carpet cloak. , 2015, , .		0

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55	3D isotropic TO via parametrization. , 2016, , .		0
56	Full three-dimensional broadband and isotropic carpet cloak. , 2017, , .		0
57	Arbitrary geometry polarization splitter designee with quasi-conformal transformation optics. , 2017, , .		0
58	Polarization Splitter Design with Quasi-Conformal Transformation Optics. , 2017, , .		0
59	Imaging with a Rigid Multimode Fiber Bundle. , 2021, , .		0
60	Focusing Light in a Curved-Space. , 2010, , .		0
61	Simulation of a silicon photonics C-band and L-band OFDM demultiplexer. , 2014, , .		0
62	Projeto e construÃ§Ã£o de um amplificador em estado sÃ³lido na banda de UHF. , 0, , .		0
63	A Full Three-Dimensional Isotropic Carpet Cloak Designed by Transformation Optics. , 2017, , .		0
64	Achieving Invisibility in the Far Field with a 3D Carpet Cloak Design for Visible Light. , 2018, , .		0
65	Characterization of linear and nonlinear carrier generation in silicon nano-waveguides at 1550 nm. , 2018, , .		0
66	Polarization Splitter with TE Homogeneous Media and TM Inhomogeneous Media. , 2018, , .		0
67	Probing free-carrier recombination in silicon strip nano-waveguides. , 2018, , .		0
68	Retrieval of Effective Electromagnetic Properties in Terahertz: From Organics to Metamaterials. Smart Innovation, Systems and Technologies, 2019, , 25-34.	0.5	0
69	Driver for insole heated by graphite nanoribbons. , 0, , .		0