

Matteo Galli

List of Publications by Year in descending order

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55
papers

3,397
citations

201674

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docs citations

56
times ranked

4854
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of Parasitic Nonlinear Processes in Spontaneous Four-Wave Mixing with Linearly Uncoupled Resonators. <i>Physical Review Letters</i> , 2021, 127, 033901.	7.8	11
2	Thermo-optically induced transparency on a photonic chip. <i>Light: Science and Applications</i> , 2021, 10, 240.	16.6	10
3	Selective tuning of optical modes in a silicon comb-like photonic crystal cavity. <i>Nanophotonics</i> , 2020, 9, 205-210.	6.0	17
4	Silicon Nitride Photonics for the Near-Infrared. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-13.	2.9	40
5	Doubly resonant second-harmonic generation of a vortex beam from a bound state in the continuum. <i>Optica</i> , 2020, 7, 1126.	9.3	44
6	Emission of Time-Energy Entangled Photon Pairs by a Self-Pumped Silicon Microresonator. , 2020, , .		0
7	Electrically driven source of time-energy entangled photons based on a self-pumped silicon microring resonator. <i>Optics Letters</i> , 2020, 45, 2768.	3.3	1
8	Doubly Resonant Second Harmonic Generation in Photonic Crystal Cavities via Bound States in the Continuum. , 2020, , .		0
9	Cavity-enhanced harmonic generation in silicon rich nitride photonic crystal microresonators. <i>Applied Physics Letters</i> , 2019, 114, 131103.	3.3	11
10	Four-wave mixing in a silicon microring resonator using a self-pumping geometry. <i>Applied Physics Letters</i> , 2018, 113, 121111.	3.3	3
11	Nonlinear characterization of a silicon integrated Bragg waveguide filter. <i>Optics Letters</i> , 2018, 43, 1171.	3.3	1
12	Coherent backscattering of Raman light. <i>Nature Photonics</i> , 2017, 11, 170-176.	31.4	44
13	Enhanced Telecom Emission from Single Group-IV Quantum Dots by Precise CMOS-Compatible Positioning in Photonic Crystal Cavities. <i>ACS Photonics</i> , 2017, 4, 665-673.	6.6	48
14	Nonclassical light sources for silicon photonics. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017, 26, 24-34.	2.0	1
15	Efficient continuous-wave nonlinear frequency conversion in high-Q gallium nitride photonic crystal cavities on silicon. <i>APL Photonics</i> , 2017, 2, .	5.7	38
16	Integrated sources of photon quantum states based on nonlinear optics. <i>Light: Science and Applications</i> , 2017, 6, e17100-e17100.	16.6	194
17	Ultra-high-Q photonic crystal cavities in silicon rich nitride. <i>Optics Express</i> , 2017, 25, 27334.	3.4	10
18	Energy correlations of photon pairs generated by a silicon microring resonator probed by Stimulated Four Wave Mixing. <i>Scientific Reports</i> , 2016, 6, 23564.	3.3	37

#	ARTICLE	IF	CITATIONS
19	Strongly enhanced light trapping in a two-dimensional silicon nanowire random fractal array. <i>Light: Science and Applications</i> , 2016, 5, e16062-e16062.	16.6	97
20	Decoration of silicon nanowires with silver nanoparticles for ultrasensitive surface enhanced Raman scattering. <i>Nanotechnology</i> , 2016, 27, 375603.	2.6	33
21	Micrometer-scale integrated silicon source of time-energy entangled photons. <i>Optica</i> , 2015, 2, 88.	9.3	212
22	Active stabilization of a Michelson interferometer at an arbitrary phase with subnanometer resolution. <i>Optics Letters</i> , 2014, 39, 2530.	3.3	15
23	Silicon nanostructures for photonics and photovoltaics. <i>Nature Nanotechnology</i> , 2014, 9, 19-32.	31.5	802
24	Generation of time-energy entangled photons on a silicon chip. , 2014, , .		0
25	Integrated Source of Spectrally Filtered Correlated Photons for Large-Scale Quantum Photonic Systems. <i>Physical Review X</i> , 2014, 4, .	8.9	100
26	Emission of time-energy entangled photon pairs from an integrated silicon ring resonator. , 2014, , .		0
27	Stimulated and spontaneous four-wave mixing in silicon-on-insulator coupled photonic wire nano-cavities. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	65
28	Room temperature all-silicon photonic crystal nanocavity light emitting diode at sub-bandgap wavelengths. <i>Laser and Photonics Reviews</i> , 2013, 7, 114-121.	8.7	67
29	Room temperature electrically pumped silicon nano-light source at telecommunication wavelengths. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
30	Spontaneous parametric fluorescence in SOI integrated microresonators. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
31	Four-wave mixing and generation of correlated photon pairs in silicon ring resonators and photonic molecules. , 2013, , .		1
32	Ultra-low power generation of twin photons in a compact silicon ring resonator. <i>Optics Express</i> , 2012, 20, 23100.	3.4	184
33	From classical four-wave mixing to parametric fluorescence in silicon microring resonators. <i>Optics Letters</i> , 2012, 37, 3807.	3.3	77
34	Novel Dispersion-Adapted Photonic Crystal Cavity With Improved Disorder Stability. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 1177-1183.	1.9	32
35	Novel photonic crystal nanocavity design with high tolerance to disorder. , 2012, , .		0
36	Enhancing Optical Functionalities of Silicon with Photonic Crystal Nanocavities. , 2012, , .		0

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37	Nonlinear optics in Silicon photonic crystal cavities. , 2011, , .		1
38	Electrical and optical properties of ion implanted SOI-based photonic crystals. , 2011, , .		0
39	Ultra-low threshold polariton lasing in photonic crystal cavities. Applied Physics Letters, 2011, 99, .	3.3	59
40	Nonlinear optics in silicon photonic crystal nanocavities. , 2011, , .		0
41	Light generation in silicon photonic crystal cavities. , 2011, , .		0
42	Subbandgap photoluminescence of Si photonic crystal nanocavity at room temperature. , 2011, , .		0
43	Photoluminescence spectroscopy of silicon photonic crystal nanocavities. , 2011, , .		0
44	Low-power continuous-wave frequency conversion in far-field optimized silicon photonic crystal nanocavities. , 2011, , .		0
45	Electrical conduction and optical properties of doped silicon-on-insulator photonic crystals. Applied Physics Letters, 2011, 98, 203506.	3.3	12
46	Enhanced Light Emission from Silicon using Photonic Crystal Nanocavities. , 2011, , .		0
47	Self-assembled monolayers of silver nanoparticles firmly grafted on glass surfaces: Low Ag ⁺ release for an efficient antibacterial activity. Journal of Colloid and Interface Science, 2010, 350, 110-116.	9.4	130
48	Nanoscale chemical mapping using three-dimensional adiabatic compression of surface plasmon polaritons. Nature Nanotechnology, 2010, 5, 67-72.	31.5	352
49	Planar photonic crystal cavities with far-field optimization for high coupling efficiency and quality factor. Optics Express, 2010, 18, 16064.	3.4	139
50	Low-power continuous-wave generation of visible harmonics in silicon photonic crystal nanocavities. Optics Express, 2010, 18, 26613.	3.4	113
51	Spectroscopic evaluation of surface functionalization efficiency in the preparation of mercaptopropyltrimethoxysilane self-assembled monolayers on glass. Journal of Colloid and Interface Science, 2009, 332, 432-438.	9.4	53
52	Demonstration of diffraction enhancement via Bloch surface waves in a-SiN:H multilayers. Applied Physics Letters, 2009, 94, .	3.3	27
53	A Hybrid Plasmonic~Photonic Nanodevice for Label-Free Detection of a Few Molecules. Nano Letters, 2008, 8, 2321-2327.	9.1	215
54	All-optical switching in 2D silicon photonic crystals with low loss waveguides and optical cavities. Optics Express, 2008, 16, 11624.	3.4	59

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55	All-optical switching in 2D silicon photonic crystals with low loss waveguides and optical cavities. Optics Express, 2008, 16, 11624-36.	3.4	40