

# Giovanna Calo

## List of Publications by Year in descending order

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47  
papers

431  
citations

758635

12  
h-index

794141

19  
g-index

47  
all docs

47  
docs citations

47  
times ranked

254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated Vivaldi plasmonic antenna for wireless on-chip optical communications. Optics Express, 2017, 25, 16214.	1.7	51
2	Broadband Mach-Zehnder Switch for Photonic Networks on Chip. Journal of Lightwave Technology, 2012, 30, 944-952.	2.7	44
3	Wavelength Routers for Optical Networks-on-Chip Using Optimized Photonic Crystal Ring Resonators. IEEE Photonics Journal, 2013, 5, 7901011-7901011.	1.0	30
4	Tunability of Photonic Band Gap Notch Filters. IEEE Nanotechnology Magazine, 2008, 7, 273-284.	1.1	24
5	Compact design of photonic crystal ring resonator 2 $\times$ 2 routers as building blocks for photonic networks on chip. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 517.	0.9	20
6	Array of plasmonic Vivaldi antennas coupled to silicon waveguides for wireless networks through on-chip optical technology - WINOT. Optics Express, 2018, 26, 30267.	1.7	19
7	Study of gain in photonic bandgap active InP waveguides. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2414.	0.9	15
8	Equalization in photonic bandgap multiwavelength filters by the Newton binomial distribution. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1668.	0.9	15
9	Active InGaAsP/InP Photonic Bandgap Waveguides for Wavelength-Selective Switching. IEEE Journal of Quantum Electronics, 2011, 47, 172-181.	1.0	15
10	Wavelength selective switching in dilute nitrides multi quantum well photonic band gap waveguides. Physica Status Solidi (B): Basic Research, 2011, 248, 1212-1215.	0.7	15
11	Vertical link solutions for multilayer optical-networks-on-chip topologies. Optical and Quantum Electronics, 2014, 46, 385-396.	1.5	15
12	Ray Tracing Modeling of Electromagnetic Propagation for On-Chip Wireless Optical Communications. Journal of Low Power Electronics and Applications, 2018, 8, 39.	1.3	15
13	Active Photonic Band-Gap Switch Based on GaInNAs Multiquantum Well. IEEE Photonics Journal, 2012, 4, 1936-1946.	1.0	12
14	ACTIVE WDM FILTER ON DILUTE NITRIDE QUANTUM WELL PHOTONIC BAND GAP WAVEGUIDE. Progress in Electromagnetics Research Letters, 2012, 35, 37-49.	0.4	12
15	Multi-Path Propagation in On-Chip Optical Wireless Links. IEEE Photonics Technology Letters, 2020, 32, 1101-1104.	1.3	12
16	Design of reconfigurable on-chip wireless interconnections through Optical Phased Arrays. Optics Express, 2021, 29, 31212.	1.7	12
17	Multi-Level Analysis of On-Chip Optical Wireless Links. Applied Sciences (Switzerland), 2020, 10, 196.	1.3	11
18	WDM PERFORMANCES OF TWO- AND THREE-WAVEGUIDE MACH-ZEHNDER SWITCHES ASSEMBLED INTO 4X4 MATRIX ROUTER. Progress in Electromagnetics Research Letters, 2013, 38, 1-16.	0.4	10

#	ARTICLE	IF	CITATIONS
19	Double Vivaldi antenna for wireless optical networks on chip. Optical and Quantum Electronics, 2018, 50, 1.	1.5	10
20	Pulmonary Recruitment Strategy in Preterm Neonatesâ€™ 29 Weeks of Gestational Age to Reduce the Need for Intubation in the Delivery Room. American Journal of Perinatology, 2019, 36, S115-S119.	0.6	9
21	Efficient plasmonic nanostructures for thin film solar cells. , 2010, , .		8
22	Numerical and Experimental Analysis of On-Chip Optical Wireless Links in Presence of Obstacles. IEEE Photonics Journal, 2021, 13, 1-11.	1.0	8
23	Dielectric and Plasmonic Vivaldi Antennas for On-Chip Wireless Communication. , 2019, , .		7
24	Generic Wavelength-routed Optical Router (GWOR) based on grating-assisted vertical couplers for multilayer optical networks. Optics Communications, 2016, 366, 99-106.	1.0	5
25	HIGH-Q PHOTONIC CRYSTAL NANOBEAM CAVITY BASED ON A SILICON NITRIDE MEMBRANE INCORPORATING FABRICATION IMPERFECTIONS AND A LOW-INDEX MATERIAL LAYER. Progress in Electromagnetics Research B, 2012, 37, 191-204.	0.7	4
26	Photonic band gap active waveguide filters based on dilute nitrides. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 567-572.	0.8	4
27	Grating-assisted vertical couplers for signal routing in multilayer integrated optical networks. Optics Communications, 2017, 386, 6-13.	1.0	4
28	Integrated Vivaldi antennas, an enabling technology for optical wireless networks on chip. , 2018, , .		4
29	Mesoscopic self-collimation along arbitrary directions and below the light line. Optics Express, 2019, 27, 30287.	1.7	4
30	DESIGN AND OPTIMIZATION OF HIGH SENSITIVITY PHOTONIC INTERFEROMETRIC BIOSENSORS ON POLYMERIC WAVEGUIDES. Progress in Electromagnetics Research Letters, 2012, 33, 151-166.	0.4	3
31	Multilayer optical routing by means of vertical directional coupler with long range surface plasmons. AIP Conference Proceedings, 2019, , .	0.3	3
32	Photonic interconnects for chip multiprocessing architectures. , 2012, , .		2
33	Design of mesoscopic self-collimating photonic crystals under oblique incidence. Optics Express, 2021, 29, 33380.	1.7	2
34	Effect of Radio Channel and Antennas on Physical-Layer-Security Key Exchange. IEEE Access, 2021, 9, 162175-162189.	2.6	2
35	A Ray Tracing Tool for Propagation Modeling in Layered Media: A Case Study at the Chip Scale. IEEE Open Journal of Antennas and Propagation, 2022, 3, 249-262.	2.5	2
36	Wavelength routers for multilayer integrated optical networks on chip. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	Assessment of On-chip Wireless Communication Networks Based on Integrated Dielectric Antennas. , 2020, , .		1
38	Ray Tracing Channel Modeling for Optical Wireless Networks On-Chip. , 2021, , .		1
39	Optimized design of gigahertz transverse electromagnetic cells for dosimetric experiments. Radio Science, 2007, 42, n/a-n/a.	0.8	0
40	Analysis and design of novel photonic active devices based on dilute nitrides. , 2011, , .		0
41	Photonic components for signal routing in optical networks on chip. , 2013, , .		0
42	Thermal performance of photonic crystal waveguiding devices based on GaInNAs/GaInAs quantum-wells. , 2014, , .		0
43	TEMPERATURE PERFORMANCE OF GAINNAS-BASED PHOTONIC CRYSTAL WAVEGUIDE MODULATORS. Progress in Electromagnetics Research M, 2016, 47, 201-213.	0.5	0
44	Coupling between Si-waveguides and plasmonic antennas for optical networks on chip. , 2017, , .		0
45	On-Chip Wireless Optical Communication: From Antenna Design to Channel Modelling. , 2018, , .		0
46	Optical trapping in 1D mesoscopic photonic crystal microcavities. , 2018, , .		0
47	Reconfigurable on-chip wireless interconnections through optical phased arrays (Invited). , 2021, , .		0