

# Giovanna Calo

## List of Publications by Year in descending order

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47  
papers

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citations

758635

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794141

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docs citations

47  
times ranked

254  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Numerical and Experimental Analysis of On-Chip Optical Wireless Links in Presence of Obstacles. IEEE Photonics Journal, 2021, 13, 1-11.	1.0	8
3	Ray Tracing Channel Modeling for Optical Wireless Networks On-Chip. , 2021, , .		1
4	Design of reconfigurable on-chip wireless interconnections through Optical Phased Arrays. Optics Express, 2021, 29, 31212.	1.7	12
5	Design of mesoscopic self-collimating photonic crystals under oblique incidence. Optics Express, 2021, 29, 33380.	1.7	2
6	Effect of Radio Channel and Antennas on Physical-Layer-Security Key Exchange. IEEE Access, 2021, 9, 162175-162189.	2.6	2
7	Reconfigurable on-chip wireless interconnections through optical phased arrays (Invited). , 2021, , .		0
8	Multi-Path Propagation in On-Chip Optical Wireless Links. IEEE Photonics Technology Letters, 2020, 32, 1101-1104.	1.3	12
9	Assessment of On-chip Wireless Communication Networks Based on Integrated Dielectric Antennas. , 2020, , .		1
10	Multi-Level Analysis of On-Chip Optical Wireless Links. Applied Sciences (Switzerland), 2020, 10, 196.	1.3	11
11	Pulmonary Recruitment Strategy in Preterm Neonatesâ€œ<â€œ29 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
12	Multilayer optical routing by means of vertical directional coupler with long range surface plasmons. AIP Conference Proceedings, 2019, , .	0.3	3
13	Dielectric and Plasmonic Vivaldi Antennas for On-Chip Wireless Communication. , 2019, , .		7
14	Mesoscopic self-collimation along arbitrary directions and below the light line. Optics Express, 2019, 27, 30287.	1.7	4
15	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
16	On-Chip Wireless Optical Communication: From Antenna Design to Channel Modelling. , 2018, , .		0
17	Integrated Vivaldi antennas, an enabling technology for optical wireless networks on chip. , 2018, , .		4
18	Double Vivaldi antenna for wireless optical networks on chip. Optical and Quantum Electronics, 2018, 50, 1.	1.5	10

#	ARTICLE	IF	CITATIONS
19	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
20	Optical trapping in 1D mesoscopic photonic crystal microcavities. , 2018, , .		0
21	Grating-assisted vertical couplers for signal routing in multilayer integrated optical networks. Optics Communications, 2017, 386, 6-13.	1.0	4
22	Coupling between Si-waveguides and plasmonic antennas for optical networks on chip. , 2017, , .		0
23	Integrated Vivaldi plasmonic antenna for wireless on-chip optical communications. Optics Express, 2017, 25, 16214.	1.7	51
24	TEMPERATURE PERFORMANCE OF GAINNAS-BASED PHOTONIC CRYSTAL WAVEGUIDE MODULATORS. Progress in Electromagnetics Research M, 2016, 47, 201-213.	0.5	0
25	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
26	Wavelength routers for multilayer integrated optical networks on chip. , 2015, , .		1
27	Vertical link solutions for multilayer optical-networks-on-chip topologies. Optical and Quantum Electronics, 2014, 46, 385-396.	1.5	15
28	Thermal performance of photonic crystal waveguiding devices based on GaInNAs/GaInAs quantum-wells. , 2014, , .		0
29	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
30	Photonic components for signal routing in optical networks on chip. , 2013, , .		0
31	Wavelength Routers for Optical Networks-on-Chip Using Optimized Photonic Crystal Ring Resonators. IEEE Photonics Journal, 2013, 5, 7901011-7901011.	1.0	30
32	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
33	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
34	Active Photonic Band-Gap Switch Based on GaInNAs Multiquantum Well. IEEE Photonics Journal, 2012, 4, 1936-1946.	1.0	12
35	Photonic interconnects for chip multiprocessing architectures. , 2012, , .		2
36	DESIGN AND OPTIMIZATION OF HIGH SENSITIVITY PHOTONIC INTERFEROMETRIC BIOSENSORS ON POLYMERIC WAVEGUIDES. Progress in Electromagnetics Research Letters, 2012, 33, 151-166.	0.4	3

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37	ACTIVE WDM FILTER ON DILUTE NITRIDE QUANTUM WELL PHOTONIC BAND GAP WAVEGUIDE. Progress in Electromagnetics Research Letters, 2012, 35, 37-49.	0.4	12
38	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
39	Broadband Mach-Zehnder Switch for Photonic Networks on Chip. Journal of Lightwave Technology, 2012, 30, 944-952.	2.7	44
40	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
41	Active InGaAsP/InP Photonic Bandgap Waveguides for Wavelength-Selective Switching. IEEE Journal of Quantum Electronics, 2011, 47, 172-181.	1.0	15
42	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
43	Analysis and design of novel photonic active devices based on dilute nitrides. , 2011, , .		0
44	Efficient plasmonic nanostructures for thin film solar cells. , 2010, , .		8
45	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
46	Tunability of Photonic Band Gap Notch Filters. IEEE Nanotechnology Magazine, 2008, 7, 273-284.	1.1	24
47	Optimized design of gigahertz transverse electromagnetic cells for dosimetric experiments. Radio Science, 2007, 42, n/a-n/a.	0.8	0