

Carlo Edoardo Campanella

List of Publications by Year in descending order

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43
papers

1,686
citations

567281

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434195

31
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44
all docs

44
docs citations

44
times ranked

2738
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibre Bragg Grating Based Strain Sensors: Review of Technology and Applications. Sensors, 2018, 18, 3115.	3.8	301
2	Gyroscope Technology and Applications: A Review in the Industrial Perspective. Sensors, 2017, 17, 2284.	3.8	287
3	Photonic technologies for angular velocity sensing. Advances in Optics and Photonics, 2010, 2, 370.	25.5	189
4	Label-free optical resonant sensors for biochemical applications. Progress in Quantum Electronics, 2013, 37, 51-107.	7.0	165
5	Evidence for non-exponential elastic proton- π^0 proton differential cross-section at low $ t $ and \sqrt{s} by TOTEM. Nuclear Physics B, 2015, 899, 527-546.	3.9	88
6	Measurement of elastic pp scattering at $\sqrt{s} = 8 \text{ TeV}$ in the Coulomb-nuclear interference region: determination of the ρ -parameter and the total cross-section. European Physical Journal C, 2016, 76, 1.	3.9	88
7	Phononic and photonic band gap structures: modelling and applications. Physics Procedia, 2010, 3, 357-364.	1.2	77
8	Recent Advances in Gas and Chemical Detection by Vernier Effect-Based Photonic Sensors. Sensors, 2014, 14, 4831-4855.	3.8	59
9	Localized strain sensing with fiber Bragg-grating ring cavities. Optics Express, 2013, 21, 29435.	3.4	46
10	Fast light generation through velocity manipulation in two vertically-stacked ring resonators. Optics Express, 2010, 18, 2973.	3.4	35
11	Split-mode fiber Bragg grating sensor for high-resolution static strain measurements. Optics Letters, 2014, 39, 6899.	3.3	29
12	Investigation of refractive index sensing based on Fano resonance in fiber Bragg grating ring resonators. Optics Express, 2015, 23, 14301.	3.4	29
13	Optimized Design of Integrated Optical Angular Velocity Sensors Based on a Passive Ring Resonator. Journal of Lightwave Technology, 2009, 27, 2658-2666.	4.6	27
14	Performance of SOI Bragg Grating Ring Resonator for Nonlinear Sensing Applications. Sensors, 2014, 14, 16017-16034.	3.8	27
15	Investigation of fiber Bragg grating based mode-splitting resonant sensors. Optics Express, 2014, 22, 25371.	3.4	27
16	A high efficiency label-free photonic biosensor based on vertically stacked ring resonators. European Physical Journal: Special Topics, 2014, 223, 2009-2021.	2.6	16
17	Mode-splitting cloning in birefringent fiber Bragg grating ring resonators. Optics Letters, 2016, 41, 2672.	3.3	16
18	Design and Optimization of Polarization Splitting and Rotating Devices in Silicon-on-Insulator Technology. Advances in OptoElectronics, 2014, 2014, 1-16.	0.6	15

#	ARTICLE	IF	CITATIONS
19	Fiber Bragg grating laser sensor with direct radio-frequency readout. Optics Letters, 2016, 41, 1420.	3.3	14
20	Numerical and experimental investigation of an optical high-Q spiral resonator gyroscope. , 2012, , .		13
21	Theoretical investigation on the scale factor of a triple ring cavity to be used in frequency sensitive resonant gyroscopes. Journal of the European Optical Society-Rapid Publications, 0, 8, .	1.9	12
22	Enhanced spectral response of π -phase shifted fiber Bragg gratings in closed-loop configuration. Optics Letters, 2015, 40, 2124.	3.3	11
23	Fiber Bragg grating ring resonators under rotation for angular velocity sensing. Applied Optics, 2015, 54, 4789.	1.8	11
24	Modeling of Radiation Effects in Silicon Photonic Devices. IEEE Transactions on Nuclear Science, 2015, 62, 2155-2168.	2.0	10
25	Distributed fiber optics techniques for gas network monitoring. , 2016, , .		10
26	Super-Resonant Intracavity Coherent Absorption. Scientific Reports, 2016, 6, 28947.	3.3	10
27	Loss-induced control of light propagation direction in passive linear coupled optical cavities. Photonics Research, 2018, 6, 525.	7.0	10
28	Methane Gas Photonic Sensor Based on Resonant Coupled Cavities. Sensors, 2019, 19, 5171.	3.8	7
29	Design guidelines for nanoparticle chemical sensors based on mode-splitting silicon-on-insulator planar microcavities. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2383.	2.1	7
30	Design of passive ring resonators to be used for sensing applications. Journal of the European Optical Society-Rapid Publications, 0, 4, .	1.9	5
31	Modelling of photonic crystals: A comparison among various analysis methods. , 2008, , .		4
32	Positive and Negative Pull-Back Instabilities in Mode Splitting Optomechanical Devices. ACS Photonics, 2022, 9, 123-131.	6.6	4
33	Structural polarization conversion in integrated optical vertically stacked ring resonators. Optics and Laser Technology, 2013, 48, 294-301.	4.6	3
34	Thermal and stress influence on performance of SOI racetrack resonator Raman lasers. Journal of Optics (United Kingdom), 2014, 16, 085501.	2.2	3
35	Multiple ring resonators in optical gyroscopes. , 2012, , .		2
36	Coupled π -shifted fibre Bragg grating ring resonant strain sensors. Electronics Letters, 2016, 52, 1873-1875.	1.0	2

#	ARTICLE	IF	CITATIONS
37	Light manipulation in resonant photonic devices. , 2010, , .		1
38	Coupled ring resonators: Physical effects and potential applications. , 2012, , .		1
39	Investigation of Coupling Conditions for Fiber Bragg Grating Ring Resonators. , 2015, , .		1
40	Theoretical investigation of two beams optical ring resonators for new generation photonic sensors. , 2009, , .		0
41	Sensitive strain measurements with a fiber Bragg-grating ring resonator. Proceedings of SPIE, 2014, , .	0.8	0
42	Performance of Bragg grating ring resonator as high sensitivity refractive index sensor. , 2014, , .		0
43	Super-resonant coherent absorption sensing. , 2018, , .		0