

Carlo Edoardo Campanella

List of Publications by Year in descending order

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papers

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566801

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433756

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44
all docs

44
docs citations

44
times ranked

2738
citing authors

#	ARTICLE	IF	CITATIONS
1	Positive and Negative Pull-Back Instabilities in Mode Splitting Optomechanical Devices. ACS Photonics, 2022, 9, 123-131.	3.2	4
2	Methane Gas Photonic Sensor Based on Resonant Coupled Cavities. Sensors, 2019, 19, 5171.	2.1	7
3	Fibre Bragg Grating Based Strain Sensors: Review of Technology and Applications. Sensors, 2018, 18, 3115.	2.1	301
4	Loss-induced control of light propagation direction in passive linear coupled optical cavities. Photonics Research, 2018, 6, 525.	3.4	10
5	Super-resonant coherent absorption sensing. , 2018, , .		0
6	Gyroscope Technology and Applications: A Review in the Industrial Perspective. Sensors, 2017, 17, 2284.	2.1	287
7	Fiber Bragg grating laser sensor with direct radio-frequency readout. Optics Letters, 2016, 41, 1420.	1.7	14
8	Distributed fiber optics techniques for gas network monitoring. , 2016, , .		10
9	Coupled π -shifted fibre Bragg grating ring resonant strain sensors. Electronics Letters, 2016, 52, 1873-1875.	0.5	2
10	Super-Resonant Intracavity Coherent Absorption. Scientific Reports, 2016, 6, 28947.	1.6	10
11	Measurement of elastic pp scattering at $\sqrt{s} = 8 \text{ TeV}$ in the Coulomb nuclear interference region: determination of the σ_{tot} -parameter and the total cross-section. European Physical Journal C, 2016, 76, 1.	1.4	88
12	Mode-splitting cloning in birefringent fiber Bragg grating ring resonators. Optics Letters, 2016, 41, 2672.	1.7	16
13	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.	0.9	7
14	Evidence for non-exponential elastic proton-proton differential cross-section at low $ t $ and $\sqrt{s} = 8 \text{ TeV}$ in the Coulomb nuclear interference region: determination of the σ_{tot} -parameter and the total cross-section by TOTEM. Nuclear Physics B, 2015, 899, 527-546.		1
15	Investigation of Coupling Conditions for Fiber Bragg Grating Ring Resonators. , 2015, , .		1
16	Modeling of Radiation Effects in Silicon Photonic Devices. IEEE Transactions on Nuclear Science, 2015, 62, 2155-2168.	1.2	10
17	Enhanced spectral response of π -phase shifted fiber Bragg gratings in closed-loop configuration. Optics Letters, 2015, 40, 2124.	1.7	11
18	Investigation of refractive index sensing based on Fano resonance in fiber Bragg grating ring resonators. Optics Express, 2015, 23, 14301.	1.7	29

#	ARTICLE	IF	CITATIONS
19	Fiber Bragg grating ring resonators under rotation for angular velocity sensing. Applied Optics, 2015, 54, 4789.	0.9	11
20	Design and Optimization of Polarization Splitting and Rotating Devices in Silicon-on-Insulator Technology. Advances in OptoElectronics, 2014, 2014, 1-16.	0.6	15
21	A high efficiency label-free photonic biosensor based on vertically stacked ring resonators. European Physical Journal: Special Topics, 2014, 223, 2009-2021.	1.2	16
22	Performance of SOI Bragg Grating Ring Resonator for Nonlinear Sensing Applications. Sensors, 2014, 14, 16017-16034.	2.1	27
23	Recent Advances in Gas and Chemical Detection by Vernier Effect-Based Photonic Sensors. Sensors, 2014, 14, 4831-4855.	2.1	59
24	Split-mode fiber Bragg grating sensor for high-resolution static strain measurements. Optics Letters, 2014, 39, 6899.	1.7	29
25	Investigation of fiber Bragg grating based mode-splitting resonant sensors. Optics Express, 2014, 22, 25371.	1.7	27
26	Sensitive strain measurements with a fiber Bragg-grating ring resonator. Proceedings of SPIE, 2014, , .	0.8	0
27	Thermal and stress influence on performance of SOI racetrack resonator Raman lasers. Journal of Optics (United Kingdom), 2014, 16, 085501.	1.0	3
28	Performance of Bragg grating ring resonator as high sensitivity refractive index sensor. , 2014, , .		0
29	Structural polarization conversion in integrated optical vertically stacked ring resonators. Optics and Laser Technology, 2013, 48, 294-301.	2.2	3
30	Label-free optical resonant sensors for biochemical applications. Progress in Quantum Electronics, 2013, 37, 51-107.	3.5	165
31	Localized strain sensing with fiber Bragg-grating ring cavities. Optics Express, 2013, 21, 29435.	1.7	46
32	Numerical and experimental investigation of an optical high-Q spiral resonator gyroscope. , 2012, , .		13
33	Coupled ring resonators: Physical effects and potential applications. , 2012, , .		1
34	Multiple ring resonators in optical gyroscopes. , 2012, , .		2
35	Phononic and photonic band gap structures: modelling and applications. Physics Procedia, 2010, 3, 357-364.	1.2	77
36	Photonic technologies for angular velocity sensing. Advances in Optics and Photonics, 2010, 2, 370.	12.1	189

#	ARTICLE	IF	CITATIONS
37	Fast light generation through velocity manipulation in two vertically-stacked ring resonators. Optics Express, 2010, 18, 2973.	1.7	35
38	Light manipulation in resonant photonic devices. , 2010, , .		1
39	Optimized Design of Integrated Optical Angular Velocity Sensors Based on a Passive Ring Resonator. Journal of Lightwave Technology, 2009, 27, 2658-2666.	2.7	27
40	Theoretical investigation of two beams optical ring resonators for new generation photonic sensors. , 2009, , .		0
41	Modelling of photonic crystals: A comparison among various analysis methods. , 2008, , .		4
42	Design of passive ring resonators to be used for sensing applications. Journal of the European Optical Society-Rapid Publications, 0, 4, .	0.9	5
43	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, .	0.9	12