

Francesco Dell Olio

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

1,749
citations

22
h-index

40
g-index

92
ext. papers

2,173
ext. citations

3.1
avg, IF

4.96
L-index

#	Paper	IF	Citations
74	Optical sensing by optimized silicon slot waveguides. <i>Optics Express</i> , 2007 , 15, 4977-93	3.3	262
73	Photonic technologies for angular velocity sensing. <i>Advances in Optics and Photonics</i> , 2010 , 2, 370	16.7	151
72	Label-free optical resonant sensors for biochemical applications. <i>Progress in Quantum Electronics</i> , 2013 , 37, 51-107	9.1	134
71	Guided-Wave Optical Biosensors. <i>Sensors</i> , 2007 , 7, 508-536	3.8	100
70	High performance InP ring resonator for new generation monolithically integrated optical gyroscopes. <i>Optics Express</i> , 2013 , 21, 556-64	3.3	82
69	Ammonia Optical Sensing by Microring Resonators. <i>Sensors</i> , 2007 , 7, 2741-2749	3.8	72
68	High performance SOI microring resonator for biochemical sensing. <i>Optics and Laser Technology</i> , 2014 , 59, 60-67	4.2	65
67	Phononic and photonic band gap structures: modelling and applications. <i>Physics Procedia</i> , 2010 , 3, 357-364		64
66	Recent advances in miniaturized optical gyroscopes. <i>Journal of the European Optical Society-Rapid Publications</i> , 2014 , 9,	2.5	62
65	Efficient Chemical Sensing by Coupled Slot SOI Waveguides. <i>Sensors</i> , 2009 , 9, 1012-32	3.8	50
64	A High-Q InP Resonant Angular Velocity Sensor for a Monolithically Integrated Optical Gyroscope. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-19	1.8	45
63	Electromagnetic field photonic sensors. <i>Progress in Quantum Electronics</i> , 2006 , 30, 45-73	9.1	41
62	. <i>IEEE Photonics Journal</i> , 2012 , 4, 1844-1854	1.8	40
61	New ultrasensitive resonant photonic platform for label-free biosensing. <i>Optics Express</i> , 2015 , 23, 28593-604	3.9	33
60	Ultra-high Q/V hybrid cavity for strong light-matter interaction. <i>APL Photonics</i> , 2017 , 2, 086101	5.2	30
59	Advances in Gyroscope Technologies 2011 ,		30
58	Scaling and Optimization of MOS Optical Modulators in Nanometer SOI Waveguides. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 401-408	2.6	28

57	Rigorous design of an ultra-high Q/V photonic/plasmonic cavity to be used in biosensing applications. <i>Optics and Laser Technology</i> , 2016 , 77, 151-161	4.2	26
56	Strongly resonant silicon slot metasurfaces with symmetry-protected bound states in the continuum. <i>Optics Express</i> , 2021 , 29, 10374-10385	3.3	26
55	Fast light generation through velocity manipulation in two vertically-stacked ring resonators. <i>Optics Express</i> , 2010 , 18, 2973-86	3.3	25
54	. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-9	1.8	24
53	Design of an Optical Trapping Device Based on an Ultra-High Q/V Resonant Structure. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-16	1.8	24
52	Graphene-based fine-tunable optical delay line for optical beamforming in phased-array antennas. <i>Applied Optics</i> , 2016 , 55, 4342-9	0.2	20
51	Photonic and Plasmonic Nanotweezing of Nano- and Microscale Particles. <i>Applied Spectroscopy</i> , 2017 , 71, 367-390	3.1	18
50	Design of an ultra-compact graphene-based integrated microphotonic tunable delay line. <i>Optics Express</i> , 2018 , 26, 4593-4604	3.3	18
49	Three-dimensional modelling of scattering loss in InGaAsP/InP and silica-on-silicon bent waveguides. <i>Journal of the European Optical Society-Rapid Publications</i> , 2009 , 4,	2.5	17
48	Ultra-Compact Tuneable Notch Filter Using Silicon Photonic Crystal Ring Resonator. <i>Journal of Lightwave Technology</i> , 2019 , 37, 2970-2980	4	16
47	Theoretical investigation of indium phosphide buried ring resonators for new angular velocity sensors. <i>Optical Engineering</i> , 2013 , 52, 024601	1.1	16
46	Fully three-dimensional accurate modeling of scattering loss in optical waveguides. <i>Optical and Quantum Electronics</i> , 2009 , 41, 285-298	2.4	16
45	Photonics in Space 2016 ,		15
44	Monitoring of individual bacteria using electro-photonic traps. <i>Biomedical Optics Express</i> , 2019 , 10, 3463-3471	3.9	15
43	Comprehensive mathematical modelling of ultra-high Q grating-assisted ring resonators. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 035802	1.7	13
42	Design of a New Ultracompact Resonant Plasmonic Multi-Analyte Label-Free Biosensing Platform. <i>Sensors</i> , 2017 , 17,	3.8	11
41	Design, fabrication, and preliminary test results of a new InGaAsP/InP high-Q ring resonator for gyro applications 2012 ,		10
40	Numerical and experimental investigation of an optical high-Q spiral resonator gyroscope 2012 ,		10

39	New miniaturized exhaled nitric oxide sensor based on a high Q/V mid-infrared 1D photonic crystal cavity. <i>Applied Optics</i> , 2015 , 54, 2208-17	1.7	9
38	Silicon photonic biosensors. <i>IET Optoelectronics</i> , 2019 , 13, 48-54	1.5	8
37	System test of an optoelectronic gyroscope based on a high Q -factor InP ring resonator. <i>Optical Engineering</i> , 2014 , 53, 127104	1.1	8
36	Theoretical investigation on the scale factor of a triple ring cavity to be used in frequency sensitive resonant gyroscopes. <i>Journal of the European Optical Society-Rapid Publications</i> , 2013 , 8,	2.5	8
35	Quality factor and finesse optimization in buried InGaAsP/InP ring resonators. <i>Journal of the European Optical Society-Rapid Publications</i> , 2009 , 4,	2.5	8
34	Analogue of electromagnetically induced transparency in square slotted silicon metasurfaces supporting bound states in the continuum.. <i>Optics Express</i> , 2022 , 30, 4615-4630	3.3	8
33	Measured radiation effects on InGaAsP/InP ring resonators for space applications. <i>Optics Express</i> , 2019 , 27, 24434-24444	3.3	8
32	Design of a high-performance optical tweezer for nanoparticle trapping. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	8
31	Rigorous model for the design of ultra-high Q-factor resonant cavities 2016 ,		6
30	Modeling and Design of a New Flexible Graphene-on-Silicon Schottky Junction Solar Cell. <i>Electronics (Switzerland)</i> , 2016 , 5, 73	2.6	6
29	Integrated Photonic and Plasmonic Resonant Devices for Label-Free Biosensing and Trapping at the Nanoscale. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800561	1.6	6
28	Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-11	1.8	5
27	New microwave photonic filter based on a ring resonator including a photonic crystal structure 2017 ,		4
26	Micro-racetrack coupled-resonator optical waveguides in silicon photonic wires. <i>Journal of Optics</i> , 2008 , 10, 064003		4
25	Photonic technologies for liquid biopsies: recent advances and open research challenges.. <i>Laser and Photonics Reviews</i> , 2021 , 15,	8.3	4
24	Novel graphene-based photonic devices for efficient light control and manipulation 2015 ,		3
23	Design of a new photonic/plasmonic microcavity allowing a strong light-matter interaction 2014 ,		3
22	Resonant optical gyro: Monolithic vs. hybrid integration 2013 ,		3

21	Planar photonic gyroscopes for satellite attitude control 2017 ,		3
20	Effect of fabrication tolerances on the performance of two-dimensional polymer photonic crystal channel drop filters: a theoretical investigation based on the finite element method. <i>Optical Engineering</i> , 2013 , 52, 097104	1.1	3
19	Liquid Biopsies: Photonic Technologies for Liquid Biopsies: Recent Advances and Open Research Challenges (Laser Photonics Rev. 15(1)/2021). <i>Laser and Photonics Reviews</i> , 2021 , 15, 2170012	8.3	3
18	. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-11	1.8	3
17	Multiple ring resonators in optical gyroscopes 2012 ,		2
16	Simulation of a high speed interferometer optical modulator in polymer materials. <i>Journal of Computational Electronics</i> , 2007 , 6, 297-300	1.8	2
15	Multiplexed Liquid Biopsy and Tumor Imaging Using Surface-Enhanced Raman Scattering. <i>Biosensors</i> , 2021 , 11,	5.9	2
14	Backscattering noise control in the readout circuit of innovative optoelectronic resonant gyroscopes 2014 ,		1
13	Hybrid photonic-plasmonic microcavities for Q/V ratio enhancement 2014 ,		1
12	Photonic, plasmonic and hybrid nanotweezers for single nanoparticle trapping and manipulation 2017 ,		1
11	Coupled ring resonators: Physical effects and potential applications 2012 ,		1
10	Light manipulation in resonant photonic devices 2010 ,		1
9	Modeling and design of a microdisk photonic sensor for biological applications 2007 ,		1
8	Sensitivity Analysis of Rib Waveguides for Integrated Optical Sensors 2007 ,		1
7	Low-Cost Wireless Wearable System for Posture Monitoring. <i>Electronics (Switzerland)</i> , 2021 , 10, 2569	2.6	1
6	Innovative Integrated-Optic Resonator for Angular Rate Sensing: Design and Experimental Characterization. <i>Lecture Notes in Electrical Engineering</i> , 2011 , 345-349	0.2	1
5	Resonant nanoplasmonic platform for fast and early diagnosis of cardiovascular diseases 2016 ,		1
4	New microphotonic resonant devices for label-free biosensing 2016 ,		1

3	All-Dielectric Metasurface Based on Complementary Split-Ring Resonators for Refractive Index Sensing. <i>Photonics</i> , 2022 , 9, 130	2.2	0
2	Electro-Photonic Chip-Scale Microsystem for Label-Free Single Bacteria Monitoring. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 53-58	0.2	
1	Design of a Label-Free Multiplexed Biosensing Platform Based on an Ultracompact Plasmonic Resonant Cavity. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 263-267	0.2	