

Ilaria Cristiani

List of Publications by Year in descending order

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59
papers

1,985
citations

279798

23
h-index

254184

43
g-index

60
all docs

60
docs citations

60
times ranked

1950
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on multimode photonics. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 083001.	2.2	27
2	Yield stress in a flash: investigation of nonlinearity and yielding in soft materials with an optofluidic microrheometer. <i>Soft Matter</i> , 2021, 17, 3105-3112.	2.7	4
3	Integrated Optofluidic Chip for Oscillatory Microrheology. <i>Scientific Reports</i> , 2020, 10, 5831.	3.3	12
4	Characterisation of a DNA hydrogel viscosity by an integrated optofluidic microrheometer. , 2019, , .		0
5	Newtonian to non-newtonian fluid transition of a model transient network. <i>Soft Matter</i> , 2018, 14, 3288-3295.	2.7	17
6	Optofluidic Devices for Mechanical Probing and Imaging of Cells by Laser Light. , 2018, , .		0
7	High-efficiency grating-couplers: demonstration of a new design strategy. <i>Scientific Reports</i> , 2017, 7, 16670.	3.3	146
8	Group-velocity dispersion in SOI-based channel waveguides with reduced-height. <i>Optics Express</i> , 2017, 25, 9761.	3.4	10
9	Integrated Optofluidic Chip for Low-Volume Fluid Viscosity Measurement. <i>Micromachines</i> , 2017, 8, 65.	2.9	9
10	Low-Loss Micro-Resonator Filters Fabricated in Silicon by CMOS-Compatible Lithographic Techniques: Design and Characterization. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 174.	2.5	21
11	Reflector-less Grating-Coupler with a -0.9 dB Efficiency Realized in 260-nm Silicon-On-Insulator Platform. , 2017, , .		0
12	Numerical and Experimental Study of Optoelectronic Trapping on Iron-Doped Lithium Niobate Substrate. <i>Crystals</i> , 2016, 6, 123.	2.2	30
13	A comprehensive strategy for the analysis of acoustic compressibility and optical deformability on single cells. <i>Scientific Reports</i> , 2016, 6, 23946.	3.3	27
14	Ultra-Compact Amorphous Silicon Waveguide for Wavelength Conversion. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 410-413.	2.5	21
15	Femtosecond laser fabrication of optofluidic devices for single cell manipulation. <i>MATEC Web of Conferences</i> , 2015, 32, 02001.	0.2	0
16	All-silica microfluidic optical stretcher with acoustophoretic prefocusing. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 837-844.	2.2	37
17	Tunable Q-factor silicon microring resonators for ultra-low power parametric processes. <i>Optics Letters</i> , 2015, 40, 1274.	3.3	31
18	Optimising apodized grating couplers in a pure SOI platform to ~05 dB coupling efficiency. <i>Optics Express</i> , 2015, 23, 16289.	3.4	92

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19	Investigation of temperature effect on cell mechanics by optofluidic microchips. Biomedical Optics Express, 2015, 6, 2991.	2.9	16
20	Miniaturized Optical Tweezers Through Fiber-End Microfabrication. Springer Series in Surface Sciences, 2015, , 159-180.	0.3	1
21	Optimizing polarization-diversity couplers for Si-photonics: reaching the ~ 1 dB coupling efficiency threshold. Optics Express, 2014, 22, 14769.	3.4	111
22	Highly reduced iron-doped lithium niobate for optoelectronic tweezers. Applied Physics B: Lasers and Optics, 2013, 113, 191-197.	2.2	32
23	Broad parameter optimization of polarization-diversity 2D grating couplers for silicon photonics. Optics Express, 2013, 21, 21556.	3.4	100
24	Optimizing silicon-on-oxide 2D-grating couplers. , 2013, , .		0
25	Validation and perspectives of a femtosecond laser fabricated monolithic optical stretcher. Biomedical Optics Express, 2012, 3, 2658.	2.9	49
26	Zirconium-doped lithium niobate: photorefractive and electro-optical properties as a function of dopant concentration. Optical Materials Express, 2011, 1, 270.	3.0	31
27	In vitro analysis of low-level laser irradiation on human osteoblast-like cells proliferation. Proceedings of SPIE, 2011, , .	0.8	0
28	Optofluidic chip for single cell trapping and stretching fabricated by a femtosecond laser. Journal of Biophotonics, 2010, 3, 234-243.	2.3	62
29	Optical phase conjugation in phase-modulated transmission systems: experimental comparison of different nonlinearity-compensation methods. Optics Express, 2010, 18, 18119.	3.4	25
30	Soft proton exchanged channel waveguides in congruent lithium tantalate for frequency doubling. Optics Express, 2010, 18, 25967.	3.4	4
31	Characterization of PP-cLT Waveguides for Second-Harmonic-Generation and Wavelength-Conversion in the C + L band of Optical Communications. , 2010, , .		0
32	Merocyanine-540 mediated photodynamic effects on Staphylococcus epidermidis biofilms. , 2009, , .		0
33	Compensation of nonlinear effects in optical communication systems through phase-conjugation. , 2009, , .		1
34	Real-time 100-Gb/s POLMUX RZ-DQPSK Transmission over Uncompensated 500 km of SSMF by Optical Phase Conjugation. , 2009, , .		2
35	Wavelength Conversion of Real-Time 100-Gb/s POLMUX RZ-DQPSK. , 2009, , .		2
36	A Novel Approach to Fiber-Optic Tweezers: Numerical Analysis of the Trapping Efficiency. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 151-157.	2.9	20

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37	Switching time and response to ps optical trigger pulse of all-optical Flip-Flop based on a monolithic semiconductor ring laser. , 2008, , .		1
38	Toluidine Blue-Mediated Photodynamic Effects on Staphylococcal Biofilms. Antimicrobial Agents and Chemotherapy, 2008, 52, 299-305.	3.2	160
39	Numerical and experimental demonstration of a single-fiber probe for optical trapping and analysis. , 2008, , .		0
40	Time-domain response to ps optical pulse trigger of an all-optical flip-flop based on semiconductor ring laser. Proceedings of SPIE, 2008, , .	0.8	2
41	Transmission of a chaos-masked signal with in-line all-optical wavelength conversion. , 2008, , .		0
42	All Optical 3-D Trapping through a Single-Fiber Tweezer. , 2007, , .		1
43	Strongly sublinear growth of the photorefractive effect for increasing pump intensities in doped lithium-niobate crystals. Journal of Applied Physics, 2007, 101, 116105.	2.5	25
44	Linear and nonlinear optical properties of Hafnium-doped lithium-niobate crystals. Optics Express, 2007, 15, 14171.	3.4	40
45	All-Optical Wavelength Conversion of a Chaos Masked Signal. IEEE Photonics Technology Letters, 2007, 19, 1783-1785.	2.5	17
46	Miniaturized all-fibre probe for three-dimensional optical trapping and manipulation. Nature Photonics, 2007, 1, 723-727.	31.4	218
47	Integrated-Fiber-Probe for All Optical 3D Trapping and Manipulation. , 2007, , .		0
48	MICRORAMAN AND PHOTOREFRACTIVITY STUDY OF HAFNIUM-DOPED LITHIUM NIOBATE CRYSTALS. Journal of Nonlinear Optical Physics and Materials, 2006, 15, 9-21.	1.8	8
49	Photorefractivity of Hafnium-doped congruent lithium niobate crystals. Applied Physics Letters, 2005, 86, 131914.	3.3	96
50	Reduced photorefraction in hafnium-doped single-domain and periodically poled lithium niobate crystals. Applied Physics Letters, 2004, 84, 1880-1882.	3.3	98
51	Dispersive wave generation by solitons in microstructured optical fibers. Optics Express, 2004, 12, 124.	3.4	294
52	High-photorefractive resistance of hafnium-doped, single-domain, and periodically-poled lithium niobate crystals. , 2004, , .		1
53	Phase-matched nonlinear interactions in a holey fiber induced by infrared super-continuum generation. Optics Communications, 2003, 215, 191-197.	2.1	29
54	NONLINEAR PROPAGATION OF ULTRASHORT LASER PULSES IN A MICROSTRUCTURED FIBER. Journal of Nonlinear Optical Physics and Materials, 2002, 11, 409-419.	1.8	2

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55	Numerical study of cascaded wavelength conversion in quadratic media. Journal of Optics, 2002, 4, 457-462.	1.5	3
56	Experimental and numerical optimization of a fiber Raman laser. Optics Communications, 2002, 203, 139-144.	2.1	26
57	Ultrashort-pulse investigation of the propagation properties of the LP ₁₁ mode in 155- μ m communication fibers. Optics Letters, 2001, 26, 1758.	3.3	6
58	Nonlinear characterization and modeling of periodically poled lithium niobate waveguides for 1.5- μ m-band cascaded wavelength conversion. Optics Communications, 2001, 187, 263-270.	2.1	14
59	Title is missing!. Journal of Optics, 2000, 2, 260-267.	1.5	1