

Ilaria Cristiani

List of Publications by Year in descending order

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Version: 2024-02-01

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	Dispersive wave generation by solitons in microstructured optical fibers. <i>Optics Express</i> , 2004, 12, 124.	3.4	294
2	Miniaturized all-fibre probe for three-dimensional optical trapping and manipulation. <i>Nature Photonics</i> , 2007, 1, 723-727.	31.4	218
3	Toluidine Blue-Mediated Photodynamic Effects on Staphylococcal Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 299-305.	3.2	160
4	High-efficiency grating-couplers: demonstration of a new design strategy. <i>Scientific Reports</i> , 2017, 7, 16670.	3.3	146
5	Optimizing polarization-diversity couplers for Si-photonics: reaching the ~ 1 dB coupling efficiency threshold. <i>Optics Express</i> , 2014, 22, 14769.	3.4	111
6	Broad parameter optimization of polarization-diversity 2D grating couplers for silicon photonics. <i>Optics Express</i> , 2013, 21, 21556.	3.4	100
7	Reduced photorefraction in hafnium-doped single-domain and periodically poled lithium niobate crystals. <i>Applied Physics Letters</i> , 2004, 84, 1880-1882.	3.3	98
8	Photorefractivity of Hafnium-doped congruent lithium niobate crystals. <i>Applied Physics Letters</i> , 2005, 86, 131914.	3.3	96
9	Optimising apodized grating couplers in a pure SOI platform to ~ 0.5 dB coupling efficiency. <i>Optics Express</i> , 2015, 23, 16289.	3.4	92
10	Optofluidic chip for single cell trapping and stretching fabricated by a femtosecond laser. <i>Journal of Biophotonics</i> , 2010, 3, 234-243.	2.3	62
11	Validation and perspectives of a femtosecond laser fabricated monolithic optical stretcher. <i>Biomedical Optics Express</i> , 2012, 3, 2658.	2.9	49
12	Linear and nonlinear optical properties of Hafnium-doped lithium-niobate crystals. <i>Optics Express</i> , 2007, 15, 14171.	3.4	40
13	All-silica microfluidic optical stretcher with acoustophoretic prefocusing. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 837-844.	2.2	37
14	Highly reduced iron-doped lithium niobate for optoelectronic tweezers. <i>Applied Physics B: Lasers and Optics</i> , 2013, 113, 191-197.	2.2	32
15	Zirconium-doped lithium niobate: photorefractive and electro-optical properties as a function of dopant concentration. <i>Optical Materials Express</i> , 2011, 1, 270.	3.0	31
16	Tunable Q-factor silicon microring resonators for ultra-low power parametric processes. <i>Optics Letters</i> , 2015, 40, 1274.	3.3	31
17	Numerical and Experimental Study of Optoelectronic Trapping on Iron-Doped Lithium Niobate Substrate. <i>Crystals</i> , 2016, 6, 123.	2.2	30
18	Phase-matched nonlinear interactions in a holey fiber induced by infrared super-continuum generation. <i>Optics Communications</i> , 2003, 215, 191-197.	2.1	29

#	ARTICLE	IF	CITATIONS
19	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
20	Roadmap on multimode photonics. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 083001.	2.2	27
21	Experimental and numerical optimization of a fiber Raman laser. <i>Optics Communications</i> , 2002, 203, 139-144.	2.1	26
22	Strongly sublinear growth of the photorefractive effect for increasing pump intensities in doped lithium-niobate crystals. <i>Journal of Applied Physics</i> , 2007, 101, 116105.	2.5	25
23	Optical phase conjugation in phase-modulated transmission systems: experimental comparison of different nonlinearity-compensation methods. <i>Optics Express</i> , 2010, 18, 18119.	3.4	25
24	Ultra-Compact Amorphous Silicon Waveguide for Wavelength Conversion. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 410-413.	2.5	21
25	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
26	A Novel Approach to Fiber-Optic Tweezers: Numerical Analysis of the Trapping Efficiency. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 151-157.	2.9	20
27	All-Optical Wavelength Conversion of a Chaos Masked Signal. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1783-1785.	2.5	17
28	Newtonian to non-newtonian fluid transition of a model transient network. <i>Soft Matter</i> , 2018, 14, 3288-3295.	2.7	17
29	Investigation of temperature effect on cell mechanics by optofluidic microchips. <i>Biomedical Optics Express</i> , 2015, 6, 2991.	2.9	16
30	Nonlinear characterization and modeling of periodically poled lithium niobate waveguides for 1.5- $\hat{1}$ / ₄ m-band cascaded wavelength conversion. <i>Optics Communications</i> , 2001, 187, 263-270.	2.1	14
31	Integrated Optofluidic Chip for Oscillatory Microrheology. <i>Scientific Reports</i> , 2020, 10, 5831.	3.3	12
32	Group-velocity dispersion in SOI-based channel waveguides with reduced-height. <i>Optics Express</i> , 2017, 25, 9761.	3.4	10
33	Integrated Optofluidic Chip for Low-Volume Fluid Viscosity Measurement. <i>Micromachines</i> , 2017, 8, 65.	2.9	9
34	MICRORAMAN AND PHOTOREFRACTIVITY STUDY OF HAFNIUM-DOPED LITHIUM NIOBATE CRYSTALS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2006, 15, 9-21.	1.8	8
35	Ultrashort-pulse investigation of the propagation properties of the LP ₁₁ mode in 155- $\hat{1}$ / ₄ m communication fibers. <i>Optics Letters</i> , 2001, 26, 1758.	3.3	6
36	Soft proton exchanged channel waveguides in congruent lithium tantalate for frequency doubling. <i>Optics Express</i> , 2010, 18, 25967.	3.4	4

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37	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
38	Numerical study of cascaded wavelength conversion in quadratic media. <i>Journal of Optics</i> , 2002, 4, 457-462.	1.5	3
39	NONLINEAR PROPAGATION OF ULTRASHORT LASER PULSES IN A MICROSTRUCTURED FIBER. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2002, 11, 409-419.	1.8	2
40	Time-domain response to ps optical pulse trigger of an all-optical flip-flop based on semiconductor ring laser. <i>Proceedings of SPIE</i> , 2008, , .	0.8	2
41	Real-time 100-Gb/s POLMUX RZ-DQPSK Transmission over Uncompensated 500 km of SSMF by Optical Phase Conjugation. , 2009, , .		2
42	Wavelength Conversion of Real-Time 100-Gb/s POLMUX RZ-DQPSK. , 2009, , .		2
43	Title is missing!. <i>Journal of Optics</i> , 2000, 2, 260-267.	1.5	1
44	High-photorefractive resistance of hafnium-doped, single-domain, and periodically-poled lithium niobate crystals. , 2004, , .		1
45	All Optical 3-D Trapping through a Single-Fiber Tweezer. , 2007, , .		1
46	Switching time and response to ps optical trigger pulse of all-optical Flip-Flop based on a monolithic semiconductor ring laser. , 2008, , .		1
47	Compensation of nonlinear effects in optical communication systems through phase-conjugation. , 2009, , .		1
48	Miniaturized Optical Tweezers Through Fiber-End Microfabrication. <i>Springer Series in Surface Sciences</i> , 2015, , 159-180.	0.3	1
49	Numerical and experimental demonstration of a single-fiber probe for optical trapping and analysis. , 2008, , .		0
50	Merocyanine-540 mediated photodynamic effects on <i>Staphylococcus epidermidis</i> biofilms. , 2009, , .		0
51	In vitro analysis of low-level laser irradiation on human osteoblast-like cells proliferation. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
52	Optimizing silicon-on-oxide 2D-grating couplers. , 2013, , .		0
53	Femtosecond laser fabrication of optofluidic devices for single cell manipulation. <i>MATEC Web of Conferences</i> , 2015, 32, 02001.	0.2	0
54	Characterisation of a DNA hydrogel viscosity by an integrated optofluidic microrheometer. , 2019, , .		0

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55	Integrated-Fiber-Probe for All Optical 3D Trapping and Manipulation. , 2007, , .		0
56	Transmission of a chaos-masked signal with in-line all-optical wavelength conversion. , 2008, , .		0
57	Characterization of PP-cLT Waveguides for Second-Harmonic-Generation and Wavelength-Conversion in the C + L band of Optical Communications. , 2010, , .		0
58	Reflector-less Grating-Coupler with a -0.9 dB Efficiency Realized in 260-nm Silicon-On-Insulator Platform. , 2017, , .		0
59	Optofluidic Devices for Mechanical Probing and Imaging of Cells by Laser Light. , 2018, , .		0