Francesca Bragheri

List of Publications by Year
in descending order

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93	2,199	236612	223531
papers	citations	25 h-index	46 g-index

95	95	95	2223
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Miniaturized all-fibre probe for three-dimensional optical trapping and manipulation. Nature Photonics, 2007, 1, 723-727.	15.6	218
2	Conical Emission, Pulse Splitting, and X-Wave Parametric Amplification in Nonlinear Dynamics of Ultrashort Light Pulses. Physical Review Letters, 2006, 96, 193901.	2.9	164
3	Toluidine Blue-Mediated Photodynamic Effects on Staphylococcal Biofilms. Antimicrobial Agents and Chemotherapy, 2008, 52, 299-305.	1.4	160
4	Femtosecond laser fabricated monolithic chip for optical trapping and stretching of single cells. Optics Express, 2010, 18, 4679.	1.7	148
5	Integrated microfluidic device for single-cell trapping and spectroscopy. Scientific Reports, 2013, 3, 1258.	1.6	127
6	Far-field spectral characterization of conical emission and filamentation in Kerr media. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 862.	0.9	92
7	Optofluidic integrated cell sorter fabricated by femtosecond lasers. Lab on A Chip, 2012, 12, 3779.	3.1	86
8	Particle focusing by 3D inertial microfluidics. Microsystems and Nanoengineering, 2017, 3, 17027.	3.4	76
9	Straightforward 3D hydrodynamic focusing in femtosecond laser fabricated microfluidic channels. Lab on A Chip, 2014, 14, 1826-1833.	3.1	69
10	Selective plane illumination microscopy on a chip. Lab on A Chip, 2016, 16, 1556-1560.	3.1	67
11	Optofluidic chip for single cell trapping and stretching fabricated by a femtosecond laser. Journal of Biophotonics, 2010, 3, 234-243.	1.1	62
12	An integrated optofluidic device for single-cell sorting driven by mechanical properties. Lab on A Chip, 2015, 15, 1262-1266.	3.1	55
13	Microfluidic Based Optical Microscopes on Chip. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 987-996.	1.1	53
14	From X- to O-shaped spatiotemporal spectra of light filaments in water. Optics Letters, 2005, 30, 3398.	1.7	50
15	Validation and perspectives of a femtosecond laser fabricated monolithic optical stretcher. Biomedical Optics Express, 2012, 3, 2658.	1.5	49
16	A Comprehensive Review of Optical Stretcher for Cell Mechanical Characterization at Single-Cell Level. Micromachines, 2016, 7, 90.	1.4	45
17	Competition between phase-matching and stationarity in Kerr-driven optical pulse filamentation. Physical Review E, 2006, 74, 047603.	0.8	41
18	All-silica microfluidic optical stretcher with acoustophoretic prefocusing. Microfluidics and Nanofluidics, 2015, 19, 837-844.	1.0	37

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19	Particle Manipulation by Optical Forces in Microfluidic Devices. Micromachines, 2018, 9, 200.	1.4	36
20	High-throughput 3D imaging of single cells with light-sheet fluorescence microscopy on chip. Biomedical Optics Express, 2020, 11, 4397.	1.5	35
21	Complete retrieval of the field of ultrashort optical pulses using the angle-frequency spectrum. Optics Letters, 2008, 33, 2952.	1.7	33
22	Conical-emission and shock-front dynamics in femtosecond laser-pulse filamentation. Physical Review A, 2007, 76, .	1.0	32
23	Laser printed nano-gratings: orientation and period peculiarities. Scientific Reports, 2017, 7, 39989.	1.6	29
24	A comprehensive strategy for the analysis of acoustic compressibility and optical deformability on single cells. Scientific Reports, 2016, 6, 23946.	1.6	27
25	Kerr-induced spontaneous Bessel beam formation in the regime of strong two-photon absorption. Optics Express, 2008, 16, 8213.	1.7	25
26	An optofluidic constriction chip for monitoring metastatic potential and drug response of cancer cells. Integrative Biology (United Kingdom), 2015, 7, 477-484.	0.6	24
27	Characterization of conical emission of light filaments in media with anomalous dispersion. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 581.	0.9	23
28	Design and optimization of a reflection-based fiber-optic tweezers. Optics Express, 2008, 16, 17647.	1.7	22
29	Experimental energy-density flux characterization of ultrashort laser pulse filaments. Optics Express, 2009, 17, 8193.	1.7	22
30	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.	1.9	20
31	Newtonian to non-newtonian fluid transition of a model transient network. Soft Matter, 2018, 14, 3288-3295.	1.2	17
32	Effects of Thermal Annealing on Femtosecond Laser Micromachined Glass Surfaces. Micromachines, 2021, 12, 180.	1.4	17
33	Few-cycle laser-pulse collapse in Kerr media: The role of group-velocity dispersion and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="sans-serif">X</mml:mi></mml:math>-wave formation. Physical Review A, 2008, 78, .	1.0	16
34	Photodynamic Action of Merocyanine 540 on Staphylococcus Epidermidis Biofilms. International Journal of Artificial Organs, 2008, 31, 848-857.	0.7	16
35	Investigation of temperature effect on cell mechanics by optofluidic microchips. Biomedical Optics Express, 2015, 6, 2991.	1.5	16
36	Optofluidic light modulator integrated in lab-on-a-chip. Optics Express, 2017, 25, 7313.	1.7	16

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37	Automatic imaging of Drosophila embryos with light sheet fluorescence microscopy on chip. Journal of Biophotonics, 2021, 14, e202000396.	1.1	16
38	Experimental study of the optical forces exerted by a Gaussian beam within the Rayleigh range. Journal of Optics (United Kingdom), 2011, 13, 075712.	1.0	15
39	Femtosecond-laser-written optofluidics in alumino-borosilicate glass. Optical Materials: X, 2019, 4, 100042.	0.3	15
40	Integrated Optofluidic Chip for Oscillatory Microrheology. Scientific Reports, 2020, 10, 5831.	1.6	12
41	Optical Bloch-mode-induced quasi phase matching of quadratic interactions in one-dimensional photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 296.	0.9	11
42	All-Optical Directional Switching in Bistable Semiconductor-Ring Lasers. IEEE Journal of Quantum Electronics, 2013, 49, 877-885.	1.0	11
43	Nanomechanical probing of soft matter through hydrophobic AFM tips fabricated by two-photon polymerization. Nanotechnology, 2016, 27, 155702.	1.3	9
44	Integrated Optofluidic Chip for Low-Volume Fluid Viscosity Measurement. Micromachines, 2017, 8, 65.	1.4	9
45	Time-gated spectral characterization of ultrashort laser pulses. Optics Communications, 2005, 256, 166-170.	1.0	8
46	Dynamic operation of all-optical Flip-Flop based on a monolithic semiconductor ring laser. , 2008, , .		8
47	Microfluidics. , 2016, , 310-334.		8
48	Microfluidics. , 2020, , 493-526.		8
49	Optofluidics for Biophotonic Applications. IEEE Photonics Journal, 2012, 4, 596-600.	1.0	7
50	Localization of light and second-order nonlinearity enhancement in weakly disordered one-dimensional photonic crystals. Physical Review E, 2005, 71, 057602.	0.8	6
51	Ferrofluid-based optofluidic switch using femtosecond laser-micromachined waveguides. Applied Optics, 2015, 54, 1420.	0.9	6
52	Effects of random and systematic perturbations in a one-dimensional photonic crystal wavelength converter. Physical Review E, 2004, 70, 017601.	0.8	5
53	Yield stress â€œin a flashâ€• investigation of nonlinearity and yielding in soft materials with an optofluidic microrheometer. Soft Matter, 2021, 17, 3105-3112.	1.2	4
54	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

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55	Optical fiber tweezers fabricated by two photon lithography. , 2011, , .		2
56	Hydrodynamic lift for single cell manipulation in a femtosecond laser fabricated optofluidic chip. Optofluidics, Microfluidics and Nanofluidics, 2017, 4, .	0.5	2
57	Switching time and response to ps optical trigger pulse of all-optical Flip-Flop based on a monolithic semiconductor ring laser. , 2008, , .		1
58	Single cell trapping and stretching in an optofluidic chip fabricated by femtosecond laser micromachining. , 2011, , .		1
59	Sorting on the basis of deformability of single cells in a femtosecond laser fabricated optofluidic device. , 2015, , .		1
60	Projecting light beams with 3D waveguide arrays. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 014002.	0.6	1
61	Miniaturized Optical Tweezers Through Fiber-End Microfabrication. Springer Series in Surface Sciences, 2015, , 159-180.	0.3	1
62	Laser-Assisted Etching of EagleXG Glass by Irradiation at Low Pulse-Repetition Rate. Applied Sciences (Switzerland), 2022, 12, 948.	1.3	1
63	Time-gated angular-spectrum characterization of fs-beam filamentation in water. , 0, , .		0
64	Full Three Dimensional Intensity-and-Phase Retrieval of Arbitrarily Complex Ultrashort Laser Pulses. , 2007, , .		0
65	Optically Addressable Bistable Memory based on Semiconductor Ring Lasers: Experimental Results. , 2007, , .		0
66	Numerical and experimental demonstration of a single-fiber probe for optical trapping and analysis. , 2008, , .		0
67	Ultrafast all-optical switching of bistable Semiconductor Ring Lasers. , 2009, , .		0
68	Merocyanine-540 mediated photodynamic effects on Staphylococcus epidermidis biofilms. , 2009, , .		0
69	Impact of misfit dislocations on wavefront distortion in Si/SiGe/Si optical waveguides. Optics Communications, 2009, 282, 4716-4722.	1.0	0
70	All-optical Set-Reset Flip-Flop based on semiconductor ring laser: Ultrafast response and error-free Bit-Error-Rate operation. , 2009, , .		0
71	Trapping and Stretching of Single Cells in an Optofluidic Chip Fabricated by a Femtosecond Laser. , 2010, , .		0
72	Dual-beam optical trapping of cells in an optofluidic device fabricated by femtosecond lasers. Proceedings of SPIE, 2010, , .	0.8	0

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73	In vitro analysis of low-level laser irradiation on human osteoblast-like cells proliferation. Proceedings of SPIE, 2011, , .	0.8	0
74	Single cell trapping and stretching in a femtosecond laser fabricated optofluidic chip. , 2011, , .		0
75	Optical manipulation of single cells in femtosecond laser fabricated lab-on-chip. , 2013, , .		0
76	An integrated fluorescence activated cell sorter fabricated by femtosecond laser micromachining. MATEC Web of Conferences, 2013, 8, 05007.	0.1	0
77	Monolithic cell counter based on 3D hydrodynamic focusing in microfluidic channels. Proceedings of SPIE, 2014, , .	0.8	0
78	Femtosecond laser fabricated microfluorescence-activated cell sorter for single cell recovery. , 2014, , .		0
79	Femtosecond laser fabrication of optofluidic devices for single cell manipulation. MATEC Web of Conferences, 2015, 32, 02001.	0.1	0
80	Adaptable acylindrical microlenses fabricated by femtosecond laser micromachining. , 2015, , .		0
81	A 3D particle focusing device based on tightly curving 3D microchannels. Proceedings of SPIE, 2017, , .	0.8	0
82	Automated imaging of cellular spheroids with selective plane illumination microscopy on a chip (Conference Presentation). , 2017, , .		0
83	Rheological study of a DNA transient network by optophoresis. , 2017, , .		0
84	A micro-opto-acousto-fluidic chip for single cell mechanics evaluation. , 2017, , .		0
85	Dual-Color Fluorescent Microscope on Chip for 3D Imaging of Single Cells. , 2019, , .		0
86	Viscoelasticity Measurements by an Optofluidic Micro-Rheometer. , 2019, , .		0
87	Optofluidic lab-on-chips for high throughput 3D imaging of cells and tissues. EPJ Web of Conferences, 2019, 215, 11002.	0.1	0
88	Characterisation of a DNA hydrogel viscosity by an integrated optofluidic microrheometer. , 2019, , .		0
89	Shocked-X-Wave Dynamics in Fs Laser Pulse Filamentation. , 2006, , .		0
90	Single-cell fluorescence spectroscopy and trapping by microtweezers integrated in a microfluidic circuit. , 2012, , .		0

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91	Biophotonic Device for On-Chip Trapping and Spectroscopic Analysis. , 2013, , .		0
92	Optofluidic Devices for Mechanical Probing and Imaging of Cells by Laser Light. , 2018, , .		0
93	Editorial for the Special Issue on New Trends and Applications in Femtosecond Laser Micromachining. Micromachines, 2022, 13, 150.	1.4	0