

Roberto Osellame

List of Publications by Year in descending order

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438
papers

13,521
citations

17405

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h-index

28224

105
g-index

447
all docs

447
docs citations

447
times ranked

9361
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated multimode interferometers with arbitrary designs for photonic boson sampling. Nature Photonics, 2013, 7, 545-549.	15.6	528
2	Two-Particle Bosonic-Fermionic Quantum Walk via Integrated Photonics. Physical Review Letters, 2012, 108, 010502.	2.9	468
3	Mode matching in multiresonant plasmonic nanoantennas for enhanced second harmonic generation. Nature Nanotechnology, 2015, 10, 412-417.	15.6	421
4	Anderson localization of entangled photons in an integrated quantum walk. Nature Photonics, 2013, 7, 322-328.	15.6	372
5	Femtosecond writing of active optical waveguides with astigmatically shaped beams. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1559.	0.9	341
6	Micromachining of photonic devices by femtosecond laser pulses. Journal of Optics, 2009, 11, 013001.	1.5	283
7	Integrated photonic quantum gates for polarization qubits. Nature Communications, 2011, 2, 566.	5.8	251
8	Femtosecond laser microstructuring: an enabling tool for optofluidic lab-on-a-chips. Laser and Photonics Reviews, 2011, 5, 442-463.	4.4	250
9	Experimental validation of photonic boson sampling. Nature Photonics, 2014, 8, 615-620.	15.6	244
10	Polarization Entangled State Measurement on a Chip. Physical Review Letters, 2010, 105, 200503.	2.9	216
11	Femtosecond Laser Micromachining. Topics in Applied Physics, 2012, , .	0.4	205
12	Femtosecond micromachining of symmetric waveguides at 15 μm by astigmatic beam focusing. Optics Letters, 2002, 27, 1938.	1.7	191
13	Three-dimensional Mach-Zehnder interferometer in a microfluidic chip for spatially-resolved label-free detection. Lab on A Chip, 2010, 10, 1167.	3.1	184
14	Experimental scattershot boson sampling. Science Advances, 2015, 1, e1400255.	4.7	184
15	Er:Yb-doped waveguide laser fabricated by femtosecond laser pulses. Optics Letters, 2004, 29, 2626.	1.7	175
16	Femtosecond laser ablation of polymeric substrates for the fabrication of microfluidic channels. Applied Surface Science, 2011, 257, 6243-6250.	3.1	156
17	Three-dimensional femtosecond laser nanolithography of crystals. Nature Photonics, 2019, 13, 105-109.	15.6	156
18	Femtosecond laser fabricated monolithic chip for optical trapping and stretching of single cells. Optics Express, 2010, 18, 4679.	1.7	148

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19	Three-photon bosonic coalescence in an integrated tritter. Nature Communications, 2013, 4, 1606.	5.8	139
20	Integrated three-dimensional filter separates nanoscale from microscale elements in a microfluidic chip. Lab on A Chip, 2012, 12, 1135.	3.1	137
21	Three-dimensional femtosecond laser processing for lab-on-a-chip applications. Nanophotonics, 2018, 7, 613-634.	2.9	134
22	Integration of optical waveguides and microfluidic channels both fabricated by femtosecond laser irradiation. Applied Physics Letters, 2007, 90, 231118.	1.5	133
23	Three-dimensional structural niches engineered via two-photon laser polymerization promote stem cell homing. Acta Biomaterialia, 2013, 9, 4579-4584.	4.1	132
24	Photonic Realization of the Quantum Rabi Model. Physical Review Letters, 2012, 108, 163601.	2.9	130
25	Integration of femtosecond laser written optical waveguides in a lab-on-chip. Lab on A Chip, 2009, 9, 91-96.	3.1	119
26	Fractional Bloch oscillations in photonic lattices. Nature Communications, 2013, 4, 1555.	5.8	119
27	Measuring protein concentration with entangled photons. Applied Physics Letters, 2012, 100, .	1.5	116
28	Optical properties of waveguides written by a 26 MHz stretched cavity Ti:sapphire femtosecond oscillator. Optics Express, 2005, 13, 612.	1.7	115
29	Rotated waveplates in integrated waveguide optics. Nature Communications, 2014, 5, 4249.	5.8	111
30	Surface Properties of Femtosecond Laser Ablated PMMA. ACS Applied Materials & Interfaces, 2010, 2, 2377-2384.	4.0	109
31	1.5 μ m single longitudinal mode waveguide laser fabricated by femtosecond laser writing. Optics Express, 2007, 15, 3190.	1.7	107
32	Quantitative Phase Microscopy of microstructures with extended measurement range and correction of chromatic aberrations by multiwavelength digital holography. Optics Express, 2007, 15, 14591.	1.7	107
33	Fabrication of long microchannels with circular cross section using astigmatically shaped femtosecond laser pulses and chemical etching. Applied Physics Letters, 2006, 88, 191107.	1.5	106
34	Two straightforward methods for the measurement of optical losses in planar waveguides. Review of Scientific Instruments, 2002, 73, 1117-1120.	0.6	105
35	Suppression law of quantum states in a 3D photonic fast Fourier transform chip. Nature Communications, 2016, 7, 10469.	5.8	105
36	Femtosecond-irradiation-induced refractive-index changes and channel waveguiding in bulk Ti3+:Sapphire. Applied Physics Letters, 2004, 85, 1122-1124.	1.5	104

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37	Thermally reconfigurable quantum photonic circuits at telecom wavelength by femtosecond laser micromachining. <i>Light: Science and Applications</i> , 2015, 4, e354-e354.	7.7	103
38	Two-Photon Laser Polymerization: From Fundamentals to Biomedical Application in Tissue Engineering and Regenerative Medicine. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012, 10, 56-66.	0.7	102
39	Shape control of microchannels fabricated in fused silica by femtosecond laser irradiation and chemical etching. <i>Optics Express</i> , 2009, 17, 8685.	1.7	98
40	Experimental perfect state transfer of an entangled photonic qubit. <i>Nature Communications</i> , 2016, 7, 11339.	5.8	96
41	Diamond photonics platform enabled by femtosecond laser writing. <i>Scientific Reports</i> , 2016, 6, 35566.	1.6	96
42	Femtosecond laser writing of waveguides in periodically poled lithium niobate preserving the nonlinear coefficient. <i>Applied Physics Letters</i> , 2007, 90, 241107.	1.5	94
43	Observation of Surface States with Algebraic Localization. <i>Physical Review Letters</i> , 2013, 111, 220403.	2.9	93
44	Quantum interference of topological states of light. <i>Science Advances</i> , 2018, 4, eaat3187.	4.7	93
45	High refractive index contrast in fused silica waveguides by tightly focused, high-repetition rate femtosecond laser. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2387-2391.	1.5	92
46	Optical waveguide writing with a diode-pumped femtosecond oscillator. <i>Optics Letters</i> , 2004, 29, 1900.	1.7	91
47	Passive mode locking by carbon nanotubes in a femtosecond laser written waveguide laser. <i>Applied Physics Letters</i> , 2006, 89, 231115.	1.5	91
48	Waveguide lasers in the C-band fabricated by laser inscription with a compact femtosecond oscillator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006, 12, 277-285.	1.9	90
49	Imaging of Bloch oscillations in erbium-doped curved waveguide arrays. <i>Optics Letters</i> , 2006, 31, 1651.	1.7	88
50	Quantum interferometry with three-dimensional geometry. <i>Scientific Reports</i> , 2012, 2, 862.	1.6	87
51	Optofluidic integrated cell sorter fabricated by femtosecond lasers. <i>Lab on A Chip</i> , 2012, 12, 3779.	3.1	86
52	C-band waveguide amplifier produced by femtosecond laser writing. <i>Optics Express</i> , 2005, 13, 5976.	1.7	83
53	Er:Yb-doped oxyfluoride silicate glass waveguide amplifier fabricated using femtosecond laser inscription. <i>Applied Physics Letters</i> , 2007, 90, 131102.	1.5	82
54	Quantum Storage of Frequency-Multiplexed Heralded Single Photons. <i>Physical Review Letters</i> , 2019, 123, 080502.	2.9	81

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55	Roadmap for optofluidics. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 093003.	1.0	78
56	Particle focusing by 3D inertial microfluidics. <i>Microsystems and Nanoengineering</i> , 2017, 3, 17027.	3.4	76
57	Supercontinuum generation in an ultrafast laser inscribed chalcogenide glass waveguide. <i>Optics Express</i> , 2007, 15, 15776.	1.7	75
58	Path-polarization hyperentangled and cluster states of photons on a chip. <i>Light: Science and Applications</i> , 2016, 5, e16064-e16064.	7.7	73
59	Dynamic band collapse in photonic graphene. <i>New Journal of Physics</i> , 2013, 15, 013012.	1.2	72
60	Fast escape of a quantum walker from an integrated photonic maze. <i>Nature Communications</i> , 2016, 7, 11682.	5.8	72
61	Femtosecond laser written optical waveguide amplifier in phospho-tellurite glass. <i>Optics Express</i> , 2010, 18, 20289.	1.7	70
62	Straightforward 3D hydrodynamic focusing in femtosecond laser fabricated microfluidic channels. <i>Lab on A Chip</i> , 2014, 14, 1826-1833.	3.1	69
63	Selective plane illumination microscopy on a chip. <i>Lab on A Chip</i> , 2016, 16, 1556-1560.	3.1	67
64	Integrated sources of entangled photons at the telecom wavelength in femtosecond-laser-written circuits. <i>Optica</i> , 2018, 5, 311.	4.8	67
65	General Rules for Bosonic Bunching in Multimode Interferometers. <i>Physical Review Letters</i> , 2013, 111, 130503.	2.9	64
66	Experimental statistical signature of many-body quantum interference. <i>Nature Photonics</i> , 2018, 12, 173-178.	15.6	63
67	Laser-written integrated platform for quantum storage of heralded single photons. <i>Optica</i> , 2018, 5, 934.	4.8	63
68	Optical gain in Er-Yb doped waveguides fabricated by femtosecond laser pulses. <i>Electronics Letters</i> , 2002, 38, 964.	0.5	62
69	Optofluidic chip for single cell trapping and stretching fabricated by a femtosecond laser. <i>Journal of Biophotonics</i> , 2010, 3, 234-243.	1.1	62
70	Experimental photonic quantum memristor. <i>Nature Photonics</i> , 2022, 16, 318-323.	15.6	62
71	Experimental multiphase estimation on a chip. <i>Optica</i> , 2019, 6, 288.	4.8	60
72	Integrated waveguides and deterministically positioned nitrogen vacancy centers in diamond created by femtosecond laser writing. <i>Optics Letters</i> , 2018, 43, 3586.	1.7	59

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73	Integrated Optical Memory Based on Laser-Written Waveguides. <i>Physical Review Applied</i> , 2016, 5, .	1.5	58
74	Femtosecond laser microstructuring for polymeric lab-on-a-chips. <i>Journal of Biophotonics</i> , 2012, 5, 687-702.	1.1	56
75	Particle Statistics Affects Quantum Decay and Fano Interference. <i>Physical Review Letters</i> , 2015, 114, 090201.	2.9	56
76	Symmetric polarization-insensitive directional couplers fabricated by femtosecond laser writing. <i>Optics Express</i> , 2018, 26, 15101.	1.7	56
77	Active waveguides written by femtosecond laser irradiation in an erbium-doped phospho-tellurite glass. <i>Optics Express</i> , 2008, 16, 15198.	1.7	55
78	Femtosecond laser writing of waveguides in zinc phosphate glasses [Invited]. <i>Optical Materials Express</i> , 2011, 1, 845.	1.6	55
79	An integrated optofluidic device for single-cell sorting driven by mechanical properties. <i>Lab on A Chip</i> , 2015, 15, 1262-1266.	3.1	55
80	Recent Advances and Future Perspectives of Single-Photon Avalanche Diodes for Quantum Photonics Applications. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000102.	1.8	54
81	Femtosecond laser inscription of optical waveguides in Bismuth ion doped glass. <i>Optics Express</i> , 2006, 14, 10452.	1.7	53
82	Lasing in femtosecond laser written optical waveguides. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 17-26.	1.1	53
83	Microfluidic Based Optical Microscopes on Chip. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 987-996.	1.1	53
84	Nonlinear Optical Microscopy: From Fundamentals to Applications in Live Bioimaging. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 585363.	2.0	53
85	All-optical non-Markovian stroboscopic quantum simulator. <i>Physical Review A</i> , 2015, 91, .	1.0	50
86	Validation and perspectives of a femtosecond laser fabricated monolithic optical stretcher. <i>Biomedical Optics Express</i> , 2012, 3, 2658.	1.5	49
87	Femtosecond Laser Inscription of Low Insertion Loss Waveguides in Z-Cut Lithium Niobate. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 892-894.	1.3	48
88	Photonic simulation of entanglement growth and engineering after a spin chain quench. <i>Nature Communications</i> , 2017, 8, 1569.	5.8	48
89	Double waveguide couplers produced by simultaneous femtosecond writing. <i>Optics Express</i> , 2009, 17, 3555.	1.7	47
90	Generation of deep ultraviolet sub-2-fs pulses. <i>Optics Letters</i> , 2019, 44, 1308.	1.7	47

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91	Design and Evaluation of a Handheld Quantum Key Distribution Sender module. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 131-137.	1.9	46
92	Femtosecond laser micromachining for integrated quantum photonics. Nanophotonics, 2021, 10, 3789-3812.	2.9	45
93	Optimization of Femtosecond Laser Polymerized Structural Niches to Control Mesenchymal Stromal Cell Fate in Culture. Micromachines, 2014, 5, 341-358.	1.4	44
94	Effect of the resin viscosity on the writing properties of two-photon polymerization. Optical Materials Express, 2019, 9, 2601.	1.6	44
95	Multi-foci laser microfabrication of 3D polymeric scaffolds for stem cell expansion in regenerative medicine. Scientific Reports, 2019, 9, 11761.	1.6	41
96	Scaling-Up Techniques for the Nanofabrication of Cell Culture Substrates via Two-Photon Polymerization for Industrial-Scale Expansion of Stem Cells. Materials, 2017, 10, 66.	1.3	40
97	Welding of PMMA by a femtosecond fiber laser. Optics Express, 2015, 23, 4114.	1.7	39
98	Er ³⁺ :Yb-Doped Oxyfluoride Silicate Glass Waveguide Laser Fabricated Using Ultrafast Laser Inscription. IEEE Photonics Technology Letters, 2008, 20, 126-128.	1.3	37
99	All-silica microfluidic optical stretcher with acoustophoretic prefocusing. Microfluidics and Nanofluidics, 2015, 19, 837-844.	1.0	37
100	Optical properties of Dy ³⁺ -doped yttrium-aluminium borate. Journal of Physics Condensed Matter, 2004, 16, 465-471.	0.7	36
101	Bayesian approach to Boson sampling validation. International Journal of Quantum Information, 2014, 12, 1560028.	0.6	36
102	Two-photon polymerized "nichoid" substrates maintain function of pluripotent stem cells when expanded under feeder-free conditions. Stem Cell Research and Therapy, 2016, 7, 132.	2.4	36
103	Particle Manipulation by Optical Forces in Microfluidic Devices. Micromachines, 2018, 9, 200.	1.4	36
104	Low Power Reconfigurability and Reduced Crosstalk in Integrated Photonic Circuits Fabricated by Femtosecond Laser Micromachining. Laser and Photonics Reviews, 2020, 14, 2000024.	4.4	35
105	High-throughput 3D imaging of single cells with light-sheet fluorescence microscopy on chip. Biomedical Optics Express, 2020, 11, 4397.	1.5	35
106	Femtosecond laser inscription of Bragg grating waveguides in bulk diamond. Optics Letters, 2017, 42, 3451.	1.7	35
107	Role of ion migrations in ultrafast laser written tellurite glass waveguides. Optics Express, 2014, 22, 15298.	1.7	34
108	Direct writing of optical microresonators in a lab-on-a-chip for label-free biosensing. Lab on A Chip, 2019, 19, 1985-1990.	3.1	34

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109	Topological defects of nematic liquid crystals confined in porous networks. <i>Soft Matter</i> , 2011, 7, 10945.	1.2	33
110	A New Perfluoropolyether-Based Hydrophobic and Chemically Resistant Photoresist Structured by Two-Photon Polymerization. <i>Langmuir</i> , 2013, 29, 426-431.	1.6	33
111	Benchmarking integrated linear-optical architectures for quantum information processing. <i>Scientific Reports</i> , 2017, 7, 15133.	1.6	33
112	Pattern Recognition Techniques for Boson Sampling Validation. <i>Physical Review X</i> , 2019, 9, .	2.8	33
113	Fabrication of binary Fresnel lenses in PMMA by femtosecond laser surface ablation. <i>Optics Express</i> , 2011, 19, 11597.	1.7	32
114	Synthetic niche substrates engineered via two-photon laser polymerization for the expansion of human mesenchymal stromal cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2836-2845.	1.3	32
115	Experimental generalized quantum suppression law in Sylvester interferometers. <i>New Journal of Physics</i> , 2018, 20, 033017.	1.2	32
116	Hybrid chemical etching of femtosecond laser irradiated structures for engineered microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 085002.	1.5	31
117	Quantum Micro- Nano Devices Fabricated in Diamond by Femtosecond Laser and Ion Irradiation. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900006.	1.8	31
118	Experimental Investigation of Quantum Decay at Short, Intermediate, and Long Times via Integrated Photonics. <i>Physical Review Letters</i> , 2019, 122, 130401.	2.9	30
119	Interfacing scalable photonic platforms: solid-state based multi-photon interference in a reconfigurable glass chip. <i>Optica</i> , 2019, 6, 1471.	4.8	30
120	Fabrication of photonic devices in nanostructured glasses by femtosecond laser pulses. <i>Optics Express</i> , 2007, 15, 12628.	1.7	29
121	Fluorescence monitoring of microchip capillary electrophoresis separation with monolithically integrated waveguides. <i>Optics Letters</i> , 2008, 33, 2503.	1.7	29
122	Modulation-frequency encoded multi-color fluorescent DNA analysis in an optofluidic chip. <i>Lab on A Chip</i> , 2011, 11, 679-683.	3.1	29
123	Laser printed nano-gratings: orientation and period peculiarities. <i>Scientific Reports</i> , 2017, 7, 39989.	1.6	29
124	Ultrafast optofluidic gain switch based on conjugated polymer in femtosecond laser fabricated microchannels. <i>Applied Physics Letters</i> , 2009, 94, 041123.	1.5	28
125	Quantum simulation of bosonic-fermionic noninteracting particles in disordered systems via a quantum walk. <i>Physical Review A</i> , 2014, 89, .	1.0	28
126	Near-infrared optical parametric amplifier at 1 MHz directly pumped by a femtosecond oscillator. <i>Optics Letters</i> , 2007, 32, 1489.	1.7	27

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127	Control of waveguide properties by tuning femtosecond laser induced compositional changes. Applied Physics Letters, 2014, 105, .	1.5	27
128	A comprehensive strategy for the analysis of acoustic compressibility and optical deformability on single cells. Scientific Reports, 2016, 6, 23946.	1.6	27
129	A computational approach to the characterization of a microfluidic device for continuous size-based inertial sorting. Journal Physics D: Applied Physics, 2017, 50, 255601.	1.3	27
130	Effect of the 3D Artificial Nichoid on the Morphology and Mechanobiological Response of Mesenchymal Stem Cells Cultured In Vitro. Cells, 2020, 9, 1873.	1.8	27
131	Optical sensing in microfluidic lab-on-a-chip by femtosecond-laser-written waveguides. Analytical and Bioanalytical Chemistry, 2009, 393, 1209-1216.	1.9	26
132	High-Fidelity Solvent-Resistant Replica Molding of Hydrophobic Polymer Surfaces Produced by Femtosecond Laser Nanofabrication. Langmuir, 2011, 27, 8391-8395.	1.6	26
133	Experimental adaptive Bayesian estimation of multiple phases with limited data. Npj Quantum Information, 2020, 6, .	2.8	26
134	Femtosecond laser direct writing of gratings and waveguides in high quantum efficiency erbium-doped Baccarat glass. Journal Physics D: Applied Physics, 2009, 42, 205106.	1.3	24
135	Ultrafast optical gain switch in organic photonic devices. Journal of Materials Chemistry, 2010, 20, 519-523.	6.7	24
136	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
137	Learning an unknown transformation via a genetic approach. Scientific Reports, 2017, 7, 14316.	1.6	24
138	Thermal Phase Shifters for Femtosecond Laser Written Photonic Integrated Circuits. Journal of Lightwave Technology, 2019, 37, 4275-4281.	2.7	24
139	Polymeric fully inertial lab-on-a-chip with enhanced-throughput sorting capabilities. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	24
140	Dispersion of the ordinary refractive-index change in a proton-exchanged LiNbO3 waveguide. Applied Physics Letters, 2001, 78, 2098-2100.	1.5	23
141	Background-free broadband CARS spectroscopy from a 1-MHz ytterbium laser. Optics Express, 2011, 19, 15143.	1.7	23
142	Femtosecond laser direct writing in transparent materials based on nonlinear absorption. MRS Bulletin, 2016, 41, 975-983.	1.7	23
143	Dynamic mechanical characterization of two-photon-polymerized SZ2080 photoresist. Journal of Applied Physics, 2020, 128, .	1.1	23
144	Calibration of Multiparameter Sensors via Machine Learning at the Single-Photon Level. Physical Review Applied, 2021, 15, .	1.5	23

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145	Enhanced ÅEerenkov second-harmonic generation in a planar nonlinear waveguide that reproduces a one-dimensional photonic bandgap structure. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2102.	0.9	22
146	Micromachining of photonic devices by femtosecond laser pulses. Journal of Optics, 2009, 11, 049801.	1.5	22
147	Solvent vapor treatment controls surface wettability in PMMA femtosecond-laser-ablated microchannels. Microfluidics and Nanofluidics, 2013, 14, 171-176.	1.0	22
148	Geometrically-controlled polarisation processing in femtosecond-laser-written photonic circuits. Scientific Reports, 2017, 7, 11342.	1.6	22
149	Fundamentals of Femtosecond Laser Modification of Bulk Dielectrics. Topics in Applied Physics, 2012, , 3-18.	0.4	21
150	Nematic Liquid Crystals Embedded in Cubic Microlattices: Memory Effects and Bistable Pixels. Advanced Functional Materials, 2013, 23, 3990-3994.	7.8	21
151	Rapid Prototyping of Plastic Lab-on-a-Chip by Femtosecond Laser Micromachining and Removable Insert Microinjection Molding. Micromachines, 2017, 8, 328.	1.4	21
152	Comparative study of AgÊNa thermal and field-assisted ion exchange on Er-doped phosphate glass. Optical Materials, 2001, 17, 425-435.	1.7	20
153	Femtosecond laser fabrication of microfluidic channels for organic photonic devices. Applied Optics, 2009, 48, G114.	2.1	20
154	High-order harmonic generation in a microfluidic glass device. JPhys Photonics, 2020, 2, 024005.	2.2	20
155	Femtosecond laser direct writing of an integrated path-encoded CNOT quantum gate. Optical Materials Express, 2019, 9, 2318.	1.6	20
156	Observation of anomalous acoustic phonon dispersion in SrTiO3 by broadband stimulated Brillouin scattering. Applied Physics Letters, 2011, 98, .	1.5	19
157	Interactions between structural and chemical biomimetism in synthetic stem cell niches. Biomedical Materials (Bristol), 2015, 10, 015012.	1.7	19
158	Quantum state transfer via Bloch oscillations. Scientific Reports, 2016, 6, 26054.	1.6	19
159	Er3+ doped YAl3(BO3)4 single crystals: determination of the refractive indices. Optical Materials, 2004, 26, 231-233.	1.7	18
160	Polarization entangled states measurement on a chip. , 2011, , .		18
161	Scaling of black silicon processing time by high repetition rate femtosecond lasers. Optical Materials Express, 2013, 3, 612.	1.6	18
162	HighÊresolution electrophoretic separation and integratedÊwaveguide excitation of fluorescent DNA molecules in a lab on a chip. Electrophoresis, 2010, 31, 2584-2588.	1.3	17

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163	Newtonian to non-newtonian fluid transition of a model transient network. <i>Soft Matter</i> , 2018, 14, 3288-3295.	1.2	17
164	Effects of Thermal Annealing on Femtosecond Laser Micromachined Glass Surfaces. <i>Micromachines</i> , 2021, 12, 180.	1.4	17
165	Space Qualification of Ultrafast Laser-Written Integrated Waveguide Optics. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000167.	4.4	17
166	Investigation of temperature effect on cell mechanics by optofluidic microchips. <i>Biomedical Optics Express</i> , 2015, 6, 2991.	1.5	16
167	Single-Photon Quantum Contextuality on a Chip. <i>ACS Photonics</i> , 2017, 4, 2807-2812.	3.2	16
168	Optofluidic light modulator integrated in lab-on-a-chip. <i>Optics Express</i> , 2017, 25, 7313.	1.7	16
169	Optimal photonic indistinguishability tests in multimode networks. <i>Science Bulletin</i> , 2018, 63, 1470-1478.	4.3	16
170	Automatic imaging of <i>Drosophila</i> embryos with light sheet fluorescence microscopy on chip. <i>Journal of Biophotonics</i> , 2021, 14, e202000396.	1.1	16
171	Femtosecond laser fabrication and characterization of microchannels and waveguides in methacrylate-based polymers. <i>Microsystem Technologies</i> , 2012, 18, 183-190.	1.2	15
172	Disposable Optical Stretcher Fabricated by Microinjection Moulding. <i>Micromachines</i> , 2018, 9, 388.	1.4	15
173	Femtosecond-laser-written optofluidics in alumino-borosilicate glass. <i>Optical Materials: X</i> , 2019, 4, 100042.	0.3	15
174	Reconfigurable continuously-coupled 3D photonic circuit for Boson Sampling experiments. <i>Npj Quantum Information</i> , 2022, 8, .	2.8	15
175	New Er-doped phosphate glass for ion-exchange active waveguides: accurate determination of the refractive index. <i>Optical Materials</i> , 2000, 14, 291-296.	1.7	14
176	Fabrication of 3D photonic devices at 1.55 μm wavelength by femtosecond Ti:Sapphire oscillator. <i>Electronics Letters</i> , 2005, 41, 315.	0.5	14
177	Reverse-proton-exchange in stoichiometric lithium tantalate. <i>Optics Express</i> , 2004, 12, 2754.	1.7	13
178	Dual-point dual-wavelength fluorescence monitoring of DNA separation in a lab on a chip. <i>Biomedical Optics Express</i> , 2010, 1, 729.	1.5	13
179	Neural precursors cells expanded in a 3D micro-engineered niche present enhanced therapeutic efficacy <i>in vivo</i> . <i>Nanotheranostics</i> , 2021, 5, 8-26.	2.7	13
180	The nuclear import of the transcription factor MyoD is reduced in mesenchymal stem cells grown in a 3D micro-engineered niche. <i>Scientific Reports</i> , 2021, 11, 3021.	1.6	13

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181	Experimental quantum homomorphic encryption. Npj Quantum Information, 2021, 7, .	2.8	13
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183	Storage and analysis of light-matter entanglement in a fiber-integrated system. Science Advances, 2022, 8, .	4.7	12
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