

# Roberta Ramponi

## List of Publications by Year in descending order

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299  
papers

8,489  
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66234

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86  
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301  
all docs

301  
docs citations

301  
times ranked

5964  
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	Anderson localization of entangled photons in an integrated quantum walk. Nature Photonics, 2013, 7, 322-328.	15.6	372
4	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
5	Observation of Dynamic Localization in Periodically Curved Waveguide Arrays. Physical Review Letters, 2006, 96, 243901.	2.9	298
6	Integrated photonic quantum gates for polarization qubits. Nature Communications, 2011, 2, 566.	5.8	251
7	Experimental validation of photonic boson sampling. Nature Photonics, 2014, 8, 615-620.	15.6	244
8	Polarization Entangled State Measurement on a Chip. Physical Review Letters, 2010, 105, 200503.	2.9	216
9	Age-related changes in the morphology, absorption and fluorescence of melanosomes and lipofuscin granules of the retinal pigment epithelium. Vision Research, 1990, 30, 1291-1303.	0.7	214
10	Femtosecond micromachining of symmetric waveguides at 15 Åµm by astigmatic beam focusing. Optics Letters, 2002, 27, 1938.	1.7	191
11	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
12	Experimental scattershot boson sampling. Science Advances, 2015, 1, e1400255.	4.7	184
13	Femtosecond laser fabricated monolithic chip for optical trapping and stretching of single cells. Optics Express, 2010, 18, 4679.	1.7	148
14	Three-photon bosonic coalescence in an integrated tritter. Nature Communications, 2013, 4, 1606.	5.8	139
15	Integration of optical waveguides and microfluidic channels both fabricated by femtosecond laser irradiation. Applied Physics Letters, 2007, 90, 231118.	1.5	133
16	Integration of femtosecond laser written optical waveguides in a lab-on-chip. Lab on A Chip, 2009, 9, 91-96.	3.1	119
17	Measuring protein concentration with entangled photons. Applied Physics Letters, 2012, 100, .	1.5	116
18	Rotated waveplates in integrated waveguide optics. Nature Communications, 2014, 5, 4249.	5.8	111

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19	Surface Properties of Femtosecond Laser Ablated PMMA. ACS Applied Materials & Interfaces, 2010, 2, 2377-2384.	4.0	109
20	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
21	Two straightforward methods for the measurement of optical losses in planar waveguides. Review of Scientific Instruments, 2002, 73, 1117-1120.	0.6	105
22	Suppression law of quantum states in a 3D photonic fast Fourier transform chip. Nature Communications, 2016, 7, 10469.	5.8	105
23	Thermally reconfigurable quantum photonic circuits at telecom wavelength by femtosecond laser micromachining. Light: Science and Applications, 2015, 4, e354-e354.	7.7	103
24	Shape control of microchannels fabricated in fused silica by femtosecond laser irradiation and chemical etching. Optics Express, 2009, 17, 8685.	1.7	98
25	Diamond photonics platform enabled by femtosecond laser writing. Scientific Reports, 2016, 6, 35566.	1.6	96
26	Femtosecond laser writing of waveguides in periodically poled lithium niobate preserving the nonlinear coefficient. Applied Physics Letters, 2007, 90, 241107.	1.5	94
27	Optical waveguide writing with a diode-pumped femtosecond oscillator. Optics Letters, 2004, 29, 1900.	1.7	91
28	Waveguide lasers in the C-band fabricated by laser inscription with a compact femtosecond oscillator. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 277-285.	1.9	90
29	Imaging of Bloch oscillations in erbium-doped curved waveguide arrays. Optics Letters, 2006, 31, 1651.	1.7	88
30	Fiber-format stimulated-Raman-scattering microscopy from a single laser oscillator. Optics Letters, 2010, 35, 226.	1.7	88
31	Quantum interferometry with three-dimensional geometry. Scientific Reports, 2012, 2, 862.	1.6	87
32	Optofluidic integrated cell sorter fabricated by femtosecond lasers. Lab on A Chip, 2012, 12, 3779.	3.1	86
33	Mid-infrared optical combs from a compact amplified Er-doped fiber oscillator. Optics Letters, 2008, 33, 2671.	1.7	82
34	Path-polarization hyperentangled and cluster states of photons on a chip. Light: Science and Applications, 2016, 5, e16064-e16064.	7.7	73
35	Fiber-format CARS spectroscopy by spectral compression of femtosecond pulses from a single laser oscillator. Optics Letters, 2009, 34, 3262.	1.7	67
36	AGE-RELATED CHANGES IN THE FLUORESCENCE OF MELANIN and LIPOFUSCIN GRANULES OF THE RETINAL PIGMENT EPITHELIUM: A TIME-RESOLVED FLUORESCENCE SPECTROSCOPY STUDY. Photochemistry and Photobiology, 1991, 54, 247-253.	1.3	65

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37	General Rules for Bosonic Bunching in Multimode Interferometers. <i>Physical Review Letters</i> , 2013, 111, 130503.	2.9	64
38	Optical gain in Er-Yb doped waveguides fabricated by femtosecond laser pulses. <i>Electronics Letters</i> , 2002, 38, 964.	0.5	62
39	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
40	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
41	Femtosecond laser microstructuring for polymeric lab-on-a-chips. <i>Journal of Biophotonics</i> , 2012, 5, 687-702.	1.1	56
42	Particle Statistics Affects Quantum Decay and Fano Interference. <i>Physical Review Letters</i> , 2015, 114, 090201.	2.9	56
43	Optical field enhanced nonlinear absorption and optical limiting properties of 1-D dielectric photonic crystal with ZnO defect. <i>Optical Materials</i> , 2015, 50, 229-233.	1.7	45
44	Disorder in Photonic Structures Induced by Random Layer Thickness. <i>Science of Advanced Materials</i> , 2015, 7, 1207-1212.	0.1	42
45	Femtosecond laser written photonic and microfluidic circuits in diamond. <i>JPhys Photonics</i> , 2019, 1, 022001.	2.2	40
46	Time-resolved fluorescence spectroscopy of hematoporphyrin derivative in micelles. <i>Chemical Physics Letters</i> , 1986, 128, 439-442.	1.2	39
47	A system for time-resolved laser fluorescence spectroscopy with multiple picosecond gating. <i>Review of Scientific Instruments</i> , 1988, 59, 2254-2259.	0.6	38
48	Optical properties of Dy <sup>3+</sup> -doped yttrium-aluminium borate. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 465-471.	0.7	36
49	Bayesian approach to Boson sampling validation. <i>International Journal of Quantum Information</i> , 2014, 12, 1560028.	0.6	36
50	Group-velocity control by quadratic nonlinear interactions. <i>Optics Letters</i> , 2006, 31, 534.	1.7	35
51	Spectral shift of femtosecond pulses in nonlinear quadratic PPSLT Crystals. <i>Optics Express</i> , 2006, 14, 4774.	1.7	35
52	Femtosecond laser inscription of Bragg grating waveguides in bulk diamond. <i>Optics Letters</i> , 2017, 42, 3451.	1.7	35
53	Fabrication of binary Fresnel lenses in PMMA by femtosecond laser surface ablation. <i>Optics Express</i> , 2011, 19, 11597.	1.7	32
54	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

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55	Steps towards the hyperfine splitting measurement of the muonic hydrogen ground state: pulsed muon beam and detection system characterization. <i>Journal of Instrumentation</i> , 2016, 11, P05007-P05007.	0.5	31
56	Quantum Micro-“Nano Devices Fabricated in Diamond by Femtosecond Laser and Ion Irradiation. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900006.	1.8	31
57	Sub-100 fs pump-probe spectroscopy of Single Wall Carbon Nanotubes with a 100 MHz Er-fiber laser system. <i>Optics Express</i> , 2008, 16, 11727.	1.7	30
58	Metal oxide one dimensional photonic crystals made by RF sputtering and spin coating. <i>Ceramics International</i> , 2015, 41, 8655-8659.	2.3	30
59	Fabrication of photonic devices in nanostructured glasses by femtosecond laser pulses. <i>Optics Express</i> , 2007, 15, 12628.	1.7	29
60	Fluorescence monitoring of microchip capillary electrophoresis separation with monolithically integrated waveguides. <i>Optics Letters</i> , 2008, 33, 2503.	1.7	29
61	An automatic pulsed laser microfluorometer with high spatial and temporal resolution. <i>Journal of Microscopy</i> , 1984, 134, 151-160.	0.8	28
62	Ultrafast optofluidic gain switch based on conjugated polymer in femtosecond laser fabricated microchannels. <i>Applied Physics Letters</i> , 2009, 94, 041123.	1.5	28
63	Quantum simulation of bosonic-fermionic noninteracting particles in disordered systems via a quantum walk. <i>Physical Review A</i> , 2014, 89, .	1.0	28
64	Femtosecond laser surface structuring and oxidation of chromium thin coatings: Black chromium. <i>Applied Surface Science</i> , 2014, 321, 560-565.	3.1	28
65	Time-resolved fluorescence microscopy of hematoporphyrin-derivative in cells. <i>Lasers in Surgery and Medicine</i> , 1982, 2, 21-28.	1.1	27
66	QUANTITATIVE ANALYSIS OF INTRACELLULAR BEHAVIOUR OF PORPHYRINS. <i>Photochemistry and Photobiology</i> , 1987, 46, 663-667.	1.3	27
67	Observation of Wave Packet Dichotomy and Adiabatic Stabilization in an Optical Waveguide. <i>Physical Review Letters</i> , 2005, 94, 073002.	2.9	27
68	Near-infrared optical parametric amplifier at 1 MHz directly pumped by a femtosecond oscillator. <i>Optics Letters</i> , 2007, 32, 1489.	1.7	27
69	Correlated photon-pair generation in a periodically poled MgO doped stoichiometric lithium tantalate reverse proton exchanged waveguide. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	27
70	Tailoring of the free spectral range and geometrical cavity dispersion of a microsphere by a coating layer. <i>Optics Letters</i> , 2014, 39, 5173.	1.7	27
71	Coherent emission from fully Er <sup>3+</sup> doped monolithic 1-D dielectric microcavity fabricated by rf-sputtering. <i>Optical Materials</i> , 2019, 87, 107-111.	1.7	27
72	Optical sensing in microfluidic lab-on-a-chip by femtosecond-laser-written waveguides. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1209-1216.	1.9	26

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73	Visible to Infrared Diamond Photonics Enabled by Focused Femtosecond Laser Pulses. <i>Micromachines</i> , 2017, 8, 60.	1.4	26
74	Comparative study of the therapeutic effect of photoactivated hematoporphyrin derivative and aluminum disulfonated phthalocyanines on tumor bearing mice. <i>Cancer Letters</i> , 1990, 53, 123-127.	3.2	25
75	Synthesis of picosecond pulses by spectral compression and shaping of femtosecond pulses in engineered quadratic nonlinear media. <i>Optics Letters</i> , 2009, 34, 241.	1.7	25
76	Femtosecond laser surface structuring of molybdenum thin films. <i>Applied Surface Science</i> , 2015, 353, 1334-1341.	3.1	25
77	Origin of femtosecond laser induced periodic nanostructure on diamond. <i>AIP Advances</i> , 2017, 7, .	0.6	25
78	Femtosecond laser direct writing of gratings and waveguides in high quantum efficiency erbium-doped Baccarat glass. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 205106.	1.3	24
79	Ultrafast optical gain switch in organic photonic devices. <i>Journal of Materials Chemistry</i> , 2010, 20, 519-523.	6.7	24
80	Learning an unknown transformation via a genetic approach. <i>Scientific Reports</i> , 2017, 7, 14316.	1.6	24
81	Dispersion of the ordinary refractive-index change in a proton-exchanged LiNbO3 waveguide. <i>Applied Physics Letters</i> , 2001, 78, 2098-2100.	1.5	23
82	Background-free broadband CARS spectroscopy from a 1-MHz ytterbium laser. <i>Optics Express</i> , 2011, 19, 15143.	1.7	23
83	Laser surface structuring of diamond with ultrashort Bessel beams. <i>Scientific Reports</i> , 2018, 8, 14021.	1.6	23
84	The FAMU experiment: muonic hydrogen high precision spectroscopy studies. <i>European Physical Journal A</i> , 2020, 56, 1.	1.0	23
85	Enhanced $\tilde{A}E$ erenkov second-harmonic generation in a planar nonlinear waveguide that reproduces a one-dimensional photonic bandgap structure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 2102.	0.9	22
86	Semiclassical motion of a multiband Bloch particle in a time-dependent field: Optical visualization. <i>Physical Review B</i> , 2006, 74, .	1.1	22
87	PHOTOPHYSICAL PROPERTIES OF PORPHYRIN-CHLORIN SYSTEMS IN THE PRESENCE OF SURFACTANTS. <i>Photochemistry and Photobiology</i> , 1987, 46, 633-638.	1.3	21
88	AN INSTRUMENT FOR SIMULTANEOUS ACQUISITION OF FLUORESCENCE SPECTRA AND FLUORESCENCE LIFETIMES FROM SINGLE CELLS. <i>Photochemistry and Photobiology</i> , 1987, 45, 161-165.	1.3	21
89	TIME-GATED FLUORESCENCE OF BLEPHARISMIN, THE PHOTORECEPTOR PIGMENT FOR PHOTOMOVEMENT OF Blepharisma. <i>Photochemistry and Photobiology</i> , 1990, 52, 567-573.	1.3	21
90	Pulsed Bessel beam-induced microchannels on a diamond surface for versatile microfluidic and sensing applications. <i>Optical Materials Express</i> , 2017, 7, 1962.	1.6	21

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91	Polarized micro-Raman studies of femtosecond laser written stress-induced optical waveguides in diamond. Applied Physics Letters, 2018, 112, .	1.5	21
92	Ablation of Copper Metal Films by Femtosecond Laser Multipulse Irradiation. Applied Sciences (Switzerland), 2018, 8, 1826.	1.3	21
93	Comparative study of Ag <sup>+</sup> /Na thermal and field-assisted ion exchange on Er-doped phosphate glass. Optical Materials, 2001, 17, 425-435.	1.7	20
94	Femtosecond laser fabrication of microfluidic channels for organic photonic devices. Applied Optics, 2009, 48, G114.	2.1	20
95	Time-resolved fluorescence spectroscopy of the retinal pigment epithelium: age-related studies. IEEE Journal of Quantum Electronics, 1990, 26, 2218-2225.	1.0	19
96	EQUILIBRIUM AMONG HEMATOPORPHYRIN <sup>+</sup> DERIVATIVE COMPONENTS: INFLUENCE OF THE INTERACTION WITH CELLULAR STRUCTURES. Photochemistry and Photobiology, 1988, 47, 209-214.	1.3	18
97	DISTRIBUTION OF DI-SULFONATED ALUMINUM PHTHALOCYANINE AND PHOTOFRIN II IN LIVING CELLS: A COMPARATIVE FLUOROMETRIC STUDY. Photochemistry and Photobiology, 1992, 55, 575-585.	1.3	18
98	Er <sup>3+</sup> doped YAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> single crystals: determination of the refractive indices. Optical Materials, 2004, 26, 231-233.	1.7	18
99	Polarization entangled states measurement on a chip. , 2011, , .		18
100	Scaling of black silicon processing time by high repetition rate femtosecond lasers. Optical Materials Express, 2013, 3, 612.	1.6	18
101	Femtosecond laser written diamond waveguides: A step towards integrated photonics in the far infrared. Optical Materials, 2018, 85, 183-185.	1.7	17
102	Two temperature approach to femtosecond laser oxidation of molybdenum and morphological study. Applied Surface Science, 2017, 421, 213-219.	3.1	16
103	Optical NP problem solver on laser-written waveguide platform. Optics Express, 2018, 26, 702.	1.7	16
104	Time-gated fluorescence spectroscopy of porphyrin derivatives incorporated into cells. Journal of Photochemistry and Photobiology B: Biology, 1990, 6, 39-48.	1.7	15
105	Optical-damage-free guided second-harmonic generation in 1% MgO-doped stoichiometric lithium tantalate. Optics Letters, 2006, 31, 83.	1.7	15
106	The time-dependent behaviour of Hematoporphyrin-Derivative in saline: A study of spectral modifications. Chemico-Biological Interactions, 1984, 49, 1-11.	1.7	14
107	Time-gated fluorescence spectroscopy of porphyrin derivatives and aluminium phthalocyanine incorporated in vivo in a murine ascitic tumour model. Journal of Photochemistry and Photobiology B: Biology, 1991, 11, 319-328.	1.7	14
108	New Er-doped phosphate glass for ion-exchange active waveguides: accurate determination of the refractive index. Optical Materials, 2000, 14, 291-296.	1.7	14

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109	Fabrication of 3D photonic devices at 1.55 $\mu\text{m}$ wavelength by femtosecond Ti:Sapphire oscillator. Electronics Letters, 2005, 41, 315.	0.5	14
110	High quality buried waveguides in stoichiometric LiTaO <sub>3</sub> for nonlinear frequency conversion. Optics Express, 2006, 14, 248.	1.7	14
111	Plasmonic Heavily-Doped Semiconductor Nanocrystal Dielectrics: Making Static Photonic Crystals Dynamic. Journal of Physical Chemistry C, 2015, 119, 2775-2782.	1.5	14
112	Chromium oxide formation on nanosecond and femtosecond laser irradiated thin chromium films. Optical Materials, 2019, 95, 109206.	1.7	14
113	Laser-Inscribed Glass Microfluidic Device for Non-Mixing Flow of Miscible Solvents. Micromachines, 2019, 10, 23.	1.4	14
114	Thyratron-switched N <sub>2</sub> atmospheric-pressure oscillator, low-pressure amplifier laser system. Review of Scientific Instruments, 1984, 55, 477-481.	0.6	13
115	Propidium iodide and the thiol-specific reagent dactm as a dye pair for fluorescence resonance energy transfer analysis: An application to mouse sperm chromatin. Cytometry, 1994, 15, 106-116.	1.8	13
116	Reverse-proton-exchange in stoichiometric lithium tantalate. Optics Express, 2004, 12, 2754.	1.7	13
117	Simultaneously phase-matched second- and third-harmonic generation from 155 $\mu\text{m}$ radiation in annealed proton-exchanged periodically poled lithium niobate waveguides. Optics Letters, 2006, 31, 2707.	1.7	13
118	Study of graphitic microstructure formation in diamond bulk by pulsed Bessel beam laser writing. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	13
119	Integrated Magnetometry Platform with Stackable Waveguide-Assisted Detection Channels for Sensing Arrays. Physical Review Applied, 2021, 15, .	1.5	13
120	Time-resolved fluorescence spectroscopy of hematoporphyrin-derivative in human lymphocytes. Chemico-Biological Interactions, 1984, 50, 135-141.	1.7	12
121	Spectroscopic studies of hematoporphyrin-derivative in culture medium. Chemico-Biological Interactions, 1984, 50, 153-157.	1.7	12
122	Effects of hematoporphyrin-derivative on mouse erythroleukemia cells in the absence of light irradiation. Chemico-Biological Interactions, 1986, 57, 285-294.	1.7	12
123	A 580 nm emission in haematoporphyrin-derivative solution and in treated cells. Lasers in Medical Science, 1986, 1, 33-39.	1.0	12
124	TIME-GATED FLUORESCENCE SPECTROSCOPY OF THE TUMOR LOCALIZING FRACTION OF HpD IN THE PRESENCE OF CATIONIC SURFACTANT. Photochemistry and Photobiology, 1989, 50, 157-163.	1.3	10
125	Disaggregation Effects On Hematoporphyrin Derivative In The Presence Of Surfactants At Different Concentrations: Temperature Dependence. , 1987, , .		9
126	Cascading of second-order processes in a planar Ti-indiffused LiNbO <sub>3</sub> waveguide: application to frequency shifting. Optics Communications, 1999, 172, 203-209.	1.0	9



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127	Fabrication of band-gap structures in planar nonlinear waveguides for second harmonic generation. <i>Microelectronic Engineering</i> , 2003, 67-68, 742-748.	1.1	9
128	Interaction between femtosecond laser pulses and CdSxSe1-x quantum dots in glasses. <i>Physical Review B</i> , 2007, 76, .	1.1	9
129	Thermo optical coefficient of tin-oxide films measured by ellipsometry. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	9
130	The FAMU experiment at RIKEN-RAL to study the muon transfer rate from hydrogen to other gases. <i>Journal of Instrumentation</i> , 2018, 13, P12033-P12033.	0.5	9
131	Silicon microsphere whispering gallery modes excited by femtosecond-laser-inscribed glass waveguides. <i>Applied Optics</i> , 2018, 57, 3687.	0.9	9
132	Femtosecond laser inscription of nonlinear photonic circuits in Gallium Lanthanum Sulphide glass. <i>JPhys Photonics</i> , 2019, 1, 015006.	2.2	9
133	Quantum technologies in diamond enabled by laser processing. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	9
134	Integrated all-optical nonlinear device for re- configurable add/drop and wavelength shifting of WDM signals. <i>Applied Physics B: Lasers and Optics</i> , 2001, 73, 505-509.	1.1	8
135	Optical spectra of flux grown Nd <sup>3+</sup> :YTa <sub>7</sub> O <sub>19</sub> and Nd <sup>3+</sup> :LaTa <sub>7</sub> O <sub>19</sub> crystals. <i>Optical Materials</i> , 2006, 28, 1235-1237.	1.7	8
136	Highly integrated lab-on-a-chip for fluorescence detection. <i>Optical Engineering</i> , 2016, 55, 097102.	0.5	8
137	Quantum Micro- Nano Devices Fabricated in Diamond by Femtosecond Laser and Ion Irradiation (Adv.) <i>Tj ETQq1</i> 1.0.784314 rgBT / Ov	1.8	8
138	Fabrication of guiding structures in nanostructured tin- silicate glass ceramic by a focused femtosecond laser. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1855-1859.	1.5	7
139	Femtosecond Laser Microfabrication of an Integrated Device for Optical Release and Sensing of Bioactive Compounds. <i>Sensors</i> , 2008, 8, 6595-6604.	2.1	7
140	Optofluidics for Biophotonic Applications. <i>IEEE Photonics Journal</i> , 2012, 4, 596-600.	1.0	7
141	Titanium oxide nanocoating on a titanium thin film deposited on a glass substrate. <i>Thin Solid Films</i> , 2016, 603, 446-451.	0.8	7
142	Fluorescence resonance energy transfer imaging as a tool for in situ evaluation of cell morphofunctional characteristics. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992, 12, 413-416.	1.7	6
143	Nonconventional characterization of single-mode planar proton-exchanged LiNbO <sub>3</sub> waveguides by Cherenkov second harmonic generation. <i>Optics Communications</i> , 1999, 159, 37-42.	1.0	6
144	Waveguide fabrication in LiTaO <sub>3</sub> by vapour-phase proton-exchange. <i>Electronics Letters</i> , 2000, 36, 431.	0.5	6

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145	Second harmonic generation from radiation to guided modes for the characterization of reverse-proton-exchanged waveguides. <i>Optics Express</i> , 2004, 12, 294.	1.7	6
146	Femtosecond laser micromachining for optofluidic and energy applications. <i>Optical Materials</i> , 2013, 36, 102-105.	1.7	6
147	Metal and Metal Oxide Transformation and Texturing Using Pulsed Fiber Laser. <i>Materials Today: Proceedings</i> , 2015, 2, 3950-3956.	0.9	6
148	Raman spectroscopy of femtosecond laser written low propagation loss optical waveguides in Schott N-SF8 glass. <i>Optical Materials</i> , 2017, 72, 626-631.	1.7	6
149	Femtosecond laser written diamond waveguide excitation of the whispering gallery modes in a silicon microsphere. <i>Optical Materials</i> , 2019, 92, 418-424.	1.7	6
150	Potential applications of free electron lasers in biomedicine. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1985, 239, 386-389.	0.7	5
151	Endocapsular lavage with photofrin II as a photodynamic therapy for lens epithelial proliferation. <i>Lasers in Medical Science</i> , 1990, 5, 25-30.	1.0	5
152	Accurate determination of the ordinary index profile of proton-exchanged waveguides. <i>Journal of Lightwave Technology</i> , 2000, 18, 1250-1255.	2.7	5
153	Guided propagation in electric-field-controlled hybrid nematic waveguides. <i>Journal of Applied Physics</i> , 2004, 95, 5972-5978.	1.1	5
154	Measurement of the nonlinear phase shift induced by cascaded interactions in a periodically poled lithium niobate waveguide. <i>Optics Letters</i> , 2005, 30, 2448.	1.7	5
155	Fabrication of Quantum Photonic Integrated Circuits by Means of Femtosecond Laser Pulses. <i>Foundations of Physics</i> , 2014, 44, 843-855.	0.6	5
156	Glass-based 1-D dielectric microcavities. <i>Optical Materials</i> , 2016, 61, 11-14.	1.7	5
157	First FAMU observation of muon transfer from $\hat{1}/4p$ atoms to higher-Z elements. <i>Journal of Instrumentation</i> , 2018, 13, P02019-P02019.	0.5	5
158	Photonic implementation of artificial synapses in ultrafast laser inscribed waveguides in chalcogenide glass. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	5
159	Femtosecond laser fabrication for the integration of optical sensors in microfluidic lab-on-chip devices. <i>Springer Series in Chemical Physics</i> , 2009, , 973-975.	0.2	5
160	Use of radiation and hybrid modes to increase the accuracy in the determination of the refractive indices of rutile. <i>Applied Optics</i> , 2000, 39, 1531.	2.1	4
161	Field-controlled optical profile of a waveguide having a liquid-crystalline core. <i>Applied Physics Letters</i> , 2002, 81, 2337-2339.	1.5	4
162	Variational quantum process tomography of two-qubit maps. <i>Physical Review A</i> , 2013, 87, .	1.0	4

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163	Photonic glass-ceramics: consolidated outcomes and prospects. , 2015, , .		4
164	Femtosecond laser micromachining for the realization of fully integrated photonic and microfluidic devices. Proceedings of SPIE, 2015, , .	0.8	4
165	Low-Threshold Coherent Emission at 1.5 $\mu\text{m}$ from Fully Er <sup>3+</sup> Doped Monolithic 1D Dielectric Microcavity Fabricated Using Radio Frequency Sputtering. Ceramics, 2019, 2, 74-85.	1.0	4
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