

T Toney Fernandez

List of Publications by Year in descending order

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53
papers

1,665
citations

257101

24
h-index

276539

41
g-index

53
all docs

53
docs citations

53
times ranked

1639
citing authors

#	ARTICLE	IF	CITATIONS
1	Designer Glasses—Future of Photonic Device Platforms. <i>Advanced Functional Materials</i> , 2022, 32, 2103103.	7.8	19
2	Quantitative morphology of femtosecond laser-written point-by-point optical fiber Bragg gratings. <i>Optics Letters</i> , 2022, 47, 453.	1.7	4
3	Mid-IR tunable CW and passively Q-switched laser operation of Dy-doped fluoride fiber. <i>Optical Materials Express</i> , 2022, 12, 1502.	1.6	11
4	High performing designer glass platform to host versatile photonic devices. <i>APL Materials</i> , 2021, 9, .	2.2	3
5	Record-high positive refractive index change in bismuth germanate crystals through ultrafast laser enhanced polarizability. <i>Scientific Reports</i> , 2020, 10, 15142.	1.6	7
6	Revisiting ultrafast laser inscribed waveguide formation in commercial alkali-free borosilicate glasses. <i>Optics Express</i> , 2020, 28, 10153.	1.7	25
7	Boson band mapping: revealing ultrafast laser induced structural modifications in chalcogenide glass. <i>Optics Letters</i> , 2020, 45, 3369.	1.7	5
8	Femtosecond laser direct-written fiber Bragg gratings with high reflectivity and low loss at wavelengths beyond 4 Åm. <i>Optics Letters</i> , 2020, 45, 4316.	1.7	24
9	Femtosecond Laser Direct Written Fibre Bragg Gratings in InF3 Fibre. , 2020, , .		0
10	Femtosecond laser written photonic and microfluidic circuits in diamond. <i>JPhys Photonics</i> , 2019, 1, 022001.	2.2	40
11	Boson Band Vibrations Aid Refractive Index Mapping of Waveguides in High Index Chalcogenide Glass. , 2019, , .		0
12	Fabrication of Gratings in Mid-Infrared Compatible Fibres via Femtosecond Laser Direct Inscription. , 2019, , .		2
13	Optimized laser-written ZBLAN fiber Bragg gratings with high reflectivity and low loss. <i>Optics Letters</i> , 2019, 44, 423.	1.7	29
14	Bespoke photonic devices using ultrafast laser driven ion migration in glasses. <i>Progress in Materials Science</i> , 2018, 94, 68-113.	16.0	90
15	Optical channel waveguides written by high repetition rate femtosecond laser irradiation in Liê€Zn fluoroborate glass. <i>Journal of Optics (India)</i> , 2018, 47, 412-415.	0.8	3
16	Design of an Efficient Pulsed Dy³⁺: ZBLAN Fiber Laser Operating in Gain Switching Regime. <i>Journal of Lightwave Technology</i> , 2018, 36, 5327-5333.	2.7	38
17	Continuous-Wave and Pulsed Optical Fiber Lasers for Medium Infrared Applications. , 2018, , .		0
18	Femtosecond laser written diamond waveguides: A step towards integrated photonics in the far infrared. <i>Optical Materials</i> , 2018, 85, 183-185.	1.7	17

#	ARTICLE	IF	CITATIONS
19	Versatile mid-infrared frequency-comb referenced sub-Doppler spectrometer. <i>APL Photonics</i> , 2018, 3, .	3.0	6
20	Rovibrational fine structure and transition dipole moment of CF ₃ H by frequency-comb-assisted saturated spectroscopy at 8.6 μm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 373-379.	1.1	2
21	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
22	Femtosecond laser written diamond photonics. , 2018, , .		0
23	Bulk diamond optical waveguides fabricated by focused femtosecond laser pulses. , 2017, , .		0
24	Laser Writing in Tellurite Glasses. <i>Springer Series in Materials Science</i> , 2017, , 259-276.	0.4	3
25	Synthesis of transparent Er-doped fluorotellurite glass-ceramics through controlled crystallization. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 7000-7005.	1.1	3
26	47-fs Kerr-lens mode-locked Cr:ZnSe laser with high spectral purity. <i>Optics Express</i> , 2017, 25, 25193.	1.7	39
27	Thermo-optical and lasing characteristics of Cr ²⁺ -doped CdSe single crystal as tunable coherent source in the mid-infrared. <i>Optical Materials Express</i> , 2017, 7, 3815.	1.6	29
28	Visible to Infrared Diamond Photonics Enabled by Focused Femtosecond Laser Pulses. <i>Micromachines</i> , 2017, 8, 60.	1.4	26
29	Femtosecond laser inscription of Bragg grating waveguides in bulk diamond. <i>Optics Letters</i> , 2017, 42, 3451.	1.7	35
30	Fiber-format dual-comb coherent Raman spectrometer. <i>Optics Letters</i> , 2017, 42, 4683.	1.7	18
31	Diamond photonics platform enabled by femtosecond laser writing. <i>Scientific Reports</i> , 2016, 6, 35566.	1.6	96
32	Frequency-comb-assisted precision laser spectroscopy of CHF ₃ around 8.6 μm. <i>Journal of Chemical Physics</i> , 2015, 143, 234202.	1.2	9
33	Controlling plasma distributions as driving forces for ion migration during fs laser writing. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 155101.	1.3	33
34	Dual Regimes of Ion Migration in High Repetition Rate Femtosecond Laser Inscribed Waveguides. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1068-1071.	1.3	26
35	Strong ion migration in high refractive index contrast waveguides formed by femtosecond laser pulses in phosphate glass. , 2014, , .		2
36	Role of ion migrations in ultrafast laser written tellurite glass waveguides. <i>Optics Express</i> , 2014, 22, 15298.	1.7	34

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37	Control of waveguide properties by tuning femtosecond laser induced compositional changes. Applied Physics Letters, 2014, 105, .	1.5	27
38	Active Mid-IR emissions from rare-earth doped tellurite glass ceramics for bio applications. , 2014, , .		1
39	2.18 μ m Mid IR emission from highly transparent Er ³⁺ doped tellurite glass ceramic for bio applications. , 2014, , .		0
40	Ion migration assisted inscription of high refractive index contrast waveguides by femtosecond laser pulses in phosphate glass. Optics Letters, 2013, 38, 5248.	1.7	61
41	Femtosecond laser written 16.5 mm long glass-waveguide amplifier and laser with 5.2 dB cm ⁻¹ internal gain at 1534 nm. Laser Physics Letters, 2013, 10, 105802.	0.6	25
42	Active glass-polymer superlattice structure for photonic integration. Nanotechnology, 2012, 23, 225302.	1.3	11
43	Active glass waveguide amplifier on GaAs by UV-pulsed laser deposition and femtosecond laser inscription. Laser Physics Letters, 2012, 9, 329-339.	0.6	11
44	Rare-earth ion doped TeO ₂ and GeO ₂ glasses as laser materials. Progress in Materials Science, 2012, 57, 1426-1491.	16.0	374
45	Review on structural, thermal, optical and spectroscopic properties of tellurium oxide based glasses for fibre optic and waveguide applications. International Materials Reviews, 2012, 57, 357-382.	9.4	116
46	Femtosecond laser written optical waveguide amplifier in phospho-tellurite glass. Optics Express, 2010, 18, 20289.	1.7	70
47	Yttrium disilicate crystallites embedded porous sol-gel thin films for self-cleaning displays. Journal of Applied Physics, 2009, 105, 043513.	1.1	7
48	Non-hydrolytic sol-gel synthesis and characterization of Eosin-Y doped titanosilicate thin films for waveguiding applications. Journal of Materials Processing Technology, 2008, 202, 528-535.	3.1	5
49	Visualization of two-photon Rabi oscillations in evanescently coupled optical waveguides. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085402.	0.6	25
50	Active waveguides written by femtosecond laser irradiation in an erbium-doped phospho-tellurite glass. Optics Express, 2008, 16, 15198.	1.7	55
51	Adiabatic light transfer via dressed states in optical waveguide arrays. Applied Physics Letters, 2008, 92, .	1.5	78
52	An ultra-low hydrolysis sol-gel route for titanosilicate xerogels and their characterization. Journal of Sol-Gel Science and Technology, 2007, 41, 163-168.	1.1	51
53	Radiative parameters of Eu ³⁺ ions in CdSe nanocrystal containing silica matrices. Physica B: Condensed Matter, 2005, 357, 270-276.	1.3	11