

# T Toney Fernandez

## List of Publications by Year in descending order

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53  
papers

1,665  
citations

257450

24  
h-index

276875

41  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1639  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rare-earth ion doped TeO <sub>2</sub> and GeO <sub>2</sub> glasses as laser materials. Progress in Materials Science, 2012, 57, 1426-1491.	32.8	374
2	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.	19.3	116
3	Diamond photonics platform enabled by femtosecond laser writing. Scientific Reports, 2016, 6, 35566.	3.3	96
4	Bespoke photonic devices using ultrafast laser driven ion migration in glasses. Progress in Materials Science, 2018, 94, 68-113.	32.8	90
5	Adiabatic light transfer via dressed states in optical waveguide arrays. Applied Physics Letters, 2008, 92, .	3.3	78
6	Femtosecond laser written optical waveguide amplifier in phospho-tellurite glass. Optics Express, 2010, 18, 20289.	3.4	70
7	Ion migration assisted inscription of high refractive index contrast waveguides by femtosecond laser pulses in phosphate glass. Optics Letters, 2013, 38, 5248.	3.3	61
8	Integrated waveguides and deterministically positioned nitrogen vacancy centers in diamond created by femtosecond laser writing. Optics Letters, 2018, 43, 3586.	3.3	59
9	Active waveguides written by femtosecond laser irradiation in an erbium-doped phospho-tellurite glass. Optics Express, 2008, 16, 15198.	3.4	55
10	An ultra-low hydrolysis sol-gel route for titanosilicate xerogels and their characterization. Journal of Sol-Gel Science and Technology, 2007, 41, 163-168.	2.4	51
11	Femtosecond laser written photonic and microfluidic circuits in diamond. JPhys Photonics, 2019, 1, 022001.	4.6	40
12	47-fs Kerr-lens mode-locked Cr:ZnSe laser with high spectral purity. Optics Express, 2017, 25, 25193.	3.4	39
13	Design of an Efficient Pulsed Dy <sup>3+</sup> : ZBLAN Fiber Laser Operating in Gain Switching Regime. Journal of Lightwave Technology, 2018, 36, 5327-5333.	4.6	38
14	Femtosecond laser inscription of Bragg grating waveguides in bulk diamond. Optics Letters, 2017, 42, 3451.	3.3	35
15	Role of ion migrations in ultrafast laser written tellurite glass waveguides. Optics Express, 2014, 22, 15298.	3.4	34
16	Controlling plasma distributions as driving forces for ion migration during fs laser writing. Journal Physics D: Applied Physics, 2015, 48, 155101.	2.8	33
17	Thermo-optical and lasing characteristics of Cr <sup>2+</sup> -doped CdSe single crystal as tunable coherent source in the mid-infrared. Optical Materials Express, 2017, 7, 3815.	3.0	29
18	Optimized laser-written ZBLAN fiber Bragg gratings with high reflectivity and low loss. Optics Letters, 2019, 44, 423.	3.3	29

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19	Control of waveguide properties by tuning femtosecond laser induced compositional changes. Applied Physics Letters, 2014, 105, .	3.3	27
20	Dual Regimes of Ion Migration in High Repetition Rate Femtosecond Laser Inscribed Waveguides. IEEE Photonics Technology Letters, 2015, 27, 1068-1071.	2.5	26
21	Visible to Infrared Diamond Photonics Enabled by Focused Femtosecond Laser Pulses. Micromachines, 2017, 8, 60.	2.9	26
22	Visualization of two-photon Rabi oscillations in evanescently coupled optical waveguides. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085402.	1.5	25
23	Femtosecond laser written 16.5 mm long glass-waveguide amplifier and laser with 5.2 dB cm <sup>-1</sup> internal gain at 1534 nm. Laser Physics Letters, 2013, 10, 105802.	1.4	25
24	Revisiting ultrafast laser inscribed waveguide formation in commercial alkali-free borosilicate glasses. Optics Express, 2020, 28, 10153.	3.4	25
25	Femtosecond laser direct-written fiber Bragg gratings with high reflectivity and low loss at wavelengths beyond 4 Åm. Optics Letters, 2020, 45, 4316.	3.3	24
26	Designer Glassesâ€”Future of Photonic Device Platforms. Advanced Functional Materials, 2022, 32, 2103103.	14.9	19
27	Fiber-format dual-comb coherent Raman spectrometer. Optics Letters, 2017, 42, 4683.	3.3	18
28	Femtosecond laser written diamond waveguides: A step towards integrated photonics in the far infrared. Optical Materials, 2018, 85, 183-185.	3.6	17
29	Radiative parameters of Eu <sup>3+</sup> ions in CdSe nanocrystal containing silica matrices. Physica B: Condensed Matter, 2005, 357, 270-276.	2.7	11
30	Active glassâ€”polymer superlattice structure for photonic integration. Nanotechnology, 2012, 23, 225302.	2.6	11
31	Active glass waveguide amplifier on GaAs by UV-pulsed laser deposition and femtosecond laser inscription. Laser Physics Letters, 2012, 9, 329-339.	1.4	11
32	Mid-IR tunable CW and passively Q-switched laser operation of Dy-doped fluoride fiber. Optical Materials Express, 2022, 12, 1502.	3.0	11
33	Frequency-comb-assisted precision laser spectroscopy of CHF <sub>3</sub> around 8.6 $\mu$ m. Journal of Chemical Physics, 2015, 143, 234202.	3.0	9
34	Yttrium disilicate crystallites embedded porous sol-gel thin films for self-cleaning displays. Journal of Applied Physics, 2009, 105, 043513.	2.5	7
35	Record-high positive refractive index change in bismuth germanate crystals through ultrafast laser enhanced polarizability. Scientific Reports, 2020, 10, 15142.	3.3	7
36	Versatile mid-infrared frequency-comb referenced sub-Doppler spectrometer. APL Photonics, 2018, 3, .	5.7	6

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37	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.	6.3	5
38	Boson band mapping: revealing ultrafast laser induced structural modifications in chalcogenide glass. Optics Letters, 2020, 45, 3369.	3.3	5
39	Quantitative morphology of femtosecond laser-written point-by-point optical fiber Bragg gratings. Optics Letters, 2022, 47, 453.	3.3	4
40	Laser Writing in Tellurite Glasses. Springer Series in Materials Science, 2017, , 259-276.	0.6	3
41	Synthesis of transparent Er-doped fluorotellurite glass-ceramics through controlled crystallization. Journal of Materials Science: Materials in Electronics, 2017, 28, 7000-7005.	2.2	3
42	Optical channel waveguides written by high repetition rate femtosecond laser irradiation in Li-Zn fluoroborate glass. Journal of Optics (India), 2018, 47, 412-415.	1.7	3
43	High performing designer glass platform to host versatile photonic devices. APL Materials, 2021, 9, .	5.1	3
44	Strong ion migration in high refractive index contrast waveguides formed by femtosecond laser pulses in phosphate glass. , 2014, , .		2
45	Rovibrational fine structure and transition dipole moment of CF3H by frequency-comb-assisted saturated spectroscopy at 8.6 μm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 373-379.	2.3	2
46	Fabrication of Gratings in Mid-Infrared Compatible Fibres via Femtosecond Laser Direct Inscription. , 2019, , .		2
47	Active Mid-IR emissions from rare-earth doped tellurite glass ceramics for bio applications. , 2014, , .		1
48	Bulk diamond optical waveguides fabricated by focused femtosecond laser pulses. , 2017, , .		0
49	Continuous-Wave and Pulsed Optical Fiber Lasers for Medium Infrared Applications. , 2018, , .		0
50	Boson Band Vibrations Aid Refractive Index Mapping of Waveguides in High Index Chalcogenide Glass. , 2019, , .		0
51	2.18 μm Mid IR emission from highly transparent Er <sup>3+</sup> doped tellurite glass ceramic for bio applications. , 2014, , .		0
52	Femtosecond laser written diamond photonics. , 2018, , .		0
53	Femtosecond Laser Direct Written Fibre Bragg Gratings in InF3 Fibre. , 2020, , .		0