Getinet Woyessa

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3432016/publications.pdf

Version: 2024-02-01

57 papers	1,392 citations	430874 18 h-index	345221 36 g-index
58 all docs	58 docs citations	58 times ranked	973 citing authors

#	Article	IF	Citations
1	Temperature insensitive hysteresis free highly sensitive polymer optical fiber Bragg grating humidity sensor. Optics Express, 2016, 24, 1206.	3.4	210
2	Zeonex microstructured polymer optical fiber: fabrication friendly fibers for high temperature and humidity insensitive Bragg grating sensing. Optical Materials Express, 2017, 7, 286.	3.0	137
3	Fabrication and characterization of polycarbonate microstructured polymer optical fibers for high-temperature-resistant fiber Bragg grating strain sensors. Optical Materials Express, 2016, 6, 649.	3.0	118
4	Single mode step-index polymer optical fiber for humidity insensitive high temperature fiber Bragg grating sensors. Optics Express, 2016, 24, 1253.	3.4	117
5	Low Loss Polycarbonate Polymer Optical Fiber for High Temperature FBG Humidity Sensing. IEEE Photonics Technology Letters, 2017, 29, 575-578.	2.5	100
6	Zeonex-PMMA microstructured polymer optical FBGs for simultaneous humidity and temperature sensing. Optics Letters, 2017, 42, 1161.	3.3	78
7	Fast and stable gratings inscription in POFs made of different materials with pulsed 248 nm KrF laser. Optics Express, 2018, 26, 2013.	3.4	63
8	Dynamic mechanical characterization with respect to temperature, humidity, frequency and strain in mPOFs made of different materials. Optical Materials Express, 2018, 8, 804.	3.0	57
9	Small and Robust All-Polymer Fiber Bragg Grating Based pH Sensor. Journal of Lightwave Technology, 2019, 37, 4480-4486.	4.6	42
10	Long-term strain response of polymer optical fiber FBG sensors. Optical Materials Express, 2017, 7, 967.	3.0	37
11	Power stable 1.5â€“10.5â€‰â€‰Âµm cascaded mid-infrared supercontinuum laser without thulium amplifier. Optics Letters, 2021, 46, 1129.	3.3	35
12	BDK-doped core microstructured PMMA optical fiber for effective Bragg grating photo-inscription. Optics Letters, 2017, 42, 2209.	3.3	34
13	Zeonex â€“ a route towards low loss humidity insensitive single-mode step-index polymer optical fibre. Optical Fiber Technology, 2020, 57, 102231.	2.7	31
14	Fourier transform spectrometer based on high-repetition-rate mid-infrared supercontinuum sources for trace gas detection. Optics Express, 2021, 29, 22315.	3.4	31
15	Inscription of Bragg gratings in undoped PMMA mPOF with Nd:YAG laser at 266â€…nm wavelength. Optics Express, 2019, 27, 38039.	3.4	29
16	An ultra-compact particle size analyser using a CMOS image sensor and machine learning. Light: Science and Applications, 2020, 9, 21.	16.6	23
17	Solution-Mediated Annealing of Polymer Optical Fiber Bragg Gratings at Room Temperature. IEEE Photonics Technology Letters, 2017, 29, 687-690.	2.5	22
18	Enhanced pressure and thermal sensitivity of polymer optical fiber Bragg grating sensors. Optics and Laser Technology, 2020, 130, 106357.	4.6	19

#	Article	IF	Citations
19	All-polymer multimaterial optical fiber fabrication for high temperature applications. Optical Materials Express, 2021, 11, 345.	3.0	18
20	Chirped POF Bragg grating production utilizing UV cure adhesive coating for multiparameter sensing. Optical Fiber Technology, 2021, 65, 102593.	2.7	17
21	Compact Dual-Strain Sensitivity Polymer Optical Fiber Grating for Multi-Parameter Sensing. Journal of Lightwave Technology, 2021, 39, 2230-2240.	4.6	16
22	Nanoimprinting and tapering of chalcogenide photonic crystal fibers for cascaded supercontinuum generation. Optics Letters, 2019, 44, 5505.	3.3	15
23	Bragg Gratings Inscribed in Solid-Core Microstructured Single-Mode Polymer Optical Fiber Drawn From a 3D-Printed Polycarbonate Preform. IEEE Sensors Journal, 2020, 20, 12744-12757.	4.7	13
24	Single Peak Fiber Bragg Grating Sensors in Tapered Multimode Polymer Optical Fibers. Journal of Lightwave Technology, 2021, 39, 6934-6941.	4.6	13
25	Polymer Optical Fiber Modification By Etching Using Hansen Solubility Parametersâ€"A Case Study of TOPAS, Zeonex, and PMMA. Journal of Lightwave Technology, 2019, 37, 4776-4783.	4.6	12
26	Thermo-mechanical dynamics of nanoimprinting anti-reflective structures onto small-core mid-IR chalcogenide fibers [Invited]. Chinese Optics Letters, 2021, 19, 030603.	2.9	11
27	Influence of the Cladding Structure in PMMA mPOFs Mechanical Properties for Strain Sensors Applications. IEEE Sensors Journal, 2018, 18, 5805-5811.	4.7	10
28	Effects of Solvent Etching on PMMA Microstructured Optical Fiber Bragg Grating. Journal of Lightwave Technology, 2019, 37, 4469-4479.	4.6	10
29	Non-Destructive Subsurface Inspection of Marine and Protective Coatings Using Near- and Mid-Infrared Optical Coherence Tomography. Coatings, 2021, 11, 877.	2.6	9
30	Hot water-assisted fabrication of chirped polymer optical fiber Bragg gratings. Optics Express, 2018, 26, 34655.	3.4	9
31	Mechanical characterization of drawn Zeonex, Topas, polycarbonate and PMMA microstructured polymer optical fibres. Optical Materials Express, 2018, 8, 3600.	3.0	9
32	High-resolution mid-infrared optical coherence tomography with kHz line rate. Optics Letters, 2021, 46, 4558.	3.3	8
33	Direct Bragg Grating Inscription in Single Mode Step-Index TOPAS/ZEONEX Polymer Optical Fiber Using 520 nm Femtosecond Pulses. Polymers, 2022, 14, 1350.	4.5	8
34	Fabry-Perot micro-structured polymer optical fibre sensors for opto-acoustic endoscopy. , 2015, , .		5
35	Polycarbonate mPOF-Based Machâ€"Zehnder Interferometer for Temperature and Strain Measurement. Sensors, 2020, 20, 6643.	3.8	5
36	Influence of pulse duration and repetition rate on mid-infrared cascaded supercontinuum. Optics Letters, 2020, 45, 5161.	3.3	4

#	Article	IF	Citations
37	Microstructured Polymer Optical Fiber Gratings and Sensors. , 2019, , 2037-2078.		3
38	Supercontinuum based mid-infrared OCT, spectroscopy, and hyperspectral imaging. , 2021, , .		2
39	Zeonex Microstructured Polymer Optical Fibre Bragg Grating Sensor. , 2016, , .		2
40	Microstructured Polymer Optical Fiber Gratings and Sensors. , 2018, , 1-43.		2
41	The Application of Hansen Solubility Parameters for Local Etching of TOPAS Polymer Optical Fibers. , 2018, , .		2
42	An L-band ultrasonic probe using polymer optical fibre. , 2019, , .		2
43	Polymer optical fibre sensors for endoscopic optoacoustic imaging. , 2015, , .		1
44	Simultaneous measurement of temperature and humidity with microstructured polymer optical fiber Bragg gratings. , 2017, , .		1
45	Adhesive assisted fabrication of chirped POF Bragg grating. , 2020, , .		1
46	Long term strain behavior of PMMA-based polymer optical fibers. , 2015, , .		0
47	Creation of a microstructured polymer optical fiber with UV Bragg grating inscription for the detection of extensions at temperatures up to 125Â°C. Proceedings of SPIE, 2016, , .	0.8	0
48	Effects of pre-strain on the intrinsic pressure sensitivity of polymer optical fiber Bragg gratings. Proceedings of SPIE, 2017, , .	0.8	0
49	Influence of Thermo-Mechanical Mismatch when Nanoimprinting Anti-Reflective Structures onto Small-core Mid-IR Chalcogenide Fibers. , 2021, , .		0
50	All-Polymer Fiber Bragg Grating based pH Sensor. , 2018, , .		0
51	Effects of Solvent Etching on PMMA Microstructured Optical Fiber Bragg Grating. , 2018, , .		0
52	Optical ammonia sensors based on Hollow core fiber and photoacoustic spectroscopy. , 2019, , .		0
53	Bragg grating device fabrication in undoped PMMA mPOF at 266 nm UV waveleng. , 2019, , .		0
54	Long Wavelength Mid-Infrared Supercontinuum Source. , 2020, , .		0

#	Article	IF	Citations
55	Cyclo Olefin Polymer Fiber for FBG Based Sensors. , 2021, , .		0
56	High-temperature polymer multimaterial fibers. , 2021, , .		0
57	Convenient connectorization technique between single mode polymer optical fiber and single mode silica optical fiber. , 2022, , .		0