

# Antreas Theodosiou

## List of Publications by Year in descending order

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87  
papers

1,734  
citations

279701

23  
h-index

289141

40  
g-index

88  
all docs

88  
docs citations

88  
times ranked

1027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-Insensitive Curvature Sensor With Plane-by-Plane Inscription of Off-Center Tilted Bragg Gratings in CYTOP Fibers. IEEE Sensors Journal, 2022, 22, 11725-11731.	2.4	6
2	Strain Measurement in Hyrax Appliances Using FBG Sensors in a 3D-Printed Human Maxillary Model. IEEE Photonics Technology Letters, 2022, 34, 811-814.	1.3	1
3	Single Peak Fiber Bragg Grating Sensors in Tapered Multimode Polymer Optical Fibers. Journal of Lightwave Technology, 2021, 39, 6934-6941.	2.7	13
4	Femtosecond Laser Plane-by-Plane Inscribed Cavity Mirrors for Monolithic Fiber Lasers in Thulium-Doped Fiber. Sensors, 2021, 21, 1928.	2.1	1
5	In-Situ Relative Humidity Sensing for Ultra-High-Performance Concrete Using Polymer Fiber Bragg Gratings. IEEE Sensors Journal, 2021, 21, 16086-16092.	2.4	11
6	Distributed polymer optical fiber sensors: a review and outlook. Photonics Research, 2021, 9, 1719.	3.4	47
7	Femtosecond laser direct inscribed 45° tilted fiber grating for a net-normal-dispersion mode-locked Er-doped fiber laser. Optics and Laser Technology, 2021, 143, 107358.	2.2	4
8	Light Transmitting Concrete: A Review. Buildings, 2021, 11, 480.	1.4	21
9	Comparative Study of $\beta$ - and $\gamma$ -Radiation-Induced Effects on FBGs Using Different Femtosecond Laser Inscription Methods. Sensors, 2021, 21, 8379.	2.1	6
10	Recent trends and advances of fibre Bragg grating sensors in CYTOP polymer optical fibres. Optical Fiber Technology, 2020, 54, 102079.	1.4	58
11	All-in-Fiber Fabrication of Cladding Devices and Components Using Femtosecond Laser Pulses. , 2020, , .		0
12	Perfluorinated fiber material properties following femtosecond laser inscription. Optical Materials, 2020, 109, 110412.	1.7	3
13	Effective Cleaving Parameters for Multimode Gradient Index CYTOP Polymer Fiber. Polymers, 2020, 12, 2491.	2.0	2
14	FPI-POFBG Angular Movement Sensor Inscribed in CYTOP Fibers With Dynamic Angle Compensator. IEEE Sensors Journal, 2020, 20, 5962-5969.	2.4	21
15	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.	2.4	13
16	Optimizing Linearity and Sensitivity of 3D-Printed Diaphragms With Chirped FBGs in CYTOP Fibers. IEEE Access, 2020, 8, 31983-31991.	2.6	28
17	Femtosecond Laser Inscribed Tilted Gratings for Leaky Mode Excitation in Optical Fibers. Journal of Lightwave Technology, 2020, 38, 1921-1928.	2.7	9
18	Multimode Fiber Interferometer Based on Graded-Index Polymer CYTOP Fiber. Journal of Lightwave Technology, 2020, 38, 1439-1445.	2.7	19

#	ARTICLE	IF	CITATIONS
19	Femtosecond laser-written long period grating in a multimode CYTOP polymer fibre. , 2020, , .		2
20	Generation of Dissipative Soliton in Er-doped All-fiber Oscillator Based on a Femtosecond Laser Inscribed 45° Tilted Fiber Grating. , 2020, , .		0
21	Detection of water, oil and oil contamination in water using chirped fiber Bragg gratings inscribed in CYTOP fibers. , 2020, , .		1
22	Multimode CYTOP fiber interferometric response to laser wavelength scanning. , 2020, , .		2
23	Advanced concrete optical remote sensors: Structural Health monitoring of concrete buildings using polymer sensors. , 2020, , .		0
24	Femtosecond laser inscribed Mach-Zehnder Interferometer: a compound all-in-fiber versatile sensing device. , 2020, , .		0
25	Fiber Bragg Based Sensors for Foot Plantar Pressure Analysis. Communications in Computer and Information Science, 2019, , 3-25.	0.4	2
26	CYTOP Fibre Bragg Grating Sensors for Harsh Radiation Environments. Sensors, 2019, 19, 2853.	2.1	27
27	Twist dependencies of strain and temperature sensitivities of perfluorinated graded-index polymer optical fiber Bragg gratings. Applied Physics Express, 2019, 12, 082007.	1.1	7
28	All-Fiber Mode-Locked Thulium Doped Fiber Laser using a Novel Femtosecond Laser Inscribed 45° Tilted Fiber Grating. , 2019, , .		0
29	All fiber mode-locked thulium-doped fiber laser using a novel femtosecond-laser-inscribed 45°-plane-by-plane-tilted fiber grating. Laser Physics Letters, 2019, 16, 095104.	0.6	14
30	All-in-Fiber Cladding Interferometric and Bragg Grating Components Made via Plane-by-Plane Femtosecond Laser Inscription. Journal of Lightwave Technology, 2019, 37, 4864-4871.	2.7	24
31	Er/Yb Double-Clad Fiber Laser With fs-Laser Inscribed Plane-by-Plane Chirped FBG Laser Mirrors. IEEE Photonics Technology Letters, 2019, 31, 409-412.	1.3	18
32	Plane-by-Plane Written, Low-Loss Polymer Optical Fiber Bragg Grating Arrays for Multiparameter Sensing in a Smart Walker. IEEE Sensors Journal, 2019, 19, 9221-9228.	2.4	22
33	Potential of Discriminative Sensing of Strain and Temperature Using Perfluorinated Polymer FBG. IEEE Sensors Journal, 2019, 19, 4458-4462.	2.4	12
34	Quasi-Distributed Torque and Displacement Sensing on a Series Elastic Actuator's Spring Using FBG Arrays Inscribed in CYTOP Fibers. IEEE Sensors Journal, 2019, 19, 4054-4061.	2.4	70
35	Femtosecond Laser Written Plane-by-Plane Bragg Grating Sensors in Bioresorbable Phosphate Optical Fibres. Journal of Lightwave Technology, 2019, 37, 2363-2369.	2.7	7
36	Low-loss Polymer Optical Components and Cladding Interferometric Devices Inscribed Using Femtosecond Laser Inscription. , 2019, , .		0

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37	All-fiber Passively Mode-locked Femtosecond Laser Based on a Femtosecond Laser Inscribed 45° Tilted Fiber Grating. , 2019, , .		1
38	Lorentzian demodulation algorithm for multimode polymer optical fiber Bragg gratings. Japanese Journal of Applied Physics, 2019, 58, 028003.	0.8	5
39	Simultaneous Measurement of Axial Strain, Bending and Torsion With a Single Fiber Bragg Grating in CYTOP Fiber. Journal of Lightwave Technology, 2019, 37, 971-980.	2.7	85
40	All-fiber passively mode-locked ultrafast laser based on a femtosecond-laser-inscribed in-fiber Brewster device. Optics Letters, 2019, 44, 5177.	1.7	9
41	Long period grating in a multimode cyclic transparent optical polymer fiber inscribed using a femtosecond laser. Optics Letters, 2019, 44, 5346.	1.7	36
42	Femtosecond laser plane-by-plane Bragg gratings for monolithic Thulium-doped fibre laser operating at 1970 nm. , 2019, , .		1
43	Carbon coated FBGs inscribed using the plane-by-plane femtosecond laser inscription method. , 2019, , .		1
44	Multi-core optical fibre shape sensing with femtosecond laser inscribed bridging cladding waveguides. , 2019, , .		0
45	Fibre cladding interferometers and Bragg gratings made via plane by plane femtosecond laser inscription. , 2019, , .		1
46	Multimode fiber interferometer with embedded long period grating. , 2019, , .		0
47	Multimode CYTOP fiber interferometer: an experimental study. , 2019, , .		0
48	Monolithic fibre lasers developed using the plane-by-plane femtosecond laser inscription method. , 2019, , .		0
49	Carbon Cantilever Beam Health Inspection Using a Polymer Fiber Bragg Grating Array. Journal of Lightwave Technology, 2018, 36, 986-992.	2.7	54
50	Bragg Gratings and Fabry-Perot Cavities in Low-Loss Multimode CYTOP Polymer Fiber. IEEE Photonics Technology Letters, 2018, 30, 857-860.	1.3	47
51	Strain dependence of perfluorinated polymer optical fiber Bragg grating measured at different wavelengths. Japanese Journal of Applied Physics, 2018, 57, 038002.	0.8	12
52	All-Fiber Passively Mode-Locked Erbium-Doped Fiber Laser Using a Femtosecond Laser Inscribed 45°-Tilted Fiber Grating. , 2018, , .		0
53	Characterisation of silicon fibre Bragg grating in near-infrared band for strain and temperature sensing. Electronics Letters, 2018, 54, 1393-1395.	0.5	9
54	Fiber Bragg Gratings in CYTOP Fibers Embedded in a 3D-Printed Flexible Support for Assessment of Human-Robot Interaction Forces. Materials, 2018, 11, 2305.	1.3	60

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55	Improvements on the cross-correlation algorithm used for tracking fractional Bragg grating wavelength shifts in multimode fibres. <i>Optical Fiber Technology</i> , 2018, 46, 36-42.	1.4	4
56	Higher-order cladding mode excitation of femtosecond-laser-inscribed tilted FBGs. <i>Optics Letters</i> , 2018, 43, 2169.	1.7	11
57	Optical sensors for bond-slip characterization and monitoring of RC structures. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 332-339.	2.0	23
58	Polymer Optical Fiber Bragg Gratings in CYTOP Fibers for Angle Measurement with Dynamic Compensation. <i>Polymers</i> , 2018, 10, 674.	2.0	76
59	Thermal Treatments and Compensation Techniques for the Improved Response of FBG Sensors in POFs. <i>Journal of Lightwave Technology</i> , 2018, 36, 3611-3617.	2.7	15
60	Compensation Method for Temperature Cross-Sensitivity in Transverse Force Applications With FBG Sensors in POFs. <i>Journal of Lightwave Technology</i> , 2018, 36, 3660-3665.	2.7	74
61	Monolithic Er/Yb double-clad fibre laser with FBG inscribed using the direct-write plane-by-plane fs-laser inscription method. , 2018, , .		3
62	L-band CYTOP Bragg gratings for ultrasound sensing. , 2018, , .		1
63	Characterization of a new polymer optical fiber with enhanced sensing capabilities using a Bragg grating. <i>Optics Letters</i> , 2018, 43, 4799.	1.7	66
64	Foot Plantar Pressure Monitoring with CYTOP Bragg Gratings Sensing System. , 2018, , .		7
65	Zero-crossing algorithm for the demodulation of FBGs inscribed in gradient index multimode fibres. , 2018, , .		0
66	Plasmonic gas sensing in the C+L bands using femtosecond laser inscribed TFBGs. , 2018, , .		0
67	Femtosecond laser inscription of ultra-compact Mach-Zehnder fibre cladding interferometer incorporating FBG. , 2018, , .		2
68	Flexible direct write inscription of tilted fibre Bragg gratings using a femtosecond laser. , 2018, , .		0
69	Sensing capabilities of higher order cladding modes. , 2018, , .		2
70	Femtosecond laser processing of optical fibres for novel sensor development. <i>Proceedings of SPIE</i> , 2017, , .	0.8	4
71	Health monitoring of carbon cantilever using femtosecond laser inscribed FBG array in gradient-index CYTOP polymer fibre. , 2017, , .		0
72	Accurate and Fast Demodulation Algorithm for Multippeak FBG Reflection Spectra Using a Combination of Cross Correlation and Hilbert Transformation. <i>Journal of Lightwave Technology</i> , 2017, 35, 3956-3962.	2.7	28

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73	Plane-by-Plane Femtosecond Laser Inscription Method for Single-Peak Bragg Gratings in Multimode CYTOP Polymer Optical Fiber. Journal of Lightwave Technology, 2017, 35, 5404-5410.	2.7	103
74	Perfluorinated graded-index plastic optical fiber Bragg gratings: Observation and theoretical analysis of unique dependence on pressure. , 2017, , .		0
75	Pressure Dependence of Fiber Bragg Grating Inscribed in Perfluorinated Polymer Fiber. IEEE Photonics Technology Letters, 2017, 29, 2167-2170.	1.3	53
76	Laser structuring, stress modification and Bragg grating inscription in silicon-core glass fibers. Optical Materials Express, 2017, 7, 1589.	1.6	43
77	Direct writing of plane-by-plane tilted fiber Bragg gratings using a femtosecond laser. Optics Letters, 2017, 42, 5198.	1.7	75
78	POFBG-Embedded Cork Insole for Plantar Pressure Monitoring. Sensors, 2017, 17, 2924.	2.1	75
79	Modified fs-Laser Inscribed FBG Array for Rapid Mode Shape Capture of Free-Free Vibrating Beams. IEEE Photonics Technology Letters, 2016, 28, 1509-1512.	1.3	75
80	Low loss polymer fiber Bragg gratings sensors for effective optical sensing of strain and temperature. , 2016, , .		1
81	Beam-shaping via femtosecond laser-modified optical fibre end faces. Proceedings of SPIE, 2016, , .	0.8	2
82	Femtosecond laser waveguide and FBG inscription in four-core optical fibre. Proceedings of SPIE, 2016, , .	0.8	3
83	Femtosecond laser inscribed Bragg grating arrays in long lengths of polymer optical fibres; a route to practical sensing with POF. Electronics Letters, 2016, 52, 1626-1627.	0.5	41
84	Comparative study of multimode CYTOP graded index and single-mode silica fibre Bragg grating array for the mode shape capturing of a free-free metal beam. , 2016, , .		5
85	Femtosecond Laser Inscription of Multiplexed FBG Sensors in CYTOP Polymer Optical Fibres. , 2016, , .		2
86	Femtosecond Laser Inscribed Bragg Gratings in Low Loss CYTOP Polymer Optical Fiber. IEEE Photonics Technology Letters, 2015, 27, 693-696.	1.3	146
87	Bragg grating inscription in CYTOP polymer optical fibre using a femtosecond laser. , 2015, , .		1