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	Femtosecond Laser Inscribed Bragg Gratings in Low Loss CYTOP Polymer Optical Fiber. IEEE Photonics Technology Letters, 2015, 27, 693-696.	1.3	146
2	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
3	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
4	Polymer Optical Fiber Bragg Gratings in CYTOP Fibers for Angle Measurement with Dynamic Compensation. Polymers, 2018, 10, 674.	2.0	76
5	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
6	Direct writing of plane-by-plane tilted fiber Bragg gratings using a femtosecond laser. Optics Letters, 2017, 42, 5198.	1.7	75
7	POFBG-Embedded Cork Insole for Plantar Pressure Monitoring. Sensors, 2017, 17, 2924.	2.1	75
8	Compensation Method for Temperature Cross-Sensitivity in Transverse Force Applications With FBG Sensors in POFs. Journal of Lightwave Technology, 2018, 36, 3660-3665.	2.7	74
9	Quasi-Distributed Torque and Displacement Sensing on a Series Elastic Actuatorâ€™s Spring Using FBG Arrays Inscribed in CYTOP Fibers. IEEE Sensors Journal, 2019, 19, 4054-4061.	2.4	70
10	Characterization of a new polymer optical fiber with enhanced sensing capabilities using a Bragg grating. Optics Letters, 2018, 43, 4799.	1.7	66
11	Fiber Bragg Gratings in CYTOP Fibers Embedded in a 3D-Printed Flexible Support for Assessment of Humanâ€“Robot Interaction Forces. Materials, 2018, 11, 2305.	1.3	60
12	Recent trends and advances of fibre Bragg grating sensors in CYTOP polymer optical fibres. Optical Fiber Technology, 2020, 54, 102079.	1.4	58
13	Carbon Cantilever Beam Health Inspection Using a Polymer Fiber Bragg Grating Array. Journal of Lightwave Technology, 2018, 36, 986-992.	2.7	54
14	Pressure Dependence of Fiber Bragg Grating Inscribed in Perfluorinated Polymer Fiber. IEEE Photonics Technology Letters, 2017, 29, 2167-2170.	1.3	53
15	Bragg Gratings and Fabry-Perot Cavities in Low-Loss Multimode CYTOP Polymer Fiber. IEEE Photonics Technology Letters, 2018, 30, 857-860.	1.3	47
16	Distributed polymer optical fiber sensors: a review and outlook. Photonics Research, 2021, 9, 1719.	3.4	47
17	Laser structuring, stress modification and Bragg grating inscription in silicon-core glass fibers. Optical Materials Express, 2017, 7, 1589.	1.6	43
18	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

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19	Long period grating in a multimode cyclic transparent optical polymer fiber inscribed using a femtosecond laser. Optics Letters, 2019, 44, 5346.	1.7	36
20	Accurate and Fast Demodulation Algorithm for Multipeak FBG Reflection Spectra Using a Combination of Cross Correlation and Hilbert Transformation. Journal of Lightwave Technology, 2017, 35, 3956-3962.	2.7	28
21	Optimizing Linearity and Sensitivity of 3D-Printed Diaphragms With Chirped FBGs in CYTOP Fibers. IEEE Access, 2020, 8, 31983-31991.	2.6	28
22	CYTOP Fibre Bragg Grating Sensors for Harsh Radiation Environments. Sensors, 2019, 19, 2853.	2.1	27
23	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
24	Optical sensors for bond-slip characterization and monitoring of RC structures. Sensors and Actuators A: Physical, 2018, 280, 332-339.	2.0	23
25	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
26	FPI-POFBG Angular Movement Sensor Inscribed in CYTOP Fibers With Dynamic Angle Compensator. IEEE Sensors Journal, 2020, 20, 5962-5969.	2.4	21
27	Light Transmitting Concrete: A Review. Buildings, 2021, 11, 480.	1.4	21
28	Multimode Fiber Interferometer Based on Graded-Index Polymer CYTOP Fiber. Journal of Lightwave Technology, 2020, 38, 1439-1445.	2.7	19
29	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
30	Thermal Treatments and Compensation Techniques for the Improved Response of FBG Sensors in POFs. Journal of Lightwave Technology, 2018, 36, 3611-3617.	2.7	15
31	All fiber mode-locked thulium-doped fiber laser using a novel femtosecond-laser-inscribed 45Â°-plane-by-plane-tilted fiber grating. Laser Physics Letters, 2019, 16, 095104.	0.6	14
32	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
33	Single Peak Fiber Bragg Grating Sensors in Tapered Multimode Polymer Optical Fibers. Journal of Lightwave Technology, 2021, 39, 6934-6941.	2.7	13
34	Strain dependence of perfluorinated polymer optical fiber Bragg grating measured at different wavelengths. Japanese Journal of Applied Physics, 2018, 57, 038002.	0.8	12
35	Potential of Discriminative Sensing of Strain and Temperature Using Perfluorinated Polymer FBG. IEEE Sensors Journal, 2019, 19, 4458-4462.	2.4	12
36	Higher-order cladding mode excitation of femtosecond-laser-inscribed tilted FBGs. Optics Letters, 2018, 43, 2169.	1.7	11

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37	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
38	Characterisation of silicon fibre Bragg grating in nearâ€infrared band for strain and temperature sensing. Electronics Letters, 2018, 54, 1393-1395.	0.5	9
39	Femtosecond Laser Inscribed Tilted Gratings for Leaky Mode Excitation in Optical Fibers. Journal of Lightwave Technology, 2020, 38, 1921-1928.	2.7	9
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	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
42	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
43	Foot Plantar Pressure Monitoring with CYTOP Bragg Gratings Sensing System. , 2018, , .		7
44	Comparative Study of Î³- and e-Radiation-Induced Effects on FBGs Using Different Femtosecond Laser Inscription Methods. Sensors, 2021, 21, 8379.	2.1	6
45	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
46	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
47	Lorentzian demodulation algorithm for multimode polymer optical fiber Bragg gratings. Japanese Journal of Applied Physics, 2019, 58, 028003.	0.8	5
48	Femtosecond laser processing of optical fibres for novel sensor development. Proceedings of SPIE, 2017, , .	0.8	4
49	Improvements on the cross-correlation algorithm used for tracking fractional Bragg grating wavelength shifts in multimode fibres. Optical Fiber Technology, 2018, 46, 36-42.	1.4	4
50	Femtosecond laser direct inscribed 45Â° tilted fiber grating for a net-normal-dispersion mode-locked Er-doped fiber laser. Optics and Laser Technology, 2021, 143, 107358.	2.2	4
51	Femtosecond laser waveguide and FBG inscription in four-core optical fibre. Proceedings of SPIE, 2016, , .	0.8	3
52	Perfluorinated fiber material properties following femtosecond laser inscription. Optical Materials, 2020, 109, 110412.	1.7	3
53	Monolithic Er/Yb double-clad fibre laser with FBG inscribed using the direct-write plane-by-plane fs-laser inscription method. , 2018, , .		3
54	Beam-shaping via femtosecond laser-modified optical fibre end faces. Proceedings of SPIE, 2016, , .	0.8	2

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55	Fiber Bragg Based Sensors for Foot Plantar Pressure Analysis. Communications in Computer and Information Science, 2019, , 3-25.	0.4	2
56	Effective Cleaving Parameters for Multimode Gradient Index CYTOP Polymer Fiber. Polymers, 2020, 12, 2491.	2.0	2
57	Femtosecond Laser Inscription of Multiplexed FBG Sensors in CYTOP Polymer Optical Fibres. , 2016, , .		2
58	Femtosecond laser inscription of ultra-compact Mach-Zehnder fibre cladding interferometer incorporating FBG. , 2018, , .		2
59	Sensing capabilities of higher order cladding modes. , 2018, , .		2
60	Femtosecond laser-written long period grating in a multimode CYTOP polymer fibre. , 2020, , .		2
61	Multimode CYTOP fiber interferometric response to laser wavelength scanning. , 2020, , .		2
62	Bragg grating inscription in CYTOP polymer optical fibre using a femtosecond laser. , 2015, , .		1
63	Low loss polymer fiber Bragg gratings sensors for effective optical sensing of strain and temperature. , 2016, , .		1
64	All-fiber Passively Mode-locked Femtosecond Laser Based on a Femtosecond Laser Inscribed 45Â° Tilted Fiber Grating. , 2019, , .		1
65	Femtosecond Laser Plane-by-Plane Inscribed Cavity Mirrors for Monolithic Fiber Lasers in Thulium-Doped Fiber. Sensors, 2021, 21, 1928.	2.1	1
66	L-band CYTOP Bragg gratings for ultrasound sensing. , 2018, , .		1
67	Femtosecond laser plane-by-plane Bragg gratings for monolithic Thulium-doped fibre laser operating at 1970 nm. , 2019, , .		1
68	Carbon coated FBGs inscribed using the plane-by-plane femtosecond laser inscription method. , 2019, , .		1
69	Fibre cladding interferometers and Bragg gratings made via plane by plane femtosecond laser inscription. , 2019, , .		1
70	Detection of water, oil and oil contamination in water using chirped fiber Bragg gratings inscribed in CYTOP fibers. , 2020, , .		1
71	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
72	Health monitoring of carbon cantilever using femtosecond laser inscribed FBG array in gradient-index CYTOP polymer fibre. , 2017, , .		0

#	Article	IF	Citations
73	Perfluorinated graded-index plastic optical fiber Bragg gratings: Observation and theoretical analysis of unique dependence on pressure. , 2017, , .		0
74	All-Fiber Passively Mode-Locked Erbium-Doped Fiber Laser Using a Femtosecond Laser Inscribed 45Â°-Tilted Fiber Grating. , 2018, , .		0
75	All-Fiber Mode-Locked Thulium Doped Fiber Laser using a Novel Femtosecond Laser Inscribed 45Â° Tilted Fiber Grating. , 2019, , .		0
76	Low-loss Polymer Optical Components and Cladding Interferometric Devices Inscribed Using Femtosecond Laser Inscription. , 2019, , .		0
77	All-in-Fiber Fabrication of Cladding Devices and Components Using Femtosecond Laser Pulses. , 2020, , .		0
78	Zero-crossing algorithm for the demodulation of FBGs inscribed in gradient index multimode fibres. , 2018, , .		0
79	Plasmonic gas sensing in the C+L bands using femtosecond laser inscribed TFBGs. , 2018, , .		0
80	Flexible direct write inscription of tilted fibre Bragg gratings using a femtosecond laser. , 2018, , .		0
81	Multi-core optical fibre shape sensing with femtosecond laser inscribed bridging cladding waveguides. , 2019, , .		0
82	Multimode fiber interferometer with embedded long period grating. , 2019, , .		0
83	Multimode CYTOP fiber interferometer: an experimental study. , 2019, , .		0
84	Monolithic fibre lasers developed using the plane-by-plane femtosecond laser inscription method. , 2019, , .		0
85	Generation of Dissipative Soliton in Er-doped All-fiber Oscillator Based on a Femtosecond Laser Inscribed 45Â° Tilted Fiber Grating. , 2020, , .		0
86	Advanced concrete optical remote sensors: Structural Health monitoring of concrete buildings using polymer sensors. , 2020, , .		0
87	Femtosecond laser inscribed Mach-Zehnder Interferometer: a compound all-in-fiber versatile sensing device. , 2020, , .		0