

David J Webb

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5026604/publications.pdf>

Version: 2024-02-01

288
papers

7,464
citations

50170

46
h-index

71532

76
g-index

291
all docs

291
docs citations

291
times ranked

3662
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and theoretical studies on a distributed temperature sensor based on Brillouin scattering. Journal of Lightwave Technology, 1995, 13, 1340-1348.	2.7	237
2	Humidity insensitive TOPAS polymer fiber Bragg grating sensor. Optics Express, 2011, 19, 19731.	1.7	236
3	32-km distributed temperature sensor based on Brillouin loss in an optical fiber. Optics Letters, 1993, 18, 1561.	1.7	230
4	Continuous wave ultraviolet light-induced fiber Bragg gratings in few- and single-mode microstructured polymer optical fibers. Optics Letters, 2005, 30, 3296.	1.7	182
5	In-fiber Bragg-grating temperature sensor system for medical applications. Journal of Lightwave Technology, 1997, 15, 779-785.	2.7	178
6	A high sensitivity refractometer based upon a long period grating Mach-Zehnder interferometer. Review of Scientific Instruments, 2002, 73, 1702-1705.	0.6	176
7	Transient response in high-resolution Brillouin-based distributed sensing using probe pulses shorter than the acoustic relaxation time. Optics Letters, 2000, 25, 156.	1.7	157
8	Investigation Into Time Response of Polymer Fiber Bragg Grating Based Humidity Sensors. Journal of Lightwave Technology, 2012, 30, 1090-1096.	2.7	156
9	Highly sensitive liquid level monitoring system utilizing polymer fiber Bragg gratings. Optics Express, 2015, 23, 6058.	1.7	155
10	Transversal and Longitudinal Images from the Retina of the Living Eye Using Low Coherence Reflectometry. Journal of Biomedical Optics, 1998, 3, 12.	1.4	149
11	Combined distributed temperature and strain sensor based on Brillouin loss in an optical fiber. Optics Letters, 1994, 19, 141.	1.7	138
12	22-km distributed temperature sensor using Brillouin gain in an optical fiber. Optics Letters, 1993, 18, 552.	1.7	137
13	Coherence imaging by use of a Newton rings sampling function. Optics Letters, 1996, 21, 1789.	1.7	129
14	Fibre Bragg grating sensors in polymer optical fibres. Measurement Science and Technology, 2015, 26, 092004.	1.4	128
15	Simultaneous measurement of temperature and strain: cross-sensitivity considerations. Journal of Lightwave Technology, 1990, 8, 138-142.	2.7	127
16	Highly Sensitive Bend Sensor Based on Bragg Grating in Eccentric Core Polymer Fiber. IEEE Photonics Technology Letters, 2010, 22, 850-852.	1.3	126
17	Strain and temperature sensitivity of a single-mode polymer optical fiber. Optics Letters, 2005, 30, 3129.	1.7	120
18	Thermal response of Bragg gratings in PMMA microstructured optical fibers. Optics Express, 2007, 15, 8844.	1.7	119

#	ARTICLE	IF	CITATIONS
19	Optical fibre temperature and humidity sensor. Electronics Letters, 2010, 46, 643.	0.5	105
20	Humidity responsivity of poly(methyl methacrylate)-based optical fiber Bragg grating sensors. Optics Letters, 2014, 39, 3026.	1.7	99
21	Long period grating in multicore optical fiber: an ultra-sensitive vector bending sensor for low curvatures. Optics Letters, 2014, 39, 3508.	1.7	96
22	Optical fibre Bragg grating recorded in TOPAS cyclic olefin copolymer. Electronics Letters, 2011, 47, 271.	0.5	92
23	Simultaneous en-face imaging of two layers in the human retina by low-coherence reflectometry. Optics Letters, 1997, 22, 1039.	1.7	89
24	A fast response intrinsic humidity sensor based on an etched singlemode polymer fiber Bragg grating. Sensors and Actuators A: Physical, 2013, 203, 107-111.	2.0	86
25	Measured sensitivity of arc-induced long-period grating sensors in photonic crystal fibre. Optics Communications, 2006, 260, 184-191.	1.0	84
26	Acousto-Optic Effect in Microstructured Polymer Fiber Bragg Gratings: Simulation and Experimental Overview. Journal of Lightwave Technology, 2013, 31, 1551-1558.	2.7	74
27	Polarization effects in polymer FBGs: study and use for transverse force sensing. Optics Express, 2015, 23, 4581.	1.7	71
28	Sensitivity of LPGs in PCFs Fabricated by an Electric Arc to Temperature, Strain, and External Refractive Index. Journal of Lightwave Technology, 2007, 25, 1306-1312.	2.7	70
29	Highly photosensitive polymethyl methacrylate microstructured polymer optical fiber with doped core. Optics Letters, 2013, 38, 3769.	1.7	70
30	First in-vivo trials of a fiber Bragg grating based temperature profiling system. Journal of Biomedical Optics, 2000, 5, 45.	1.4	68
31	Polymer optical fiber Bragg grating inscription with a single UV laser pulse. Optics Express, 2017, 25, 9028.	1.7	68
32	Photonic gas sensors exploiting directly the optical properties of hybrid carbon nanotube localized surface plasmon structures. Light: Science and Applications, 2016, 5, e16036-e16036.	7.7	67
33	Optical In-Fiber Bragg Grating Sensor Systems for Medical Applications. Journal of Biomedical Optics, 1998, 3, 38.	1.4	65
34	Long period gratings written into a photonic crystal fibre by a femtosecond laser as directional bend sensors. Optics Communications, 2008, 281, 5092-5096.	1.0	65
35	Ultrasonic hydrophone based on short in-fiber Bragg gratings. Applied Optics, 1998, 37, 8120.	2.1	64
36	Bending and Orientational Characteristics of Long Period Gratings Written in D-Shaped Optical Fiber. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 130-135.	2.4	64

#	ARTICLE	IF	CITATIONS
37	Narrow bandwidth Bragg gratings imprinted in polymer optical fibers for different spectral windows. <i>Optics Communications</i> , 2013, 307, 57-61.	1.0	62
38	Fast Bragg Grating Inscription in PMMA Polymer Optical Fibres: Impact of Thermal Pre-Treatment of Preforms. <i>Sensors</i> , 2017, 17, 891.	2.1	62
39	Observations of spatial subharmonics arising during two-wave mixing in BSO. <i>Optics Communications</i> , 1990, 74, 386-388.	1.0	61
40	Aviation Fuel Gauging Sensor Utilizing Multiple Diaphragm Sensors Incorporating Polymer Optical Fiber Bragg Gratings. <i>IEEE Sensors Journal</i> , 2016, 16, 6122-6129.	2.4	61
41	Bragg grating in a polymer optical fibre for strain, bend and temperature sensing. <i>Measurement Science and Technology</i> , 2010, 21, 094005.	1.4	57
42	Chirped Bragg Gratings in PMMA Step-Index Polymer Optical Fiber. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 500-503.	1.3	55
43	A comparison of the sensing characteristics of long period gratings written in three different types of fiber. <i>Optical Fiber Technology</i> , 2003, 9, 210-223.	1.4	53
44	In-fibre Bragg gratings for ultrasonic medical applications. <i>Measurement Science and Technology</i> , 1997, 8, 1050-1054.	1.4	48
45	Polymer optical fiber Bragg grating acting as an intrinsic biochemical concentration sensor. <i>Optics Letters</i> , 2012, 37, 1370.	1.7	48
46	827-nm Bragg grating sensor in multimode microstructured polymer optical fibre. <i>Electronics Letters</i> , 2010, 46, 1217.	0.5	47
47	An ultra-sensitive aptasensor on optical fibre for the direct detection of bisphenol A. <i>Biosensors and Bioelectronics</i> , 2019, 135, 102-110.	5.3	46
48	PMMA Based Optical Fiber Bragg Grating for Measuring Moisture in Transformer Oil. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2427-2430.	1.3	41
49	Generation of infrared surface plasmon resonances with high refractive index sensitivity utilizing tilted fiber Bragg gratings. <i>Applied Optics</i> , 2007, 46, 5456.	2.1	40
50	Spatially-multiplexed fibre-optic Bragg grating strain and temperature sensor system based on interferometric wavelength-shift detection. <i>Electronics Letters</i> , 1995, 31, 1009-1010.	0.5	39
51	Measurements of polarimetric sensitivity to hydrostatic pressure, strain and temperature in birefringent dual-core microstructured polymer fiber. <i>Optics Express</i> , 2010, 18, 12076.	1.7	39
52	Onset of subharmonics generated by forward wave interactions in Bi12SiO20. <i>Applied Physics Letters</i> , 1990, 57, 1602-1604.	1.5	38
53	Generation of Spatial Subharmonic Gratings in the Absence of Photorefractive Beam Coupling. <i>Physical Review Letters</i> , 1994, 73, 3082-3084.	2.9	37
54	<title>Miniature fiber optic ultrasonic probe</title>. , 1996, 2839, 76.		36

#	ARTICLE	IF	CITATIONS
55	Embedded progressive-three-layered fiber long-period gratings for respiratory monitoring. Journal of Biomedical Optics, 2003, 8, 552.	1.4	36
56	Measurements of stress-optic coefficient in polymer optical fibers. Optics Letters, 2010, 35, 2013.	1.7	36
57	Molecular alignment relaxation in polymer optical fibers for sensing applications. Optical Fiber Technology, 2016, 28, 11-17.	1.4	36
58	Femtosecond laser-induced microstructures on diamond for microfluidic sensing device applications. Applied Physics Letters, 2013, 102, .	1.5	35
59	Photosensitivity mechanism of undoped poly(methyl methacrylate) under UV radiation at 325nm and its spatial resolution limit. Optics Letters, 2014, 39, 3421.	1.7	35
60	Distributed temperature-change sensor based on Rayleigh backscattering in an optical fiber. Optics Letters, 1994, 19, 593.	1.7	34
61	Bending characteristics of fiber long-period gratings with cladding index modified by femtosecond laser. Journal of Lightwave Technology, 2006, 24, 3147-3154.	2.7	34
62	Water detection in jet fuel using a polymer optical fibre Bragg grating. Proceedings of SPIE, 2009, , .	0.8	34
63	Influence of mounting on the hysteresis of polymer fiber Bragg grating strain sensors. Optics Letters, 2013, 38, 1376.	1.7	34
64	Application of long-period-grating sensors to respiratory plethysmography. Journal of Biomedical Optics, 2007, 12, 064003.	1.4	33
65	Characterization of infrared surface plasmon resonances generated from a fiber-optical sensor utilizing tilted Bragg gratings. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 481.	0.9	33
66	Graphene-Based D-Shaped Polymer FBG for Highly Sensitive Erythrocyte Detection. IEEE Photonics Technology Letters, 2015, 27, 2399-2402.	1.3	33
67	Electrically tunable Bragg gratings in single-mode polymer optical fiber. Optics Letters, 2007, 32, 214.	1.7	31
68	Ultra Small Integrated Optical Fiber Sensing System. Sensors, 2012, 12, 12052-12069.	2.1	31
69	Non-invasive respiratory monitoring using long-period fiber grating sensors. Biomedical Optics Express, 2014, 5, 1136.	1.5	31
70	Investigations of the spectral sensitivity of long period gratings fabricated three-layered optical fiber. Journal of Lightwave Technology, 2003, 21, 264-268.	2.7	30
71	Exploitation of multilayer coatings for infrared surface plasmon resonance fiber sensors. Applied Optics, 2009, 48, 276.	2.1	30
72	Respiratory function monitoring using a real-time three-dimensional fiber-optic shaping sensing scheme based upon fiber Bragg gratings. Journal of Biomedical Optics, 2012, 17, 117001.	1.4	30

#	ARTICLE	IF	CITATIONS
73	Displacement sensor using channelled spectrum dispersed on a linear CCD array. Electronics Letters, 1993, 29, 896-897.	0.5	29
74	Ultrasonic field and temperature sensor based on short in-fibre Bragg gratings. Electronics Letters, 1998, 34, 1139.	0.5	29
75	Development of an electrically tuneable Bragg grating filter in polymer optical fibre operating at 1.55 Åµm. Measurement Science and Technology, 2007, 18, 3155-3164.	1.4	29
76	Stress Sensitivity Analysis of Optical Fiber Bragg Grating-Based Fabry-Pérot Interferometric Sensors. Journal of Lightwave Technology, 2017, 35, 2654-2659.	2.7	29
77	Exact solution of the Bragg-difraction problem in sillenites. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 1813.	0.9	28
78	Fundamental characteristics of space-charge waves in photorefractive sillenite crystals. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 2573.	0.9	28
79	Optical Fiber Cavity Ring Down Measurement of Refractive Index With a Microchannel Drilled by Femtosecond Laser. IEEE Photonics Technology Letters, 2009, 21, 1653-1655.	1.3	28
80	Fibre Bragg grating sensors for distributive tactile sensing. Measurement Science and Technology, 2007, 18, 138-146.	1.4	27
81	Enhancing the sensitivity of poly(methyl methacrylate) based optical fiber Bragg grating temperature sensors. Optics Letters, 2015, 40, 4046.	1.7	27
82	Water Diffusion Into UV Inscripted Long Period Grating in Microstructured Polymer Fiber. IEEE Sensors Journal, 2010, 10, 1169-1173.	2.4	26
83	Characterizing femtosecond laser inscribed Bragg grating spectra. Optics Express, 2011, 19, 342.	1.7	26
84	Demountable connection for polymer optical fiber grating sensors. Optical Engineering, 2012, 51, 080503-1.	0.5	26
85	Brillouin based distributed fibre sensor incorporating a mode-locked Brillouin fibre ring laser. Optics Communications, 1998, 152, 263-268.	1.0	25
86	The interrogation and multiplexing of long period grating curvature sensors using a Bragg grating based, derivative spectroscopy technique. Measurement Science and Technology, 2004, 15, 44-48.	1.4	25
87	Formation and Characterization of Ultra-Sensitive Surface Plasmon Resonance Sensor Based Upon a Nano-Scale Corrugated Multi-Layered Coated D-Shaped Optical Fiber. IEEE Journal of Quantum Electronics, 2012, 48, 394-405.	1.0	25
88	The accuracy of parameter estimation from noisy data, with application to resonance peak estimation in distributed Brillouin sensing. Measurement Science and Technology, 1998, 9, 50-57.	1.4	24
89	25 km Brillouin based single-ended distributed fibre sensor for threshold detection of temperature or strain. Optics Communications, 1999, 168, 95-102.	1.0	24
90	Biochemical sensor based on a novel all-fibre cavity ring down spectroscopy technique incorporating a tilted fibre Bragg grating. Optics and Lasers in Engineering, 2009, 47, 1023-1027.	2.0	23

#	ARTICLE	IF	CITATIONS
91	Multiplexed FBG sensor recorded in multimode microstructured polymer optical fibre. Proceedings of SPIE, 2010, , .	0.8	23
92	Spectral characteristics and thermal evolution of long-period gratings in photonic crystal fibers fabricated with a near-IR radiation femtosecond laser using point-by-point inscription. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2105.	0.9	23
93	Low frequency peculiarities of the photorefractive response in sillenites. Optics Communications, 1995, 113, 371-377.	1.0	22
94	Simultaneous interrogation of interferometric and Bragg grating sensors. Optics Letters, 1995, 20, 1340.	1.7	22
95	Investigation of photorefractive subharmonics in the absence of wave mixing. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1621.	0.9	22
96	High-resolution, wavelength-division-multiplexed in-fibre Bragg grating sensor system. Electronics Letters, 1996, 32, 924.	0.5	22
97	Optical-Fiber Sensors. MRS Bulletin, 2002, 27, 359-364.	1.7	22
98	Extended range interrogation of wavelength division multiplexed fibre Bragg grating sensors using arrayed waveguide grating. Electronics Letters, 2003, 39, 1714.	0.5	22
99	The effects of optical activity and absorption on two-wave mixing in Bi ₁₂ SiO ₂₀ . Optics Communications, 1991, 83, 287-294.	1.0	21
100	Demultiplexing of fibre Bragg grating temperature and strain sensors. Optics Communications, 1994, 111, 51-54.	1.0	21
101	20-km distributed temperature sensor based on spontaneous Brillouin scattering. IEEE Photonics Technology Letters, 2000, 12, 1367-1369.	1.3	21
102	Forward wave interactions in photorefractive materials. Progress in Quantum Electronics, 1994, 18, 377-450.	3.5	20
103	Verification of the standard model of the photorefractive nonlinearity in BSO crystals. Optics Communications, 1994, 108, 31-36.	1.0	19
104	Optical activity in photorefractive Bi ₁₂ TiO ₂₀ . Optics Communications, 1998, 146, 62-68.	1.0	19
105	Low refractive index gas sensing using a surface plasmon resonance fibre device. Measurement Science and Technology, 2010, 21, 094029.	1.4	19
106	Hydrostatic pressure sensing using a polymer optical fibre Bragg gratings. Proceedings of SPIE, 2012, , .	0.8	19
107	Water content detection in aviation fuel by using PMMA based optical fiber grating. Sensors and Actuators B: Chemical, 2019, 282, 774-779.	4.0	19
108	Discrimination between strain and temperature effects using first and second-order diffraction from a long-period grating. Optics Communications, 2002, 211, 103-108.	1.0	18

#	ARTICLE	IF	CITATIONS
109	Extended-range interferometry using a coherence-tuned, synthesised dual-wavelength technique with multimode fibre links. <i>Electronics Letters</i> , 1988, 24, 1173.	0.5	16
110	Distributed temperature sensor based on Brillouin loss in an optical fibre for transient threshold monitoring. <i>Canadian Journal of Physics</i> , 1996, 74, 1-3.	0.4	16
111	Enhancing the humidity response time of polymer optical fiber Bragg grating by using laser micromachining. <i>Optics Express</i> , 2015, 23, 25942.	1.7	16
112	A Self-Referenced Optical Intensity Sensor Network Using POFBGs for Biomedical Applications. <i>Sensors</i> , 2014, 14, 24029-24045.	2.1	15
113	Channeled spectrum liquid refractometer. <i>Review of Scientific Instruments</i> , 1993, 64, 3028-3029.	0.6	14
114	Channelled spectrum display using a CCD array for student laboratory demonstrations. <i>European Journal of Physics</i> , 1994, 15, 266-271.	0.3	14
115	Interrogation of fibre Bragg grating sensors using an arrayed waveguide grating. <i>Measurement Science and Technology</i> , 2005, 16, 691-698.	1.4	14
116	Grating based devices in polymer optical fibre. , 2006, , .		14
117	Effects of annealing, pre-tension and mounting on the hysteresis of polymer strain sensors. <i>Measurement Science and Technology</i> , 2014, 25, 015102.	1.4	14
118	Passive and Portable Polymer Optical Fiber Cleaver. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2834-2837.	1.3	14
119	Thermal effects on the photoelastic coefficient of polymer optical fibers. <i>Optics Letters</i> , 2016, 41, 2517.	1.7	14
120	Temperature non-uniformity in distributed temperature sensors. <i>Electronics Letters</i> , 1993, 29, 976-978.	0.5	13
121	Wavelength-division and spatial multiplexing using tandem interferometers for Bragg grating sensor networks. <i>Optics Letters</i> , 1995, 20, 2544.	1.7	13
122	Investigation of two-wave mixing in arbitrary oriented sillenite crystals. <i>Applied Physics B: Lasers and Optics</i> , 1996, 64, 49-56.	1.1	13
123	Excitation of higher spatial harmonics by a moving light pattern in sillenites. <i>Optics Communications</i> , 1996, 131, 315-321.	1.0	13
124	Temperature sensitivity of Bragg gratings in PMMA and TOPAS microstructured polymer optical fibres. <i>Proceedings of SPIE</i> , 2008, , .	0.8	13
125	Cardiac-induced localized thoracic motion detected by a fiber optic sensing scheme. <i>Journal of Biomedical Optics</i> , 2014, 19, 117006.	1.4	13
126	Microstructured waveguides in z-cut LiNbO ₃ by high-repetition rate direct femtosecond laser inscription. <i>Optical Materials Express</i> , 2014, 4, 1708.	1.6	13

#	ARTICLE	IF	CITATIONS
127	Time-dependent variation of fiber Bragg grating reflectivity in PMMA-based polymer optical fibers. Optics Letters, 2015, 40, 1476.	1.7	13
128	Real-time kinetic binding studies at attomolar concentrations in solution phase using a single-stage opto-biosensing platform based upon infrared surface plasmons. Optics Express, 2017, 25, 39.	1.7	13
129	Extended-range fiber polarimetric strain sensor. Optics Letters, 1987, 12, 744.	1.7	12
130	22 km distributed strain sensor using Brillouin loss in an optical fibre. Optics Communications, 1994, 104, 298-302.	1.0	12
131	Combined ultrasound and temperature sensor using a fibre Bragg grating. Optics Communications, 1999, 171, 225-231.	1.0	12
132	Simultaneous interrogation of fiber Bragg grating sensors using an acoustooptic tunable filter. IEEE Photonics Technology Letters, 2001, 13, 1215-1217.	1.3	12
133	Optical bend sensor for vector curvature measurement based on Bragg grating in eccentric core polymer optical fibre. , 2009, , .		12
134	Embedding silica and polymer fibre Bragg gratings (FBG) in plastic 3D-printed sensing patches. Proceedings of SPIE, 2016, , .	0.8	12
135	<title>Recent developments in optical fiber sensing using fiber Bragg gratings</title>. , 1996, , .		11
136	Optical-Fiber Sensors: An Overview. MRS Bulletin, 2002, 27, 365-369.	1.7	11
137	Sensing characteristics of a novel two-section long-period grating. Applied Optics, 2003, 42, 3766.	2.1	11
138	Multilayered coated infra-red surface plasmon resonance fibre sensors for aqueous chemical sensing. Optical Fiber Technology, 2009, 15, 477-482.	1.4	11
139	Superstructure Fiber Gratings Via Single Step Femtosecond Laser Inscription. Journal of Lightwave Technology, 2012, 30, 1229-1236.	2.7	11
140	Connectorisation of fibre Bragg grating sensors recorded in microstructured polymer optical fibre. Proceedings of SPIE, 2013, , .	0.8	11
141	Novel thermal annealing methodology for permanent tuning polymer optical fiber Bragg gratings to longer wavelengths. Optics Express, 2018, 26, 1411.	1.7	11
142	Fiberised set-up for eye length measurement. Optics Communications, 1997, 137, 397-405.	1.0	10
143	Photorefractive subharmonicsâ€™a beam-coupling effect?. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1528.	0.9	10
144	Applications of polymer optical fibre grating sensors to condition monitoring of textiles. , 2009, , .		10

#	ARTICLE	IF	CITATIONS
145	Extended-range, low coherence dual wavelength interferometry using a superfluorescent fibre source and chirped fibre Bragg gratings. Optics Communications, 1997, 134, 341-348.	1.0	9
146	A comparison of the spectral properties of high temperature annealed long-period gratings inscribed by fs laser, UV, and fusion-arc. , 2006, 6193, 176.		9
147	Utilisation of thermal annealing to record multiplexed FBG sensors in multimode microstructured polymer optical fibre. , 2011, , .		9
148	Arbitrary real-time three-dimensional corporal object sensing and reconstruction scheme. Optics Letters, 2012, 37, 3549.	1.7	9
149	Physical characteristics of localized surface plasmons resulting from nano-scale structured multi-layer thin films deposited on D-shaped optical fiber. Optics Express, 2013, 21, 18765.	1.7	9
150	Methane detection scheme based upon the changing optical constants of a zinc oxide/platinum matrix created by a redox reaction and their effect upon surface plasmons. Sensors and Actuators B: Chemical, 2018, 255, 843-853.	4.0	9
151	Influence of beam-coupling on photorefractive parametric oscillation in a dc-field-biased Bi ₁₂ SiO ₂₀ crystal. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 2439.	0.9	8
152	<title>Application of long-period grating sensors to respiratory function monitoring</title>. , 2004, 5588, 148.		8
153	Annealing effects on strain and stress sensitivity of polymer optical fibre based sensors. , 2016, , .		8
154	Interferometric optical path difference measurement using sinusoidal frequency modulation of a diode laser. Optics Communications, 1988, 66, 245-248.	1.0	7
155	Theoretical study of Talbot-like bands observed using a laser diode below threshold. Journal of Optics, 1998, 7, 517-536.	0.5	7
156	Distributive tactile sensing using fibre Bragg grating sensors. , 2006, 6191, 249.		7
157	Aptamer-based surface plasmon fibre sensor for thrombin detection. , 2010, , .		7
158	Photonic skin for pressure and strain sensing. Proceedings of SPIE, 2010, , .	0.8	7
159	Improved time response for polymer fibre Bragg grating based humidity sensors. , 2011, , .		7
160	Fibre-grating sensors for the measurement of physiological pulsations. Physica Scripta, 2013, T157, 014022.	1.2	7
161	Factors influencing the temperature sensitivity of PMMA based optical fiber Bragg gratings. , 2014, , .		7
162	Wavelength Drift of PMMA-Based Optical Fiber Bragg Grating Induced by Optical Absorption. IEEE Photonics Technology Letters, 2015, 27, 336-339.	1.3	7

#	ARTICLE	IF	CITATIONS
163	Microstructured polymer optical fibre sensors for opto-acoustic endoscopy. , 2016, , .		7
164	Amplification of temporally modulated signal beams by two-wave mixing in Bi ₁₂ SiO ₂₀ . Journal of the Optical Society of America B: Optical Physics, 1990, 7, 2369.	0.9	6
165	Characteristics of Brillouin gain based distributed temperature sensors. Electronics Letters, 1993, 29, 1543.	0.5	6
166	Recent progress in distributed fiber optic sensors based upon Brillouin scattering. , 1995, 2507, 175.		6
167	Recent developments of Bragg gratings in PMMA and TOPAS polymer optical fibers. Proceedings of SPIE, 2008, , .	0.8	6
168	Polymer photonic crystal fibre for sensor applications. , 2010, , .		6
169	Polymer PCF Bragg grating sensors based on poly(methyl methacrylate) and TOPAS cyclic olefin copolymer. , 2011, , .		6
170	Inscription of narrow bandwidth Bragg gratings in polymer optical fibers. Journal of Optics (United Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	6
171	Highly sensitive, localized surface plasmon resonance fiber device for environmental sensing, based upon a structured bi-metal array of nano-wires. Optics Letters, 2014, 39, 5798.	1.7	6
172	A novel interferometric liquid refractometer. Review of Scientific Instruments, 1989, 60, 3347-3348.	0.6	5
173	Observations of diffraction and self-diffraction effects during two-wave mixing in a nematic liquid crystal. Optics Communications, 1992, 89, 283-288.	1.0	5
174	<title>Simple multiplexing scheme for fiber optic grating sensor networks</title>. , 1993, 2071, 163.		5
175	Recent progress in experiments on a Brillouin loss-based distributed sensor. , 1994, , .		5
176	Resonant two-wave mixing in photorefractive materials with the aid of dc and ac fields. Optics Letters, 1997, 22, 1852.	1.7	5
177	<title>Medical ultrasound detection using fiber Bragg gratings</title>. , 1999, , .		5
178	Tapered fibre LPG device as a sensing element for refractive index. , 2005, , .		5
179	Fibre Bragg grating sensor interrogation using an acousto-optic tunable filter and low-coherence interferometry. Measurement Science and Technology, 2007, 18, 2967-2971.	1.4	5
180	Research Activities Arising From the University of Kent. Photonic Sensors, 2011, 1, 140-151.	2.5	5

#	ARTICLE	IF	CITATIONS
181	Photonic crystal fiber Bragg grating based sensors: opportunities for applications in healthcare. Proceedings of SPIE, 2011, , .	0.8	5
182	Frequency-locked diode laser for interferometric sensing systems. Electronics Letters, 1988, 24, 1002.	0.5	5
183	Two-wave mixing in BTO crystals in the presence of detuning. Optics Communications, 1991, 84, 90-94.	1.0	4
184	<title>Probe for measuring ultrasonic fields using short in-fiber Bragg gratings</title>. , 1998, , .		4
185	High birefringence fibre interrogating interferometer for optical sensing applications. Electronics Letters, 2005, 41, 235.	0.5	4
186	Micro-fabrication of advanced photonic devices by means of direct point-by-point femtosecond inscription in silica. , 2006, , .		4
187	Multiple Period Resonances in Long Period Gratings in Photonic Crystal Fibres. Optical and Quantum Electronics, 2006, 38, 209-216.	1.5	4
188	Nondestructive index profiling of long period gratings in photonic crystal fibres. Optical and Quantum Electronics, 2007, 38, 913-920.	1.5	4
189	Comparison between femtosecond laser and fusion-arc inscribed long period gratings in photonic crystal fibre. Proceedings of SPIE, 2009, , .	0.8	4
190	Applications of polymer optical fibre grating sensors to condition monitoring of textiles. Journal of Physics: Conference Series, 2009, 178, 012020.	0.3	4
191	A compact, portable and low cost generic interrogation strain sensor system using an embedded VCSEL, detector and fibre Bragg grating. , 2012, , .		4
192	A new method for respiratory-volume monitoring based on long-period fibre gratings. , 2013, 2013, 2660-3.		4
193	Polymer optical fiber grating as water activity sensor. , 2014, , .		4
194	Detection of nitrous oxide using infrared optical plasmonics coupled with carbon nanotubes. Nanoscale Advances, 2020, 2, 4615-4626.	2.2	4
195	Polymer optical fibre Bragg gratings. , 2012, , .		4
196	Surface Plasmon Resonance Generation Utilising Gratings for Biochemical Sensing. , 2006, , .		4
197	Experiments and analysis of combined diffraction and self-diffraction effects in a nematic-liquid-crystal cell. Physical Review E, 1993, 48, 1172-1181.	0.8	3
198	Bragg grating temperature and strain sensors. , 1994, , .		3

#	ARTICLE	IF	CITATIONS
199	Possible approach for the simultaneous measurement of temperature and strain via first- and second-order diffraction from Bragg grating sensors. , 1995, , .		3
200	Talbot-like bands for a laser diode below threshold. Journal of Optics, 1997, 6, 413-424.	0.5	3
201	Temperature insensitive long-period grating sensors in photonic crystal fiber. , 2004, 5579, 66.		3
202	Interferometric and fibre Bragg grating sensor interrogation using an arrayed waveguide grating. , 2004, , .		3
203	Respiratory monitoring using fibre long period grating sensors. , 2005, , .		3
204	Annealing and spectral characteristics of femtosecond laser inscribed long period gratings written into a photonic crystal fibre. , 2008, , .		3
205	Rib-cage-movement measurements as a potential new trigger signal in non-invasive mechanical ventilation. , 2015, 2015, 4511-4.		3
206	A compact polymer optical fibre ultrasound detector. , 2016, , .		3
207	Performances of PMMA-Based Optical Fiber Bragg Grating Sensor in Extended Temperature Range. Photonics, 2021, 8, 180.	0.9	3
208	Highly Efficient Side-Coupled Acousto-Optic Modulation of a Suspended Core Fiber Bragg Grating. IEEE Photonics Technology Letters, 2021, 33, 1379-1382.	1.3	3
209	<title>Design study of fiber-optic based Fabry-Perot type interferometric sensors using low-coherence signal recovery</title>. , 1994, 2070, 360.		2
210	<title>Compatibility of transversal OCT imaging with confocal imaging of the retina in vivo</title>. , 1999, , .		2
211	Distributed sensor for detection of impending structural failure along a 25km optical fibre with 2 metres spatial resolution. Structural Control and Health Monitoring, 2000, 7, 23-34.	0.4	2
212	The bending and temperature characteristics of long period gratings written in elliptical core step-index fibre. , 2005, 5855, 711.		2
213	Interferometric sensor interrogation using an arrayed waveguide grating. IEEE Photonics Technology Letters, 2005, 17, 172-174.	1.3	2
214	Implications of high power losses in IR femtosecond laser inscribed fiber Bragg gratings. , 2006, , .		2
215	The spectral characteristics of femtosecond laser inscribed long period grating bend sensors written into a photonic crystal fibre. Proceedings of SPIE, 2008, , .	0.8	2
216	A surface plasmon resonance fibre device for environmental sensing. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
217	Photonic skins for optical sensing: highlights of the PHOSFOS Project. , 2009, , .		2
218	Discriminating contact in lumen with a moving flexible digit using fibre Bragg grating sensing elements. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 765-774.	1.0	2
219	An investigation into the wavelength stability of polymer optical fibre Bragg gratings. Proceedings of SPIE, 2012, , .	0.8	2
220	An intrinsic biochemical concentration sensor using a polymer optical fibre Bragg grating. Proceedings of SPIE, 2012, , .	0.8	2
221	Investigations on birefringence effects in polymer optical fiber Bragg gratings. , 2014, , .		2
222	Measuring water activity of aviation fuel using a polymer optical fiber Bragg grating. Proceedings of SPIE, 2014, , .	0.8	2
223	Fiber optic liquid level monitoring system using microstructured polymer fiber Bragg grating array sensors: performance analysis. , 2015, , .		2
224	Real-time chest-wall-motion tracking by a single optical fibre grating: a prospective method for ventilator triggering. Physiological Measurement, 2018, 39, 045009.	1.2	2
225	General Expression of Poly(Methyl Methacrylate) Optical Fiber Bragg Grating Sensing Response. IEEE Photonics Technology Letters, 2019, 31, 234-237.	1.3	2
226	Ultra-efficient in-core acoustic waves in suspended core fiber for high frequency fiber-optic ultrasonic devices. Applied Physics Express, 2021, 14, 087003.	1.1	2
227	Low-dimensional nano-patterned surface fabricated by direct-write UV-chemically induced geometric inscription technique. Optics Letters, 2019, 44, 195.	1.7	2
228	Soil water content measurement using polymer optical fibre Bragg gratings. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 2021, 174, 11-21.	1.1	2
229	A novel technique for polarisation mode dispersion measurements in optical fibres. Optics Communications, 1989, 69, 230-234.	1.0	1
230	<title>White-light displacement sensor incorporating signal analysis of channeled spectra</title>. , 1994, , .		1
231	<title>Brillouin loss-based distributed temperature sensor using a single source</title>. , 1996, , .		1
232	<title>Single ended Brillouin interaction-based distributed temperature sensor using a Faraday rotating mirror</title>. , 1996, 2838, 124.		1
233	Adjustable depth resolution OCT imaging. , 1998, 3491, 1158.		1
234	<title>Recent developments in fibre optic sensors for point and distributed sensing in large structures</title>. , 1998, 3483, 138.		1

#	ARTICLE	IF	CITATIONS
235	<title>Medical temperature profile monitoring using multiplexed fiber Bragg gratings</title>. , 1999, , .		1
236	Sensing applications of long-period gratings in various fibre types. , 2004, 5502, 104.		1
237	A long period grating directional bend sensor incorporating index modification of the cladding. , 2005, , .		1
238	Non-linear temperature response of Bragg gratings in doped and un-doped holey polymer optical fibre. , 2007, , .		1
239	Recent progress in polymer optical fibre gratings. , 2008, , .		1
240	Gas sensing using a surface plasmon resonance fibre device. Proceedings of SPIE, 2009, , .	0.8	1
241	Polymer photonic sensing skin. Proceedings of SPIE, 2010, , .	0.8	1
242	Remotely tuneable optical filter based on polymer fibre Bragg grating. Proceedings of SPIE, 2011, , .	0.8	1
243	Embedded multiplexed polymer optical fiber sensor for esophageal manometry. , 2011, , .		1
244	Nonlinear response in polymer optical fibre Bragg grating based sensors. Proceedings of SPIE, 2012, , .	0.8	1
245	Strain response of POF sensors. , 2012, , .		1
246	Acousto-optic modulation in a microstructured plastic optical fibre Bragg grating. , 2012, , .		1
247	Inscription of narrow bandwidth Bragg gratings in polymer optical fibers. , 2013, , .		1
248	Cardiac induced localised motion of the human torso detected by a long period grating fibre optic sensing scheme. Proceedings of SPIE, 2014, , .	0.8	1
249	Increase of the photosensitivity of undoped poly(methylmethacrylate) under UV radiation at 325 nm. , 2014, , .		1
250	High performance liquid level monitoring system based on polymer fiber Bragg gratings embedded in silicone rubber diaphragms. , 2015, , .		1
251	Fuel level sensor based on polymer optical fiber Bragg gratings for aircraft applications. , 2016, , .		1
252	Effects in ultrafast laser micromachining PMMA-based optical fibre grating. Proceedings of SPIE, 2016, , .	0.8	1

#	ARTICLE	IF	CITATIONS
253	Performance analysis of polymer optical fibre based Fabry-Perot sensor formed by two uniform Bragg gratings. Proceedings of SPIE, 2016, , .	0.8	1
254	Sensitivity enhancement using annealed polymer optical-fibre-based sensors for pressure sensing applications. Proceedings of SPIE, 2016, , .	0.8	1
255	Chirped polymer optical fiber Bragg grating sensors. Proceedings of SPIE, 2017, , .	0.8	1
256	Photonic crystal fiber Bragg grating based sensors “ opportunities for applications in healthcare. , 2011, , .		1
257	The spectral sensitivity of long-period gratings fabricated in elliptical core D-shaped optical fiber. , 2004, , .		1
258	<title>Dynamic studies on a distributed temperature sensor with a 22-km sensing length</title>. , 1993, , .		0
259	<title>White-light interferometric spectral analysis for displacement sensing</title>. , 1994, 2070, 92.		0
260	Rayleigh backscattering in optical fibers: a noise limitation and a sensing mechanism. , 1994, 2360, 498.		0
261	<title>Optical fiber accelerometers for high-temperature applications</title>. , 1994, , .		0
262	Simultaneous interrogation of interferometric and Bragg grating sensors. , 1995, 2507, 218.		0
263	<title>Short in-fibre Bragg gratings for measuring MHz ultrasonic fields</title>. , 1998, , .		0
264	Ultrasonic probe using short in-fiber Bragg gratings. , 1998, 3491, 934.		0
265	Applications of a Brillouin laser in Brillouin-based distributed sensing. , 1998, 3491, 916.		0
266	<title>Brillouin-based distributed fibre sensor incorporating a Brillouin laser</title>. , 1998, , .		0
267	<title>Coherent detection of spontaneous Brillouin scattering for distributed temperature sensing using a Brillouin laser</title>. , 1998, , .		0
268	<title>Versatile OCT system for transversal and longitudinal imaging</title>. , 1999, 3541, 90.		0
269	<title>Criteria in the simultaneous presentation of the images provided by a stand-alone OCT/SLO system</title>. , 1999, 3564, 163.		0
270	Stimulated Brillouin scattering using short probe pulses: an unsuspected transient response with advantageous consequences in distributed sensing at high spatial resolution. , 2000, , .		0

#	ARTICLE	IF	CITATIONS
271	Brillouin and Rayleigh Signal Discrimination by Means of a π -Phase-Shifted Bragg Grating for Distributed Temperature Sensing. Measurement and Control, 2001, 34, 165-166.	0.9	0
272	Gratings in novel fibre geometry for applications in shape sensing. , 2004, , .		0
273	High birefringence fibre interrogating interferometer for optical sensing applications. , 2005, , .		0
274	Long-period gratings fabricated in photonic crystal fibre. , 2005, 5855, 334.		0
275	Reliability of fibre Bragg gratings in polymer optical fibre. , 2006, , .		0
276	Enhanced spectral sensitivity of fibre long-period gratings to refractive index of aqueous solutions utilising copper patterned coatings. , 2006, 6083, 153.		0
277	Polarimetric sensitivity to hydrostatic pressure and temperature in birefringent dual-core microstructured polymer fiber. , 2010, , .		0
278	Fibre optic sensors for high speed hypervelocity impact studies and low velocity drop tests. Proceedings of SPIE, 2011, , .	0.8	0
279	Controlling the properties of microstructured plastic optical fiber Bragg gratings using acousto-optic excitation. , 2012, , .		0
280	Generation and performance of localised surface plasmons utilising nano-scale structured multi-layered thin films deposited upon D-shaped optical fiber. Proceedings of SPIE, 2013, , .	0.8	0
281	WDM sensor network approach: Bridging the gap towards POF-based photonic sensing. , 2014, , .		0
282	An ultra-sensitive localised surface plasmon resonance fibre device for environmental sensing based upon a structured bi-metal coating. Proceedings of SPIE, 2014, , .	0.8	0
283	Optimisation of polymer optical fibre based interferometric sensors. , 2015, , .		0
284	Improved response time of laser etched polymer optical fiber Bragg grating humidity sensor. , 2015, , .		0
285	Impact of thermal pre-treatment on preforms for fast Bragg gratings inscription using undoped PMMA POFs. , 2017, , .		0
286	Gratings in Polymer Fibres. , 2014, , .		0
287	En-face OCT imaging of the retina using path modulation introduced by the transversal scanning mirror. , 1998, , .		0
288	Utilising thermal annealing for multiplexing and sensitivity enhancement of polymer optical fibre sensors. , 2019, , .		0