

# David J Webb

## List of Publications by Year in descending order

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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	Performances of PMMA-Based Optical Fiber Bragg Grating Sensor in Extended Temperature Range. <i>Photonics</i> , 2021, 8, 180.	0.9	3
2	Ultra-efficient in-core acoustic waves in suspended core fiber for high frequency fiber-optic ultrasonic devices. <i>Applied Physics Express</i> , 2021, 14, 087003.	1.1	2
3	Highly Efficient Side-Coupled Acousto-Optic Modulation of a Suspended Core Fiber Bragg Grating. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 1379-1382.	1.3	3
4	Soil water content measurement using polymer optical fibre Bragg gratings. <i>Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction</i> , 2021, 174, 11-21.	1.1	2
5	Detection of nitrous oxide using infrared optical plasmonics coupled with carbon nanotubes. <i>Nanoscale Advances</i> , 2020, 2, 4615-4626.	2.2	4
6	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
7	Water content detection in aviation fuel by using PMMA based optical fiber grating. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 774-779.	4.0	19
8	General Expression of Poly(Methyl Methacrylate) Optical Fiber Bragg Grating Sensing Response. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 234-237.	1.3	2
9	Low-dimensional nano-patterned surface fabricated by direct-write UV-chemically induced geometric inscription technique. <i>Optics Letters</i> , 2019, 44, 195.	1.7	2
10	Utilising thermal annealing for multiplexing and sensitivity enhancement of polymer optical fibre sensors. , 2019, , .		0
11	Real-time chest-wall-motion tracking by a single optical fibre grating: a prospective method for ventilator triggering. <i>Physiological Measurement</i> , 2018, 39, 045009.	1.2	2
12	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. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 843-853.	4.0	9
13	Novel thermal annealing methodology for permanent tuning polymer optical fiber Bragg gratings to longer wavelengths. <i>Optics Express</i> , 2018, 26, 1411.	1.7	11
14	Chirped Bragg Gratings in PMMA Step-Index Polymer Optical Fiber. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 500-503.	1.3	55
15	Stress Sensitivity Analysis of Optical Fiber Bragg Grating-Based Fabry-Pérot Interferometric Sensors. <i>Journal of Lightwave Technology</i> , 2017, 35, 2654-2659.	2.7	29
16	Impact of thermal pre-treatment on preforms for fast Bragg gratings inscription using undoped PMMA POFs. , 2017, , .		0
17	Chirped polymer optical fiber Bragg grating sensors. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
18	Real-time kinetic binding studies at attomolar concentrations in solution phase using a single-stage opto-biosensing platform based upon infrared surface plasmons. <i>Optics Express</i> , 2017, 25, 39.	1.7	13

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19	Polymer optical fiber Bragg grating inscription with a single UV laser pulse. Optics Express, 2017, 25, 9028.	1.7	68
20	Fast Bragg Grating Inscription in PMMA Polymer Optical Fibres: Impact of Thermal Pre-Treatment of Preforms. Sensors, 2017, 17, 891.	2.1	62
21	Embedding silica and polymer fibre Bragg gratings (FBG) in plastic 3D-printed sensing patches. Proceedings of SPIE, 2016, , .	0.8	12
22	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
23	Fuel level sensor based on polymer optical fiber Bragg gratings for aircraft applications. , 2016, , .		1
24	PMMA Based Optical Fiber Bragg Grating for Measuring Moisture in Transformer Oil. IEEE Photonics Technology Letters, 2016, 28, 2427-2430.	1.3	41
25	Microstructured polymer optical fibre sensors for opto-acoustic endoscopy. , 2016, , .		7
26	Effects in ultrafast laser micromachining PMMA-based optical fibre grating. Proceedings of SPIE, 2016, , .	0.8	1
27	Passive and Portable Polymer Optical Fiber Cleaver. IEEE Photonics Technology Letters, 2016, 28, 2834-2837.	1.3	14
28	Aviation Fuel Gauging Sensor Utilizing Multiple Diaphragm Sensors Incorporating Polymer Optical Fiber Bragg Gratings. IEEE Sensors Journal, 2016, 16, 6122-6129.	2.4	61
29	Annealing effects on strain and stress sensitivity of polymer optical fibre based sensors. , 2016, , .		8
30	Performance analysis of polymer optical fibre based Fabry-Perot sensor formed by two uniform Bragg gratings. Proceedings of SPIE, 2016, , .	0.8	1
31	A compact polymer optical fibre ultrasound detector. , 2016, , .		3
32	Molecular alignment relaxation in polymer optical fibers for sensing applications. Optical Fiber Technology, 2016, 28, 11-17.	1.4	36
33	Sensitivity enhancement using annealed polymer optical-fibre-based sensors for pressure sensing applications. Proceedings of SPIE, 2016, , .	0.8	1
34	Thermal effects on the photoelastic coefficient of polymer optical fibers. Optics Letters, 2016, 41, 2517.	1.7	14
35	Enhancing the humidity response time of polymer optical fiber Bragg grating by using laser micromachining. Optics Express, 2015, 23, 25942.	1.7	16
36	Fibre Bragg grating sensors in polymer optical fibres. Measurement Science and Technology, 2015, 26, 092004.	1.4	128

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37	Wavelength Drift of PMMA-Based Optical Fiber Bragg Grating Induced by Optical Absorption. IEEE Photonics Technology Letters, 2015, 27, 336-339.	1.3	7
38	Optimisation of polymer optical fibre based interferometric sensors. , 2015, , .		0
39	Fiber optic liquid level monitoring system using microstructured polymer fiber Bragg grating array sensors: performance analysis. , 2015, , .		2
40	High performance liquid level monitoring system based on polymer fiber Bragg gratings embedded in silicone rubber diaphragms. , 2015, , .		1
41	Rib-cage-movement measurements as a potential new trigger signal in non-invasive mechanical ventilation. , 2015, 2015, 4511-4.		3
42	Graphene-Based D-Shaped Polymer FBG for Highly Sensitive Erythrocyte Detection. IEEE Photonics Technology Letters, 2015, 27, 2399-2402.	1.3	33
43	Highly sensitive liquid level monitoring system utilizing polymer fiber Bragg gratings. Optics Express, 2015, 23, 6058.	1.7	155
44	Improved response time of laser etched polymer optical fiber Bragg grating humidity sensor. , 2015, , .		0
45	Time-dependent variation of fiber Bragg grating reflectivity in PMMA-based polymer optical fibers. Optics Letters, 2015, 40, 1476.	1.7	13
46	Polarization effects in polymer FBGs: study and use for transverse force sensing. Optics Express, 2015, 23, 4581.	1.7	71
47	Enhancing the sensitivity of poly(methyl methacrylate) based optical fiber Bragg grating temperature sensors. Optics Letters, 2015, 40, 4046.	1.7	27
48	A Self-Referenced Optical Intensity Sensor Network Using POFBGs for Biomedical Applications. Sensors, 2014, 14, 24029-24045.	2.1	15
49	WDM sensor network approach: Bridging the gap towards POF-based photonic sensing. , 2014, , .		0
50	Polymer optical fiber grating as water activity sensor. , 2014, , .		4
51	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
52	Investigations on birefringence effects in polymer optical fiber Bragg gratings. , 2014, , .		2
53	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
54	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

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55	Cardiac-induced localized thoracic motion detected by a fiber optic sensing scheme. Journal of Biomedical Optics, 2014, 19, 117006.	1.4	13
56	Non-invasive respiratory monitoring using long-period fiber grating sensors. Biomedical Optics Express, 2014, 5, 1136.	1.5	31
57	Factors influencing the temperature sensitivity of PMMA based optical fiber Bragg gratings. , 2014, , .		7
58	Measuring water activity of aviation fuel using a polymer optical fiber Bragg grating. Proceedings of SPIE, 2014, , .	0.8	2
59	Effects of annealing, pre-tension and mounting on the hysteresis of polymer strain sensors. Measurement Science and Technology, 2014, 25, 015102.	1.4	14
60	Microstructured waveguides in z-cut LiNbO <sub>3</sub> by high-repetition rate direct femtosecond laser inscription. Optical Materials Express, 2014, 4, 1708.	1.6	13
61	Photosensitivity mechanism of undoped poly(methyl methacrylate) under UV radiation at 325 nm and its spatial resolution limit. Optics Letters, 2014, 39, 3421.	1.7	35
62	Long period grating in multicore optical fiber: an ultra-sensitive vector bending sensor for low curvatures. Optics Letters, 2014, 39, 3508.	1.7	96
63	Humidity responsivity of poly(methyl methacrylate)-based optical fiber Bragg grating sensors. Optics Letters, 2014, 39, 3026.	1.7	99
64	Increase of the photosensitivity of undoped poly(methylmethacrylate) under UV radiation at 325 nm. , 2014, , .		1
65	Gratings in Polymer Fibres. , 2014, , .		0
66	Inscription of narrow bandwidth Bragg gratings in polymer optical fibers. Journal of Optics (United Kingdom) 10, 10, 10.	1.0	6
67	Connectorisation of fibre Bragg grating sensors recorded in microstructured polymer optical fibre. Proceedings of SPIE, 2013, , .	0.8	11
68	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
69	Acousto-Optic Effect in Microstructured Polymer Fiber Bragg Gratings: Simulation and Experimental Overview. Journal of Lightwave Technology, 2013, 31, 1551-1558.	2.7	74
70	Femtosecond laser-induced microstructures on diamond for microfluidic sensing device applications. Applied Physics Letters, 2013, 102, .	1.5	35
71	Narrow bandwidth Bragg gratings imprinted in polymer optical fibers for different spectral windows. Optics Communications, 2013, 307, 57-61.	1.0	62
72	Influence of mounting on the hysteresis of polymer fiber Bragg grating strain sensors. Optics Letters, 2013, 38, 1376.	1.7	34

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73	Highly photosensitive polymethyl methacrylate microstructured polymer optical fiber with doped core. Optics Letters, 2013, 38, 3769.	1.7	70
74	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
75	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
76	Fibre-grating sensors for the measurement of physiological pulsations. Physica Scripta, 2013, T157, 014022.	1.2	7
77	A new method for respiratory-volume monitoring based on long-period fibre gratings. , 2013, 2013, 2660-3.		4
78	Inscription of narrow bandwidth Bragg gratings in polymer optical fibers. , 2013, , .		1
79	A compact, portable and low cost generic interrogation strain sensor system using an embedded VCSEL, detector and fibre Bragg grating. , 2012, , .		4
80	Ultra Small Integrated Optical Fiber Sensing System. Sensors, 2012, 12, 12052-12069.	2.1	31
81	Demountable connection for polymer optical fiber grating sensors. Optical Engineering, 2012, 51, 080503-1.	0.5	26
82	An investigation into the wavelength stability of polymer optical fibre Bragg gratings. Proceedings of SPIE, 2012, , .	0.8	2
83	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
84	Polymer optical fiber Bragg grating acting as an intrinsic biochemical concentration sensor. Optics Letters, 2012, 37, 1370.	1.7	48
85	Arbitrary real-time three-dimensional corporal object sensing and reconstruction scheme. Optics Letters, 2012, 37, 3549.	1.7	9
86	Controlling the properties of microstructured plastic optical fiber Bragg gratings using acousto-optic excitation. , 2012, , .		0
87	Nonlinear response in polymer optical fibre Bragg grating based sensors. Proceedings of SPIE, 2012, , .	0.8	1
88	Hydrostatic pressure sensing using a polymer optical fibre Bragg gratings. Proceedings of SPIE, 2012, , .	0.8	19
89	Strain response of POF sensors. , 2012, , .		1
90	An intrinsic biochemical concentration sensor using a polymer optical fibre Bragg grating. Proceedings of SPIE, 2012, , .	0.8	2

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91	Acousto-optic modulation in a microstructured plastic optical fibre Bragg grating. , 2012, , .		1
92	Investigation Into Time Response of Polymer Fiber Bragg Grating Based Humidity Sensors. Journal of Lightwave Technology, 2012, 30, 1090-1096.	2.7	156
93	Superstructure Fiber Gratings Via Single Step Femtosecond Laser Inscription. Journal of Lightwave Technology, 2012, 30, 1229-1236.	2.7	11
94	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
95	Polymer optical fibre Bragg gratings. , 2012, , .		4
96	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
97	Characterizing femtosecond laser inscribed Bragg grating spectra. Optics Express, 2011, 19, 342.	1.7	26
98	Humidity insensitive TOPAS polymer fiber Bragg grating sensor. Optics Express, 2011, 19, 19731.	1.7	236
99	Fibre optic sensors for high speed hypervelocity impact studies and low velocity drop tests. Proceedings of SPIE, 2011, , .	0.8	0
100	Remotely tuneable optical filter based on polymer fibre Bragg grating. Proceedings of SPIE, 2011, , .	0.8	1
101	Improved time response for polymer fibre Bragg grating based humidity sensors. , 2011, , .		7
102	Polymer PCF Bragg grating sensors based on poly(methyl methacrylate) and TOPAS cyclic olefin copolymer. , 2011, , .		6
103	Research Activities Arising From the University of Kent. Photonic Sensors, 2011, 1, 140-151.	2.5	5
104	Embedded multiplexed polymer optical fiber sensor for esophageal manometry. , 2011, , .		1
105	Photonic crystal fiber Bragg grating based sensors: opportunities for applications in healthcare. Proceedings of SPIE, 2011, , .	0.8	5
106	Utilisation of thermal annealing to record multiplexed FBG sensors in multimode microstructured polymer optical fibre. , 2011, , .		9
107	Optical fibre Bragg grating recorded in TOPAS cyclic olefin copolymer. Electronics Letters, 2011, 47, 271.	0.5	92
108	Photonic crystal fiber Bragg grating based sensors " opportunities for applications in healthcare. , 2011, , .		1

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109	Polarimetric sensitivity to hydrostatic pressure and temperature in birefringent dual-core microstructured polymer fiber. , 2010, , .		0
110	Polymer photonic sensing skin. Proceedings of SPIE, 2010, , .	0.8	1
111	Multiplexed FBG sensor recorded in multimode microstructured polymer optical fibre. Proceedings of SPIE, 2010, , .	0.8	23
112	Optical fibre temperature and humidity sensor. Electronics Letters, 2010, 46, 643.	0.5	105
113	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
114	Aptamer-based surface plasmon fibre sensor for thrombin detection. , 2010, , .		7
115	Photonic skin for pressure and strain sensing. Proceedings of SPIE, 2010, , .	0.8	7
116	Polymer photonic crystal fibre for sensor applications. , 2010, , .		6
117	Low refractive index gas sensing using a surface plasmon resonance fibre device. Measurement Science and Technology, 2010, 21, 094029.	1.4	19
118	Water Diffusion Into UV Inscripted Long Period Grating in Microstructured Polymer Fiber. IEEE Sensors Journal, 2010, 10, 1169-1173.	2.4	26
119	827â€¦nm Bragg grating sensor in multimode microstructured polymer optical fibre. Electronics Letters, 2010, 46, 1217.	0.5	47
120	Highly Sensitive Bend Sensor Based on Bragg Grating in Eccentric Core Polymer Fiber. IEEE Photonics Technology Letters, 2010, 22, 850-852.	1.3	126
121	Measurements of polarimetric sensitivity to hydrostatic pressure, strain and temperature in birefringent dual-core microstructured polymer fiber. Optics Express, 2010, 18, 12076.	1.7	39
122	Measurements of stress-optic coefficient in polymer optical fibers. Optics Letters, 2010, 35, 2013.	1.7	36
123	Bragg grating in a polymer optical fibre for strain, bend and temperature sensing. Measurement Science and Technology, 2010, 21, 094005.	1.4	57
124	Water detection in jet fuel using a polymer optical fibre Bragg grating. Proceedings of SPIE, 2009, , .	0.8	34
125	Optical bend sensor for vector curvature measurement based on Bragg grating in eccentric core polymer optical fibre. , 2009, , .		12
126	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



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127	Multilayered coated infra-red surface plasmon resonance fibre sensors for aqueous chemical sensing. <i>Optical Fiber Technology</i> , 2009, 15, 477-482.	1.4	11
128	Exploitation of multilayer coatings for infrared surface plasmon resonance fiber sensors. <i>Applied Optics</i> , 2009, 48, 276.	2.1	30
129	Optical Fiber Cavity Ring Down Measurement of Refractive Index With a Microchannel Drilled by Femtosecond Laser. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1653-1655.	1.3	28
130	Gas sensing using a surface plasmon resonance fibre device. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
131	Applications of polymer optical fibre grating sensors to condition monitoring of textiles. , 2009, , .		10
132	Comparison between femtosecond laser and fusion-arc inscribed long period gratings in photonic crystal fibre. <i>Proceedings of SPIE</i> , 2009, , .	0.8	4
133	Applications of polymer optical fibre grating sensors to condition monitoring of textiles. <i>Journal of Physics: Conference Series</i> , 2009, 178, 012020.	0.3	4
134	Photonic skins for optical sensing: highlights of the PHOSFOS Project. , 2009, , .		2
135	Long period gratings written into a photonic crystal fibre by a femtosecond laser as directional bend sensors. <i>Optics Communications</i> , 2008, 281, 5092-5096.	1.0	65
136	Characterization of infrared surface plasmon resonances generated from a fiber-optical sensor utilizing tilted Bragg gratings. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 481.	0.9	33
137	The spectral characteristics of femtosecond laser inscribed long period grating bend sensors written into a photonic crystal fibre. <i>Proceedings of SPIE</i> , 2008, , .	0.8	2
138	A surface plasmon resonance fibre device for environmental sensing. , 2008, , .		2
139	Recent progress in polymer optical fibre gratings. , 2008, , .		1
140	Annealing and spectral characteristics of femtosecond laser inscribed long period gratings written into a photonic crystal fibre. , 2008, , .		3
141	Temperature sensitivity of Bragg gratings in PMMA and TOPAS microstructured polymer optical fibres. <i>Proceedings of SPIE</i> , 2008, , .	0.8	13
142	Recent developments of Bragg gratings in PMMA and TOPAS polymer optical fibers. <i>Proceedings of SPIE</i> , 2008, , .	0.8	6
143	Fibre Bragg grating sensors for distributive tactile sensing. <i>Measurement Science and Technology</i> , 2007, 18, 138-146.	1.4	27
144	Fibre Bragg grating sensor interrogation using an acousto-optic tunable filter and low-coherence interferometry. <i>Measurement Science and Technology</i> , 2007, 18, 2967-2971.	1.4	5

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145	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
146	Non-linear temperature response of Bragg gratings in doped and un-doped holey polymer optical fibre. , 2007, , .		1
147	Electrically tunable Bragg gratings in single-mode polymer optical fiber. Optics Letters, 2007, 32, 214.	1.7	31
148	Thermal response of Bragg gratings in PMMA microstructured optical fibers. Optics Express, 2007, 15, 8844.	1.7	119
149	Generation of infrared surface plasmon resonances with high refractive index sensitivity utilizing tilted fiber Bragg gratings. Applied Optics, 2007, 46, 5456.	2.1	40
150	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
151	Application of long-period-grating sensors to respiratory plethysmography. Journal of Biomedical Optics, 2007, 12, 064003.	1.4	33
152	Nondestructive index profiling of long period gratings in photonic crystal fibres. Optical and Quantum Electronics, 2007, 38, 913-920.	1.5	4
153	Reliability of fibre Bragg gratings in polymer optical fibre. , 2006, , .		0
154	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
155	Micro-fabrication of advanced photonic devices by means of direct point-by-point femtosecond inscription in silica. , 2006, , .		4
156	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
157	Distributive tactile sensing using fibre Bragg grating sensors. , 2006, 6191, 249.		7
158	Implications of high power losses in IR femtosecond laser inscribed fiber Bragg gratings. , 2006, , .		2
159	Enhanced spectral sensitivity of fibre long-period gratings to refractive index of aqueous solutions utilising copper patterned coatings. , 2006, 6083, 153.		0
160	Measured sensitivity of arc-induced long-period grating sensors in photonic crystal fibre. Optics Communications, 2006, 260, 184-191.	1.0	84
161	Multiple Period Resonances in Long Period Gratings in Photonic Crystal Fibres. Optical and Quantum Electronics, 2006, 38, 209-216.	1.5	4
162	Grating based devices in polymer optical fibre. , 2006, , .		14

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163	Surface Plasmon Resonance Generation Utilising Gratings for Biochemical Sensing. , 2006, , .		4
164	The bending and temperature characteristics of long period gratings written in elliptical core step-index fibre. , 2005, 5855, 711.		2
165	A long period grating directional bend sensor incorporating index modification of the cladding. , 2005, , .		1
166	High birefringence fibre interrogating interferometer for optical sensing applications. , 2005, , .		0
167	Tapered fibre LPG device as a sensing element for refractive index. , 2005, , .		5
168	Long-period gratings fabricated in photonic crystal fibre. , 2005, 5855, 334.		0
169	High birefringence fibre interrogating interferometer for optical sensing applications. Electronics Letters, 2005, 41, 235.	0.5	4
170	Respiratory monitoring using fibre long period grating sensors. , 2005, , .		3
171	Interrogation of fibre Bragg grating sensors using an arrayed waveguide grating. Measurement Science and Technology, 2005, 16, 691-698.	1.4	14
172	Strain and temperature sensitivity of a single-mode polymer optical fiber. Optics Letters, 2005, 30, 3129.	1.7	120
173	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
174	Interferometric sensor interrogation using an arrayed waveguide grating. IEEE Photonics Technology Letters, 2005, 17, 172-174.	1.3	2
175	<title>Application of long-period grating sensors to respiratory function monitoring</title>. , 2004, 5588, 148.		8
176	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
177	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
178	Temperature insensitive long-period grating sensors in photonic crystal fiber. , 2004, 5579, 66.		3
179	Interferometric and fibre Bragg grating sensor interrogation using an arrayed waveguide grating. , 2004, , .		3
180	Gratings in novel fibre geometry for applications in shape sensing. , 2004, , .		0

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181	Sensing applications of long-period gratings in various fibre types. , 2004, 5502, 104.		1
182	The spectral sensitivity of long-period gratings fabricated in elliptical core D-shaped optical fiber. , 2004, , .		1
183	A comparison of the sensing characteristics of long period gratings written in three different types of fiber. Optical Fiber Technology, 2003, 9, 210-223.	1.4	53
184	Sensing characteristics of a novel two-section long-period grating. Applied Optics, 2003, 42, 3766.	2.1	11
185	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
186	Embedded progressive-three-layered fiber long-period gratings for respiratory monitoring. Journal of Biomedical Optics, 2003, 8, 552.	1.4	36
187	Extended range interrogation of wavelength division multiplexed fibre Bragg grating sensors using arrayed waveguide grating. Electronics Letters, 2003, 39, 1714.	0.5	22
188	Optical-Fiber Sensors: An Overview. MRS Bulletin, 2002, 27, 365-369.	1.7	11
189	Optical-Fiber Sensors. MRS Bulletin, 2002, 27, 359-364.	1.7	22
190	A high sensitivity refractometer based upon a long period grating Mach-Zehnder interferometer. Review of Scientific Instruments, 2002, 73, 1702-1705.	0.6	176
191	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
192	Simultaneous interrogation of fiber Bragg grating sensors using an acoustooptic tunable filter. IEEE Photonics Technology Letters, 2001, 13, 1215-1217.	1.3	12
193	Brillouin and Rayleigh Signal Discrimination by Means of a $\pi$ -Phase-Shifted Bragg Grating for Distributed Temperature Sensing. Measurement and Control, 2001, 34, 165-166.	0.9	0
194	Stimulated Brillouin scattering using short probe pulses: an unsuspected transient response with advantageous consequences in distributed sensing at high spatial resolution. , 2000, , .		0
195	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
196	First in-vivo trials of a fiber Bragg grating based temperature profiling system. Journal of Biomedical Optics, 2000, 5, 45.	1.4	68
197	20-km distributed temperature sensor based on spontaneous Brillouin scattering. IEEE Photonics Technology Letters, 2000, 12, 1367-1369.	1.3	21
198	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

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199	<title>Versatile OCT system for transversal and longitudinal imaging</title>. , 1999, 3541, 90.		0
200	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
201	Combined ultrasound and temperature sensor using a fibre Bragg grating. Optics Communications, 1999, 171, 225-231.	1.0	12
202	<title>Medical ultrasound detection using fiber Bragg gratings</title>. , 1999, , .		5
203	<title>Medical temperature profile monitoring using multiplexed fiber Bragg gratings</title>. , 1999, , .		1
204	<title>Criteria in the simultaneous presentation of the images provided by a stand-alone OCT/SLO system</title>. , 1999, 3564, 163.		0
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