

Stephen W James

List of Publications by Year in descending order

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210
papers

5,712
citations

81743

39
h-index

85405

71
g-index

211
all docs

211
docs citations

211
times ranked

3631
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical fibre long-period grating sensors: characteristics and application. Measurement Science and Technology, 2003, 14, R49-R61.	1.4	1,106
2	Simultaneous independent temperature and strain measurement using in-fibre Bragg grating sensors. Electronics Letters, 1996, 32, 1133.	0.5	301
3	Fiber-optic liquid-level sensor using a long-period grating. Optics Letters, 2001, 26, 1224.	1.7	252
4	Optical fiber long-period gratings with Langmuir-Blodgett thin-film overlays. Optics Letters, 2002, 27, 686.	1.7	251
5	A single-headed fibre optic laser Doppler anemometer probe for the measurement of flow angles. Measurement Science and Technology, 2004, 15, 1-8.	1.4	165
6	Biomedical application of optical fibre sensors. Journal of Optics (United Kingdom), 2018, 20, 073003.	1.0	124
7	Tapered Optical Fibre Sensors: Current Trends and Future Perspectives. Sensors, 2019, 19, 2294.	2.1	121
8	Simultaneous temperature and bend sensing with long-period fiber gratings. Optics Letters, 2000, 25, 1007.	1.7	117
9	Temperature and strain discrimination using a single tilted fibre Bragg grating. Optics Communications, 2007, 275, 344-347.	1.0	115
10	Fibre Bragg gratings fabricated using a wavelength tuneable laser source and a phase mask based interferometer. Measurement Science and Technology, 1996, 7, 445-448.	1.4	110
11	Characterization of the response of fibre Bragg gratings fabricated in stress and geometrically induced high birefringence fibres to temperature and transverse load. Smart Materials and Structures, 2004, 13, 888-895.	1.8	90
12	Modification of the refractive index response of long period gratings using thin film overlays. Sensors and Actuators B: Chemical, 2005, 107, 738-741.	4.0	80
13	Optical fibre long period grating based selective vapour sensing of volatile organic compounds. Sensors and Actuators B: Chemical, 2010, 143, 629-634.	4.0	77
14	Optical fibre long period grating with a nanoporous coating formed from silica nanoparticles for ammonia sensing in water. Materials Chemistry and Physics, 2012, 133, 784-792.	2.0	77
15	Fibre optic sensors with nano-structured coatings. Journal of Optics, 2006, 8, S430-S444.	1.5	76
16	Response of fiber-optic long-period gratings operating near the phase-matching turning point to the deposition of nanostructured coatings. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 897.	0.9	75
17	Multi-parameter measurements using optical fibre long period gratings for indoor air quality monitoring. Sensors and Actuators B: Chemical, 2017, 244, 217-225.	4.0	74
18	Photorefractive planar waveguides in BaTiO ₃ fabricated by ion-beam implantation. Optics Letters, 1992, 17, 1509.	1.7	67

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19	Enhanced sensitivity fibre optic long period grating temperature sensor. <i>Measurement Science and Technology</i> , 2002, 13, 792-795.	1.4	66
20	Optical fibre long period grating gas sensor modified with metal organic framework thin films. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 891-899.	4.0	64
21	An ammonia sensor based on Lossy Mode Resonances on a tapered optical fibre coated with porphyrin-incorporated titanium dioxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 645-652.	4.0	63
22	Selective vancomycin detection using optical fibre long period gratings functionalised with molecularly imprinted polymer nanoparticles. <i>Analyst</i> , The, 2014, 139, 2229-2236.	1.7	61
23	Strain response of fibre Bragg grating sensors at cryogenic temperatures. <i>Measurement Science and Technology</i> , 2002, 13, 1535-1539.	1.4	59
24	A long period grating optical fiber sensor with nano-assembled porphyrin layers for detecting ammonia gas. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 573-580.	4.0	58
25	Fiber optic long period grating sensors with a nanoassembled mesoporous film of SiO ₂ nanoparticles. <i>Optics Express</i> , 2010, 18, 13227.	1.7	55
26	Fabrication and optimisation of a fused filament 3D-printed microfluidic platform. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 035018.	1.5	55
27	Relating the state of cure to the real-time internal strain development in a curing composite using in-fibre Bragg gratings and dielectric sensors. <i>Measurement Science and Technology</i> , 1998, 9, 1153-1158.	1.4	54
28	Cryogenic temperature response of fibre optic long period gratings. <i>Measurement Science and Technology</i> , 2003, 14, 1409-1411.	1.4	54
29	pH sensor using Langmuir-Blodgett overlays on polished optical fibers. <i>Optics Letters</i> , 1997, 22, 567.	1.7	52
30	Highly sensitive optical fibre long period grating biosensor anchored with silica core gold shell nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016, 75, 222-231.	5.3	50
31	A polarization-maintaining fibre Bragg grating interrogation system for multi-axis strain sensing. <i>Measurement Science and Technology</i> , 2002, 13, 1446-1449.	1.4	46
32	Fabrication of fiber optic long period gratings operating at the phase matching turning point using an ultraviolet laser. <i>Applied Optics</i> , 2014, 53, 4669.	0.9	46
33	Multiplexing of Fiber-Optic Long-Period Grating-Based Interferometric Sensors. <i>Journal of Lightwave Technology</i> , 2007, 25, 825-829.	2.7	44
34	Refractive index sensitivity of fibre-optic long period gratings coated with SiO ₂ nanoparticle mesoporous thin films. <i>Measurement Science and Technology</i> , 2011, 22, 075208.	1.4	44
35	Strain development in curing epoxy resin and glass fibre/epoxy composites monitored by fibre Bragg grating sensors in birefringent optical fibre. <i>Smart Materials and Structures</i> , 2005, 14, 354-362.	1.8	42
36	A long period grating-based chemical sensor insensitive to the influence of interfering parameters. <i>Optics Express</i> , 2014, 22, 8012.	1.7	42

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37	Optical fiber long period grating sensor with a polyelectrolyte alternate thin film for gas sensing of amine odors. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 117-124.	4.0	41
38	Cascaded long-period gratings with nanostructured coatings. <i>Optics Letters</i> , 2005, 30, 2197.	1.7	40
39	Long period grating based toluene sensor for use with water contamination. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 621-625.	4.0	40
40	Optical fibre laser velocimetry: a review. <i>Measurement Science and Technology</i> , 2012, 23, 032001.	1.4	39
41	Optical fibre grating refractometers for resin cure monitoring. <i>Journal of Optics</i> , 2007, 9, S60-S65.	1.5	37
42	Railway track component condition monitoring using optical fibre Bragg grating sensors. <i>Measurement Science and Technology</i> , 2016, 27, 055201.	1.4	37
43	Development and application of optical fibre strain and pressure sensors for in-flight measurements. <i>Measurement Science and Technology</i> , 2016, 27, 104001.	1.4	37
44	Time-division-multiplexed interrogation of fibre Bragg grating sensors using laser diodes. <i>Measurement Science and Technology</i> , 2001, 12, 181-187.	1.4	36
45	Shape and slope measurement by source displacement in shearography. <i>Optics and Lasers in Engineering</i> , 2004, 41, 621-634.	2.0	36
46	Thermal dependence of the strain response of optical fibre Bragg gratings. <i>Measurement Science and Technology</i> , 2004, 15, 1607-1613.	1.4	34
47	Surface strain measurement: a comparison of speckle shearing interferometry and optical fibre Bragg gratings with resistance foil strain gauges. <i>Measurement Science and Technology</i> , 2007, 18, 1175-1184.	1.4	34
48	Fiber-optic chemical sensing with Langmuir-Blodgett overlay waveguides. <i>Applied Optics</i> , 1999, 38, 7370.	2.1	31
49	Automated manufacture of 3D reinforced aerospace composite structures. <i>International Journal of Structural Integrity</i> , 2012, 3, 22-40.	1.8	30
50	Pronounced aromatic carboxylic acid detection using a layer-by-layer mesoporous coating on optical fibre long period grating. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 300-309.	4.0	29
51	Surface strain measurement using multi-component shearography with coherent fibre-optic imaging bundles. <i>Measurement Science and Technology</i> , 2007, 18, 3583-3591.	1.4	26
52	Dynamic Fiber-Optic Shape Sensing Using Fiber Segment Interferometry. <i>Journal of Lightwave Technology</i> , 2018, 36, 917-925.	2.7	26
53	A pressure sensor based upon the transverse loading of a sub-section of an optical fibre Bragg grating. <i>Measurement Science and Technology</i> , 2007, 18, 3103-3110.	1.4	24
54	Fiber Segment Interferometry for Dynamic Strain Measurements. <i>Journal of Lightwave Technology</i> , 2016, 34, 4620-4626.	2.7	24

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55	Volatile Organic Compounds Sensing Using Optical Fibre Long Period Grating with Mesoporous Nano-Scale Coating. <i>Sensors</i> , 2017, 17, 205.	2.1	24
56	Sensitivity Enhancement in Low Cutoff Wavelength Long-Period Fiber Gratings by Cladding Diameter Reduction. <i>Sensors</i> , 2017, 17, 2094.	2.1	23
57	Tuneable and switchable dual wavelength lasers using optical fibre Bragg grating external cavities. <i>Electronics Letters</i> , 2002, 38, 1033.	0.5	22
58	Polarization-multiplexed and phase-stepped fibre optic shearography using laser wavelength modulation. <i>Measurement Science and Technology</i> , 2000, 11, 1389-1395.	1.4	21
59	Experimental observations on the response of 1 st and 2 nd order fibre optic long period grating coupling bands to the deposition of nanostructured coatings. <i>Optics Express</i> , 2007, 15, 13096.	1.7	21
60	Surface strain measurement of rotating objects using pulsed laser shearography with coherent fibre-optic imaging bundles. <i>Measurement Science and Technology</i> , 2008, 19, 105301.	1.4	21
61	[INVITED] Porphyrin-nanoassembled fiber-optic gas sensor fabrication: Optimization of parameters for sensitive ammonia gas detection. <i>Optics and Laser Technology</i> , 2018, 101, 1-10.	2.2	21
62	<title>Time-division-multiplexed 3D shearography</title>. , 1999, , .		20
63	Monitoring cure in epoxies containing carbon nanotubes with an optical fiber Fresnel refractometer. <i>Journal of Applied Polymer Science</i> , 2009, 113, 730-735.	1.3	19
64	Optical Gas Sensor Fabrication Based on Porphyrin-Anchored Electrostatic Self-Assembly onto Tapered Optical Fibers. <i>Analytical Letters</i> , 2012, 45, 1297-1309.	1.0	19
65	BaTiO ₃ waveguide self-pumped phase conjugator. <i>Optics Letters</i> , 1993, 18, 1138.	1.7	18
66	Response of the transmission spectrum of tapered optical fibres to the deposition of a nanostructured coating. <i>Measurement Science and Technology</i> , 2009, 20, 034001.	1.4	18
67	Fibre Bragg grating based effective soil pressure sensor for geotechnical applications. <i>Proceedings of SPIE</i> , 2009, , .	0.8	17
68	A Novel Ammonia Gas Sensor Using a Nanoassembled Polyelectrolyte Thin Film on Fiber-optic Long-period Gratings. <i>Chemistry Letters</i> , 2012, 41, 1297-1299.	0.7	17
69	Fibre optic based reference beam laser Doppler velocimetry. <i>Optics Communications</i> , 1995, 119, 460-464.	1.0	16
70	Design considerations for a three dimensional fiber optic laser Doppler velocimeter for turbomachinery applications. <i>Review of Scientific Instruments</i> , 1997, 68, 3241-3246.	0.6	16
71	The influence of hydrogen loading and the fabrication process on the mechanical strength of optical fibre Bragg gratings. <i>Optical Materials</i> , 2002, 20, 241-251.	1.7	16
72	Single-axis combined shearography and digital speckle photography instrument for full surface strain characterization. <i>Optical Engineering</i> , 2005, 44, 025602.	0.5	15

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73	Multi-component strain development in superconducting magnet coils monitored using fibre Bragg grating sensors fabricated in highly linearly birefringent fibre. Smart Materials and Structures, 2011, 20, 125004.	1.8	15
74	Full surface strain measurement using shearography. , 2001, 4448, 142.		14
75	High sensitivity pressure measurement using optical fibre sensors mounted on a composite diaphragm. Optics Express, 2021, 29, 4105.	1.7	14
76	Observation and modeling of dynamic instabilities in the mutually pumped bird-wing phase conjugator in BaTiO ₃ . Journal of the Optical Society of America B: Optical Physics, 1990, 7, 2294.	0.9	13
77	Monitoring transient strains on a gun barrel using fibre Bragg-grating sensors. Measurement Science and Technology, 1999, 10, 63-67.	1.4	13
78	A simple and wavelength-flexible procedure for fabricating phase-shifted fibre Bragg gratings. Measurement Science and Technology, 2010, 21, 094001.	1.4	13
79	Novel Highly Sensitive Protein Sensors Based on Tapered Optical Fibres Modified with Au-Based Nanocoatings. Journal of Sensors, 2016, 2016, 1-11.	0.6	13
80	Dissolved Oxygen Sensing Using an Optical Fiber Long Period Grating Coated With Hemoglobin. Journal of Lightwave Technology, 2016, 34, 4506-4510.	2.7	13
81	Application of fibre optic sensing systems to measure rotor blade structural dynamics. Mechanical Systems and Signal Processing, 2021, 158, 107758.	4.4	13
82	Optical low-coherence tomography of bronchial tissue. , 1999, , .		12
83	Submicrometer fiber-optic Fabry-Pérot interferometer formed by use of the Langmuir-Blodgett technique. Optics Letters, 2001, 26, 1840.	1.7	12
84	Pressure measurements on aircraft wing using phase-shifted fibre Bragg grating sensors. , 2009, , .		12
85	Enhanced sensitivity fibre Bragg grating (FBG) load sensor. Measurement Science and Technology, 2010, 21, 094006.	1.4	12
86	Monitoring techniques for the manufacture of tapered optical fibers. Applied Optics, 2015, 54, 8531.	2.1	12
87	Overwrite fabrication and tuning of long period gratings. Optics Express, 2016, 24, 22345.	1.7	11
88	Second-harmonic generation in Langmuir-Blodgett waveguide overlays on single-mode optical fiber. Optics Letters, 1999, 24, 1194.	1.7	10
89	Pipe Weld Investigation using Shearography. Strain, 2003, 39, 101-105.	1.4	10
90	Properties of Length-Apodized Phase-Shifted LPGs Operating at the Phase Matching Turning Point. Journal of Lightwave Technology, 2012, 30, 2203-2209.	2.7	10

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91	Production process monitoring and post-production strain measurement on a full-size carbon-fibre composite aircraft tail cone assembly using embedded optical fibre sensors. Measurement Science and Technology, 2020, 31, 105204.	1.4	10
92	Extraordinary-polarized light does not always yield the highest reflectivity in self-pumped BaTiO ₃ . Optics Letters, 1991, 16, 633.	1.7	9
93	Photorefractive volume holographic demodulation of in-fiber Bragg grating sensors. IEEE Photonics Technology Letters, 1996, 8, 664-666.	1.3	9
94	A polarization-based optical fibre vibrometer. Measurement Science and Technology, 1997, 8, 343-347.	1.4	9
95	Multicomponent shearography employing four measurements channels. , 2003, 4933, 135.		9
96	On-line monitoring of multi-component strain development in a tufting needle using optical fibre Bragg grating sensors. Smart Materials and Structures, 2014, 23, 075001.	1.8	9
97	Application Issues Using Fibre Bragg Gratings as Strain Sensors in Fibre Composites. Strain, 2000, 36, 143-150.	1.4	8
98	Transmission line method for the simulation of fiber Bragg gratings. Applied Optics, 2019, 58, 353.	0.9	8
99	Waveguide mutually pumped phase conjugators. Applied Optics, 1993, 32, 5299.	2.1	7
100	<title>Influence of process route on mechanical and sensing performance of fiber Bragg grating optical sensors</title>. , 1999, , .		7
101	Fibre-Optic Chemical Sensor Approaches Based on Nanoassembled Thin Films: A Challenge to Future Sensor Technology. , 2013, , .		7
102	Identification and quality assessment of beverages using a long period grating fibre-optic sensor modified with a mesoporous thin film. Sensing and Bio-Sensing Research, 2014, 1, 26-33.	2.2	7
103	In-situ Curing Strain Monitoring of a Flat Plate Residual Stress Specimen Using a Chopped Stand Mat Glass/Epoxy Composite as Test Material. Applied Composite Materials, 2015, 22, 805-822.	1.3	7
104	All-optical switching based on optical fibre long period gratings modified bacteriorhodopsin. Optics and Laser Technology, 2018, 101, 162-171.	2.2	7
105	Electromagnetic field controlled domain wall displacement for induced strain tailoring in BaTiO ₃ -epoxy nanocomposite. Scientific Reports, 2022, 12, 7504.	1.6	7
106	Intensity-dependent thresholding and switching in the photorefractive bridge mutually pumped phase conjugator. Optics Letters, 1991, 16, 551.	1.7	6
107	<title>Bend sensing in structures using long-period optical fiber gratings</title>. , 2000, 4073, 311.		6
108	Shadow Moiré method for the determination of the source position in three-dimensional shearography. Optics and Lasers in Engineering, 2001, 36, 317-329.	2.0	6

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109	A simple method for fabricating phase-shifted fibre Bragg gratings with flexible choice of centre wavelength. , 2009, , .		6
110	A fibre Bragg grating-based inclinometer system for ground movement measurement. Proceedings of SPIE, 2010, , .	0.8	6
111	Resin Directional Flow and Degree of Cure Sensing Using Chirped Optical Fiber Long Period Gratings. IEEE Sensors Journal, 2017, 17, 6605-6614.	2.4	6
112	<title>3D shearography for surface strain analysis</title>. , 1999, 3783, 247.		5
113	Rouard's method as a modelling tool for the sensing characteristics of complex fibre Fabry-Perot interferometers formed between chirped fibre Bragg gratings. , 2005, 5855, 338.		5
114	Ammonia sensing using a fibre optic long period grating with a porous nanostructured coating formed from silica nanospheres. , 2010, , .		5
115	Multiplexing a serial array of tapered optical fibre sensors using coherent optical frequency domain reflectometry. Measurement Science and Technology, 2012, 23, 105203.	1.4	5
116	Multiplexed fibre optic sensors for monitoring resin infusion, flow, and cure in composite material processing. , 2013, , .		5
117	Simultaneous laser vibrometry on multiple surfaces with a single beam system using range-resolved interferometry. , 2015, , .		5
118	A technique for depositing non-centrosymmetric Langmuir-Blodgett films onto optical fibres. Measurement Science and Technology, 1999, 10, N60-N62.	1.4	4
119	<title>Strain measurement in curved industrial components using multicomponent shearography</title>. , 2001, 4398, 216.		4
120	Simultaneous independent measurement of temperature and strain using a tilted fibre Bragg grating. Proceedings of SPIE, 2007, , .	0.8	4
121	Frequency division multiplexing for interferometric planar Doppler velocimetry. Applied Optics, 2014, 53, 4363.	0.9	4
122	Modifying monolayer behaviour by incorporating subphase additives and improving Langmuir-Blodgett thin film deposition on optical fibres. Materials Chemistry and Physics, 2014, 144, 179-185.	2.0	4
123	Development of the Cranfield University Bulldog flight test facility. Aeronautical Journal, 2017, 121, 533-552.	1.1	4
124	Long Period Grating Based Fibre Optic Chemical Sensors. Smart Sensors, Measurement and Instrumentation, 2017, , 241-267.	0.4	4
125	Optimized Process for Fabricating Ultrashort Tapered Long-Period Gratings. Journal of Lightwave Technology, 2018, 36, 1091-1096.	2.7	4
126	Long-period grating fiber-optic sensors exploiting molecularly imprinted TiO2 nanothin films with photocatalytic self-cleaning ability. Mikrochimica Acta, 2020, 187, 663.	2.5	4

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127	Fibre-optic measurement of strain and shape on a helicopter rotor blade during a ground run: 1. Measurement of strain. Smart Materials and Structures, 2022, 31, 075014.	1.8	4
128	Logarithmic output from cascaded two-beam coupling interactions in photorefractive crystals. Applied Optics, 1990, 29, 3362.	2.1	3
129	AFM observation of surface topography of fibre Bragg gratings fabricated in germanium-“boron codoped fibres and hydrogen-loaded fibres. Optical Materials, 2002, 20, 283-294.	1.7	3
130	Refractive index sensitivity of fibre optic long period gratings with SiO ₂ nanoparticle based mesoporous coatings. Proceedings of SPIE, 2011, , .	0.8	3
131	Optical Fibre Long-Period Gratings Functionalised with Nano-Assembled Thin Films: Approaches to Chemical Sensing. , 2013, , .		3
132	Sensitive protein detection using an optical fibre long period grating sensor anchored with silica core gold shell nanoparticles. Proceedings of SPIE, 2014, , .	0.8	3
133	Highly sensitive contact pressure measurements using FBG patch in endotracheal tube cuff. Proceedings of SPIE, 2016, , .	0.8	3
134	Editorial for the special feature on Advanced In-flight Measurement Techniques AIM2. Measurement Science and Technology, 2017, 28, 040101.	1.4	3
135	Fibre-optic measurement of strain and shape on a helicopter rotor blade during a ground run: 2. Measurement of shape. Smart Materials and Structures, 2022, 31, 075015.	1.8	3
136	<title>On-axis laser doppler velocimetry for turbomachinery applications using optical fiber techniques</title>. , 1997, 3172, 17.		2
137	Transient strain monitoring on a gun barrel using optical fiber Bragg grating sensors. , 1998, , .		2
138	<title>Polarization-multiplexed and phase-stepped fiber optic shearography using laser wavelength modulation</title>. , 1999, 3745, 149.		2
139	Multicomponent shearography using optical fiber imaging-bundles. , 2003, , .		2
140	Multi-component pulsed-laser shearography using optical fiber imaging-bundles. , 2003, , .		2
141	Multicomponent laser shearography for the investigation of defects in rotating machinery. , 2004, 5457, 546.		2
142	Cascaded long period gratings with nano-structured coatings. , 2005, , .		2
143	Cure monitoring of a UV cured epoxy resin using a long period grating Mach-Zehnder interferometer. Proceedings of SPIE, 2007, , .	0.8	2
144	Fabrication of highly efficient fibre-optic gas sensors using SiO ₂ /polymer nanoporous thin films. , 2008, , .		2

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145	Fabrication of sensitive fibre-optic gas sensors based on nano-assembled thin films. , 2008, , .		2
146	A chirped long period grating sensor for monitoring flow direction and cure of a resin. Proceedings of SPIE, 2013, , .	0.8	2
147	Wind tunnel unsteady pressure measurements using a differential optical fiber Fabry-Perot pressure sensor. , 2014, , .		2
148	Detection of the volatile organic compounds emitted from paints using optical fibre long period grating modified with the mesoporous nano-scale coating. Proceedings of SPIE, 2015, , .	0.8	2
149	Interrogation of fibre Bragg gratings through a fibre optic rotary joint on a geotechnical centrifuge. , 2016, , .		2
150	Ammonia sensing using lossy mode resonances in a tapered optical fiber coated with porphyrin-incorporated titanium dioxide. Proceedings of SPIE, 2016, , .	0.8	2
151	Soil moisture content measurement using optical fiber long period gratings. , 2017, , .		2
152	Multi-parameter measurements using optical fibre long period gratings for indoor air quality monitoring. Proceedings of SPIE, 2017, , .	0.8	2
153	The effect of UV irradiation duty cycle on the 2nd harmonic coupling efficiency in optical fiber long period gratings. Optics and Laser Technology, 2019, 109, 227-232.	2.2	2
154	2.1 - Adaption of Fibre Optic Sensors and Data Processing Systems for Flight Test on a Bulldog Light Aircraft. , 2016, , .		2
155	A solution to the slow stabilisation of surface pressure sensors based on the Wilhelmy method , Matters, 0, , .	1.0	2
156	Phase-conjugate fluorozirconate fiber laser operating at 800 nm. Optics Letters, 1992, 17, 1676.	1.7	1
157	<title>3D fiber optic laser Doppler velocimetry</title>. , 1996, , .		1
158	<title>Chemical sensing using Langmuir-Blodgett waveguide overlays on single-mode optical fibers</title>. , 1997, , .		1
159	Impact detection in carbon fiber reinforced polymer composites using in-fiber Bragg gratings. , 1998, 3479, 192.		1
160	<title>Pseudoheterodyne signal processing scheme for interrogation of fiber Bragg grating sensor arrays</title>. , 1998, 3478, 266.		1
161	Fibre optic sensing using Langmuir-Blodgett thin film overlays. , 2004, , .		1
162	Comparison of shearography and optical fibre Bragg grating strain sensors with resistance foil strain gauge measurements. , 2005, , .		1

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163	Deposition of SiO ₂ /polymer nanoporous thin films on long-period grating (LPG) optical fibres and dramatic enhancement of the resonance bands. , 2008, , .		1
164	A long period grating based directional flow sensor. Proceedings of SPIE, 2008, , .	0.8	1
165	Multicomponent strain development in superconducting magnet coils using optical fibre grating sensors fabricated in highly linearly birefringent fibre. Proceedings of SPIE, 2009, , .	0.8	1
166	Frequency-division multiplexing for multicomponent shearography. Applied Optics, 2013, 52, 350.	0.9	1
167	Transverse strain response of in-fibre Fabry-Perot microcavities. Proceedings of SPIE, 2014, , .	0.8	1
168	Long period grating sensors response to photosensitive bacteriorhodopsin coating. Proceedings of SPIE, 2015, , .	0.8	1
169	Photodecomposition of a target compound detected using an optical fibre long period grating coated with a molecularly imprinted titania thin film. , 2015, , .		1
170	Measurements of endotracheal tube cuff contact pressure using fibre Bragg gratings. , 2015, , .		1
171	U-shaped evanescent wave optical fibre sensor based on a porphyrin anchored nanoassembled thin film for high sensitivity ammonia detection. Proceedings of SPIE, 2015, , .	0.8	1
172	Biomedical application of optical fibre sensors. , 2017, , .		1
173	Monitoring the fabrication of tapered optical fibres. Proceedings of SPIE, 2017, , .	0.8	1
174	Fibre Bragg grating sensors for the analysis of pressure distribution at a disc brake/pad interface. Proceedings of SPIE, 2017, , .	0.8	1
175	Fibre optic long period grating sensor for campylobacter jejuni detection. , 2017, , .		1
176	On-line load monitoring of a tufting needle using optical fibre Bragg grating sensors. , 2012, , .		1
177	Investigation of the fringe order in multi-component shearography surface strain measurement. , 2006, , 212-216.		1
178	High Power Diode Laser Array Beam Combination Via Injection Locking And Photorefractive Beam Coupling. , 1990, , .		0
179	Reference beam laser Doppler velocimeter incorporating fiber optic components. , 1995, , .		0
180	<title>Demodulation of in-fiber Bragg grating sensors using volume holograms</title>. , 1996, 2838, 52.		0

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181	Fiber optic pH sensors using thin-film Langmuir-Blodgett overlay waveguides on single-mode optical fibers. , 1997, 3133, 264.		0
182	In-situ internal strain development and cure monitoring in a curing composite using in-fiber Bragg gratings and dielectric sensors. , 1998, 3479, 200.		0
183	Multidimensional strain and temperature measurements using a novel high-birefringent fiber Bragg grating interrogation system. , 2004, , .		0
184	Comparison of optical fibre Bragg grating strain sensors with shearography and resistance foil strain gauge measurements. , 2005, , .		0
185	Measurement of surface strain using multi-component pulsed laser shearography with coherent fibre-optic bundles. , 2007, , .		0
186	Nested long period grating interferometers. , 2007, , .		0
187	Fibre grating refractometer sensors for composite process monitoring. , 2007, , .		0
188	Transversely loaded fibre Bragg grating for pressure measurements. Proceedings of SPIE, 2007, , .	0.8	0
189	Development of a multi-component shearography instrument for surface strain measurement on dynamic objects. , 2008, , .		0
190	Multiplexing tapered optical fibres using coherent optical frequency domain reflectometry. , 2012, , .		0
191	Temperature and surrounding refractive index insensitive cascaded long period grating chemical sensor. Proceedings of SPIE, 2014, , .	0.8	0
192	The effect of surface pressure modification on the speed of vortex rings. Fluid Dynamics Research, 2014, 46, 055503.	0.6	0
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