JosÃ© LuÃ-s Santos

List of Publications by Year
in descending order

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326	6,826	44042	85498
papers	citations	48 h-index	71 g-index

327	327	327	4316
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical sensing with photonic crystal fibers. Laser and Photonics Reviews, 2008, 2, 449-459.	4.4	204
2	From conventional sensors to fibre optic sensors for strain and force measurements in biomechanics applications: A review. Journal of Biomechanics, 2014, 47, 1251-1261.	0.9	183
3	Review of fiber-optic pressure sensors for biomedical and biomechanical applications. Journal of Biomedical Optics, 2013, 18, 050903.	1.4	176
4	Fiber Bragg grating sensing system for simultaneous measurement of salinity and temperature. Optical Engineering, 2004, 43, 299.	0.5	171
5	All-fiber Mach-Zehnder curvature sensor based on multimode interference combined with a long-period grating. Optics Letters, 2007, 32, 3074.	1.7	145
6	Optical Current Sensors for High Power Systems: A Review. Applied Sciences (Switzerland), 2012, 2, 602-628.	1.3	135
7	Recent Advances in High-Birefringence Fiber Loop Mirror Sensors. Sensors, 2007, 7, 2970-2983.	2.1	121
8	A Review of Palladium-Based Fiber-Optic Sensors for Molecular Hydrogen Detection. IEEE Sensors Journal, 2012, 12, 93-102.	2.4	114
9	Optical inclinometer based on a single long-period fiber grating combined with a fused taper. Optics Letters, 2006, 31, 2960.	1.7	112
10	Temperature-Independent Strain Sensor Based on a Hi-Bi Photonic Crystal Fiber Loop Mirror. IEEE Sensors Journal, 2007, 7, 1453-1455.	2.4	111
11	Optical Fiber Sensing Using Quantum Dots. Sensors, 2007, 7, 3489-3534.	2.1	107
12	Simultaneous Measurement for Strain and Temperature Based on a Long-Period Grating Combined With a High-Birefringence Fiber Loop Mirror. IEEE Photonics Technology Letters, 2006, 18, 2407-2409.	1.3	103
13	Applications of Fiber Optic Grating Technology to Multi-Parameter Measurement. Fiber and Integrated Optics, 2005, 24, 227-244.	1.7	102
14	Arc-Induced Long-Period Gratings. Fiber and Integrated Optics, 2005, 24, 245-259.	1.7	100
15	Fiber Bragg gratingâ€“based self-referencing technique for wavelength-multiplexed intensity sensors. Optics Letters, 2002, 27, 222.	1.7	94
16	Fabryâ€“Perot cavity based on a diaphragm-free hollow-core silica tube. Optics Letters, 2011, 36, 4029.	1.7	90
17	Simultaneous measurement of multiparameters using a Sagnac interferometer with polarization maintaining side-hole fiber. Applied Optics, 2008, 47, 4841.	2.1	87
18	Modal interferometer based on hollow-core photonic crystal fiber for strain and temperature measurement. Optics Express, 2009, 17, 18669.	1.7	84

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19	Optical fiber sensing with a low-finesse Fabryâ€“Perot cavity. Applied Optics, 1992, 31, 7361.	2.1	83
20	Analysis of the reflective-matched fiber Bragg grating sensing interrogation scheme. Applied Optics, 1997, 36, 934.	2.1	81
21	Discrimination of strain and temperature using Bragg gratings in microstructured and standard optical fibres. Measurement Science and Technology, 2005, 16, 2109-2113.	1.4	74
22	Multiwavelength fiber laser based on a photonic crystal fiber loop mirror with cooperative Rayleigh scattering. Applied Physics B: Lasers and Optics, 2010, 99, 391-395.	1.1	74
23	All Fiber Machâ€“Zehnder Interferometer Based on Suspended Twin-Core Fiber. IEEE Photonics Technology Letters, 2010, 22, 1300-1302.	1.3	74
24	Fabry-Perot refractometer based on an end-of-fiber polymer tip. Optics Letters, 2009, 34, 2474.	1.7	73
25	Fiber optic hot-wire flowmeter based on a metallic coated hybrid long period grating/fiber Bragg grating structure. Applied Optics, 2011, 50, 2738.	2.1	73
26	Curvature sensor using a highly birefringent photonic crystal fiber with two asymmetric hole regions in a Sagnac interferometer. Applied Optics, 2008, 47, 2520.	2.1	71
27	Towards the control of highly sensitive Fabry-PÃ©rot strain sensor based on hollow-core ring photonic crystal fiber. Optics Express, 2012, 20, 21946.	1.7	71
28	Fiber-Optic Interferometric Torsion Sensor Based on a Two-LP-Mode Operation in Birefringent Fiber. IEEE Photonics Technology Letters, 2009, 21, 1277-1279.	1.3	69
29	Temperature and strain insensitive bending measurements with D-type fibre Bragg gratings. Measurement Science and Technology, 2001, 12, 829-833.	1.4	68
30	Mandrel-Based Fiber-Optic Sensors for Acoustic Detection of Partial Dischargesâ€”a Proof of Concept. IEEE Transactions on Power Delivery, 2010, 25, 2526-2534.	2.9	68
31	Intrinsic Fabryâ€“PÃ©rot Cavity Sensor Based on Etched Multimode Graded Index Fiber for Strain and Temperature Measurement. IEEE Sensors Journal, 2012, 12, 8-12.	2.4	63
32	A reflective optical fiber refractometer based on multimode interference. Sensors and Actuators B: Chemical, 2012, 161, 88-92.	4.0	63
33	Optical flowmeter using a modal interferometer based on a single nonadiabatic fiber taper. Optics Letters, 2007, 32, 1974.	1.7	62
34	Optical refractometer based on a birefringent Bragg grating written in an H-shaped fiber. Optics Letters, 2009, 34, 76.	1.7	62
35	Chirped Bragg grating fabricated in fused fibre taper for strainâ€“temperature discrimination. Measurement Science and Technology, 2005, 16, 984-988.	1.4	61
36	Fabryâ€“PÃ‰rot Cavity Based on a Suspended-Core Fiber for Strain and Temperature Measurement. IEEE Photonics Technology Letters, 2009, 21, 1229-1231.	1.3	61

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37	Multiwavelength Raman Fiber Lasers Using Hi-Bi Photonic Crystal Fiber Loop Mirrors Combined With Random Cavities. Journal of Lightwave Technology, 2011, 29, 1482-1488.	2.7	61
38	Refractive index sensing of aqueous media based on plasmonic resonance in tapered optical fibres operating in the 1.5Î¼m region. Sensors and Actuators B: Chemical, 2010, 146, 195-198.	4.0	60
39	H₂ Sensing Based on a Pd-Coated Tapered-FBG Fabricated by DUV Femtosecond Laser Technique. IEEE Photonics Technology Letters, 2013, 25, 401-403.	1.3	60
40	Temperature and strain-independent curvature sensor based on a singlemode/multimode fiber optic structure. Measurement Science and Technology, 2011, 22, 085201.	1.4	59
41	Refractometric sensor based on a phase-shifted long-period fiber grating. Applied Optics, 2006, 45, 5066.	2.1	57
42	Refractive index measurement with long-period gratings arc-induced in pure-silica-core fibres. Optics Communications, 2006, 259, 598-602.	1.0	56
43	Quantum dots as self-referenced optical fibre temperature probes for luminescent chemical sensors. Measurement Science and Technology, 2006, 17, 1032-1038.	1.4	56
44	Sensing Structure Based on Surface Plasmon Resonance in Chemically Etched Single Mode Optical Fibres. Plasmonics, 2015, 10, 319-327.	1.8	56
45	A fibre optic humidity sensor based on a long-period fibre grating coated with a thin film of SiO₂nanospheres. Measurement Science and Technology, 2009, 20, 034002.	1.4	54
46	Comprehensive numerical analysis of a surface-plasmon-resonance sensor based on an H-shaped optical fiber. Optics Express, 2011, 19, 13980.	1.7	51
47	Effect of ionizing radiation on the properties of arc-induced long-period fiber gratings. Applied Optics, 2005, 44, 6258.	2.1	50
48	Simultaneous Measurement of Humidity and Temperature Based on an SiO$_{2}$-Nanospheres Film Deposited on a Long-Period Grating In-Line With a Fiber Bragg Grating. IEEE Sensors Journal, 2011, 11, 162-166.	2.4	50
49	Superimposed Bragg gratings in high-birefringence fibre optics: three-parameter simultaneous measurements. Measurement Science and Technology, 2004, 15, 1453-1457.	1.4	49
50	Strain sensitivity control of fiber Bragg grating structures with fused tapers. Applied Optics, 2007, 46, 8578.	2.1	49
51	Strain and Temperature Discrimination Using Concatenated High-Birefringence Fiber Loop Mirrors. IEEE Photonics Technology Letters, 2007, 19, 1260-1262.	1.3	49
52	High birefringence D-type fibre loop mirror used as refractometer. Sensors and Actuators B: Chemical, 2008, 135, 108-111.	4.0	49
53	Simultaneous measurement of strain and temperature using a Bragg grating structure written in germanosilicate fibres. Journal of Optics, 2004, 6, 553-556.	1.5	48
54	Fiber-Optic Inclinometer Based on Taper Michelson Interferometer. IEEE Sensors Journal, 2011, 11, 1811-1814.	2.4	48

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55	Raman fibre Bragg-grating laser sensor with cooperative Rayleigh scattering for strainâ€“temperature measurement. Measurement Science and Technology, 2009, 20, 045203.	1.4	46
56	Optical fiber refractometry based on multimode interference. Applied Optics, 2011, 50, E184.	2.1	45
57	Micro-displacement or bending measurement using a long-period fibre grating in a self-referenced fibre optic intensity sensor. Optics Communications, 2006, 260, 8-11.	1.0	42
58	Dual sensing of oxygen and temperature using quantum dots and a ruthenium complex. Analytica Chimica Acta, 2008, 606, 223-229.	2.6	42
59	Arc-induced long-period gratings in aluminosilicate glass fibers. Optics Letters, 2005, 30, 2065.	1.7	38
60	Remote System for Detection of Low-Levels of Methane Based on Photonic Crystal Fibres and Wavelength Modulation Spectroscopy. Journal of Sensors, 2009, 2009, 1-10.	0.6	38
61	Analysis of Phase Interrogated SPR Fiber Optic Sensors With Bimetallic Layers. IEEE Sensors Journal, 2014, 14, 3662-3668.	2.4	38
62	Optical refractometer based on large-core air-clad photonic crystal fibers. Optics Letters, 2011, 36, 852.	1.7	36
63	Curvature and Temperature Discrimination Using Multimode Interference Fiber Optic Structuresâ€”A Proof of Concept. Journal of Lightwave Technology, 2012, 30, 3569-3575.	2.7	36
64	Fiber optic hydrogen sensor based on an etched Bragg grating coated with palladium. Applied Optics, 2015, 54, 10342.	2.1	36
65	Simultaneous determination of curvature, plane of curvature, and temperature by use of a miniaturized sensing head based on fiber Bragg gratings. Applied Optics, 2002, 41, 2401.	2.1	35
66	Applications of quantum dots in optical fiber luminescent oxygen sensors. Applied Optics, 2006, 45, 3760.	2.1	35
67	Aptamer-based fiber sensor for thrombin detection. Journal of Biomedical Optics, 2016, 21, 087005.	1.4	35
68	Fabry-Perot cavity based on silica tube for strain sensing at high temperatures. Optics Express, 2015, 23, 16063.	1.7	34
69	Quasi-distributed displacement sensor for structural monitoring using a commercial OTDR. Optics and Lasers in Engineering, 2006, 44, 771-778.	2.0	33
70	Fabryâ€“PÃ©rot cavities based on chemical etching for high temperature and strain measurement. Optics Communications, 2012, 285, 1159-1162.	1.0	33
71	Simultaneous Measurement of Refractive Index and Temperature Using a Hybrid Fiber Bragg Grating/Long-Period Fiber Grating Configuration. Fiber and Integrated Optics, 2009, 28, 440-449.	1.7	32
72	Sensitivity Improvement of a Humidity Sensor Based on Silica Nanospheres on a Long-Period Fiber Grating. Sensors, 2009, 9, 519-527.	2.1	32

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73	Characterization of the response of a dual resonance of an arc-induced long-period grating to various physical parameters. Applied Optics, 2010, 49, 2994.	2.1	32
74	Fiber optic intensity-modulated sensors: a review in biomechanics. Photonic Sensors, 2012, 2, 315-330.	2.5	30
75	Multimodal Interferometer Based on a Suspended Core Fiber for Simultaneous Measurement of Physical Parameters. Journal of Lightwave Technology, 2015, 33, 2468-2473.	2.7	30
76	Polarization dependent loss of arc-induced long-period fibre gratings. Optics Communications, 2006, 262, 152-156.	1.0	29
77	Fiber Optic-Based Refractive Index Sensing at INESC Porto. Sensors, 2012, 12, 8371-8389.	2.1	29
78	Silica microspheres array strain sensor. Optics Letters, 2014, 39, 5937.	1.7	29
79	Multiplexing of Surface Plasmon Resonance Sensing Devices on Etched Single-Mode Fiber. Journal of Lightwave Technology, 2015, 33, 432-438.	2.7	29
80	Fiber Bragg Grating Structures with Fused Tapers. Fiber and Integrated Optics, 2011, 30, 9-28.	1.7	26
81	Simultaneous measurement of strain and temperature using type I and type IIA fibre Bragg gratings. Journal of Optics, 2003, 5, 183-185.	1.5	25
82	Optic fibre sensor for real-time damage detection in smart composite. Computers and Structures, 2004, 82, 1315-1321.	2.4	25
83	Luminescence-Based Optical Fiber Chemical Sensors. Fiber and Integrated Optics, 2005, 24, 201-225.	1.7	25
84	Ultralong 250 km remote sensor system based on a fiber loop mirror interrogated by an optical time-domain reflectometer. Optics Letters, 2011, 36, 4059.	1.7	25
85	Micro-Displacement Sensor Based on a Hollow-Core Photonic Crystal Fiber. Sensors, 2012, 12, 17497-17503.	2.1	24
86	Next generation of Fabry-Perot sensors for high-temperature. Optical Fiber Technology, 2013, 19, 833-837.	1.4	24
87	Simultaneous temperature and strain measurements performed by a step-changed arc-induced long-period fiber grating. Applied Optics, 2007, 46, 1392.	2.1	23
88	A hybrid Fabryâ€“Perot/Michelson interferometer sensor using a dual asymmetric core microstructured fiber. Measurement Science and Technology, 2010, 21, 025205.	1.4	23
89	Interrogation of a Suspended-Core Fabryâ€“Perot Temperature Sensor Through a Dual Wavelength Raman Fiber Laser. Journal of Lightwave Technology, 2010, , .	2.7	23
90	Fabrication and Characterization of Metal Oxide-Coated Long-Period Fiber Gratings. Journal of Lightwave Technology, 2016, 34, 2533-2539.	2.7	23

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91	Simple sensing head geometry using fibre Bragg gratings for strainâ€“temperature discrimination. Optics Communications, 2007, 279, 68-71.	1.0	22
92	Refractive index tip sensor based on Fabry-Perot cavities formed by a suspended core fibre. Journal of the European Optical Society-Rapid Publications, 0, 4, .	0.9	22
93	Coarse WDM networking of self-referenced fiber-optic intensity sensors with reconfigurable characteristics. Optics Express, 2010, 18, 4396.	1.7	22
94	Suspended-core fibers for sensing applications. Photonic Sensors, 2012, 2, 118-126.	2.5	22
95	Temperature Compensated Strain Sensor Based on Long-Period Gratings and Microspheres. IEEE Photonics Technology Letters, 2018, 30, 67-70.	1.3	22
96	Demodulation of fiber Bragg grating sensors based on dynamic tuning of a multimode laser diode. Applied Optics, 1999, 38, 4751.	2.1	21
97	Radio-Frequency Self-Referencing Technique With Enhanced Sensitivity for Coarse WDM Fiber Optic Intensity Sensors. Journal of Lightwave Technology, 2009, 27, 475-482.	2.7	21
98	Optical fiber interferometer for measuring the d33 coefficient of piezoelectric thin films with compensation of substrate bending. Review of Scientific Instruments, 2002, 73, 2073-2078.	0.6	19
99	Strainâ€“temperature discrimination using a step spectrum profile fibre Bragg grating arrangement. Sensors and Actuators A: Physical, 2005, 120, 490-493.	2.0	19
100	Strain and temperature characterisation of sensing head based on suspended-core fibre in Sagnac interferometer. Electronics Letters, 2008, 44, 1455.	0.5	19
101	On the anodic aluminium oxide refractive index of nanoporous templates. Journal Physics D: Applied Physics, 2015, 48, 455105.	1.3	19
102	Cryogenic Temperature Response of Reflection-Based Phase-Shifted Long-Period Fiber Gratings. Journal of Lightwave Technology, 2015, 33, 2511-2517.	2.7	19
103	Detection of Extra Virgin Olive Oil Thermal Deterioration Using a Long Period Fibre Grating Sensor Coated with Titanium Dioxide. Food and Bioprocess Technology, 2015, 8, 1211-1217.	2.6	19
104	Simultaneous displacement and temperature sensing using a white light interrogated low finesse cavity in line with a fiber Bragg grating. Smart Materials and Structures, 1998, 7, 189-198.	1.8	18
105	Intermodal interferometer for strain and temperature sensing fabricated in birefringent boron doped microstructured fiber. Applied Optics, 2011, 50, 3742.	2.1	18
106	Simultaneous measurement of partial pressure of O_2 and CO_2 with a hybrid interferometer. Optics Letters, 2012, 37, 3063.	1.7	18
107	Fabryâ€“PÃ©rot Cavity Based on Hollow-Core Ring Photonic Crystal Fiber for Pressure Sensing. IEEE Photonics Technology Letters, 2012, 24, 2122-2124.	1.3	18
108	Temperature and Strain Sensing With Femtosecond Laser Written Bragg Gratings in Defect and Nondefect Suspended-Silica-Core Fibers. IEEE Photonics Technology Letters, 2012, 24, 554-556.	1.3	18

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109	Behavior of a hollow core photonic crystal fiber under high radial pressure for downhole application. Applied Physics Letters, 2014, 104, 071910.	1.5	18
110	Coherence sensing of time-addressed optical-fiber sensors illuminated by a multimode laser diode. Applied Optics, 1991, 30, 5068.	2.1	17
111	Polarization-induced noise in a fiber-optic Michelson interferometer with Faraday rotator mirror elements. Applied Optics, 1995, 34, 6399.	2.1	17
112	Demodulation scheme for fiber Bragg grating sensors based on active control of the spectral response of a wavelength division multiplexer. Applied Optics, 1998, 37, 7940.	2.1	17
113	Temperature field acquisition during gas metal arc welding using thermocouples, thermography and fibre Bragg grating sensors. Measurement Science and Technology, 2007, 18, 877-883.	1.4	17
114	Electronic speckle-pattern interferometry using single-mode fibers and active fringe stabilization. Optics Letters, 1990, 15, 573.	1.7	16
115	Passive demodulation of miniature fiber-optic-based interferometric sensors using a time-multiplexing technique. Optics Letters, 1991, 16, 1210.	1.7	16
116	Fibre Bragg grating sensors for monitoring the metal inert gas and friction stir welding processes. Measurement Science and Technology, 2010, 21, 085105.	1.4	16
117	Long-Period Grating Fiber Sensor With In Situ Optical Source for Remote Sensing. IEEE Photonics Technology Letters, 2010, 22, 1533-1535.	1.3	16
118	Fiber laser sensor based on a phase-shifted chirped grating for acoustic sensing of partial discharges. Photonic Sensors, 2013, 3, 44-51.	2.5	16
119	Experimental and Numerical Characterization of a Hybrid Fabry-PÃ©rot Cavity for Temperature Sensing. Sensors, 2015, 15, 8042-8053.	2.1	16
120	Optical sensor based on hybrid FBG/titanium dioxide coated LPFG for monitoring organic solvents in edible oils. Talanta, 2016, 148, 170-176.	2.9	16
121	Optical bend sensor based on a long-period fiber grating monitored by an optical time-domain reflectometer. Optical Engineering, 2005, 44, 110502.	0.5	15
122	Simultaneous measurement of strain and temperature using fibre Bragg gratings in a twisted configuration. Journal of Optics, 2005, 7, 427-430.	1.5	15
123	Optical Fiber Sensing System Based on Long-Period Gratings for Remote Refractive Index Measurement in Aqueous Environments. Fiber and Integrated Optics, 2010, 29, 160-169.	1.7	15
124	Ultra-High Sensitive Strain Sensor Based on Post-Processed Optical Fiber Bragg Grating. Fibers, 2014, 2, 142-149.	1.8	15
125	Optical Inclinometer Based on a Phase-Shifted Bragg Grating in a Taper Configuration. IEEE Photonics Technology Letters, 2014, 26, 405-407.	1.3	15
126	Quantification of Ethanol Concentration in Gasoline Using Cuprous Oxide Coated Long Period Fiber Gratings. IEEE Sensors Journal, 2018, 18, 1493-1500.	2.4	15

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127	Theoretical and Experimental Results of High-Birefringent Fiber Loop Mirror With an Output Port Probe. Journal of Lightwave Technology, 2012, 30, 1032-1036.	2.7	14
128	Post-Processing of Fabryâ€“PÃ©rot Microcavity Tip Sensor. IEEE Photonics Technology Letters, 2013, 25, 1593-1596.	1.3	14
129	Pressure and temperature characterization of two interferometric configurations based on suspended-core fibers. Optics Communications, 2012, 285, 269-273.	1.0	13
130	Ammonia sensing system based on wavelength modulation spectroscopy. Photonic Sensors, 2015, 5, 109-115.	2.5	13
131	ECOAL Projectâ€”Delivering Solutions for Integrated Monitoring of Coal-Related Fires Supported on Optical Fiber Sensing Technology. Applied Sciences (Switzerland), 2017, 7, 956.	1.3	13
132	Nanostrain measurement using chirped Bragg grating Fabry-Perot interferometer. Photonic Sensors, 2012, 2, 77-80.	2.5	12
133	A vibration sensor based on a distributed Bragg reflector fibre laser. Laser Physics Letters, 2013, 10, 095102.	0.6	12
134	In vivomeasurement of the pressure signal in the intervertebral disc of an anesthetized sheep. Journal of Biomedical Optics, 2014, 19, 037006.	1.4	12
135	Evaporation of volatile compounds in suspended-core fibers. Optics Letters, 2014, 39, 3868.	1.7	12
136	Demodulation scheme for fibre Bragg sensors based on source spectral characteristics. Journal of Optics, 1996, 5, 257-261.	0.5	11
137	Fibre Bragg grating interrogation technique based on a chirped grating written in an erbium-doped fibre. Measurement Science and Technology, 2003, 14, 1993-1997.	1.4	11
138	Discrimination of Temperature, Strain, and Transverse Load by Using Fiber Bragg Gratings in a Twisted Configuration. IEEE Sensors Journal, 2006, 6, 1609-1613.	2.4	11
139	Geometrical effects on the refractive index sensitivity of Machâ€“Zehnder fibre modal interferometers based on long-period gratings. Measurement Science and Technology, 2009, 20, 075201.	1.4	11
140	High-Birefringent Fiber Loop Mirror Sensors With an Output Port Probe. IEEE Photonics Technology Letters, 2011, 23, 103-105.	1.3	11
141	Estimation of the fibre temperature during the inscription of arc-induced long-period gratings. Optics Communications, 2006, 259, 620-625.	1.0	10
142	Bending sensitivity dependent on the phase shift imprinted in long-period fibre gratings. Measurement Science and Technology, 2007, 18, 3123-3130.	1.4	10
143	Spatial optical filter sensor based on hollow-core silica tube. Optics Letters, 2012, 37, 890.	1.7	10
144	Long-Period Gratings Dynamic Interrogation With Modulated Fiber Bragg Gratings and Optical Amplification. IEEE Sensors Journal, 2012, 12, 179-183.	2.4	10

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145	A simple, self-referenced, intensity-based optical fibre sensor for temperature measurements. Optics Communications, 2013, 291, 215-218.	1.0	10
146	Micro-Displacement Sensor Combined With a Fiber Ring Interrogated by an Optical Time-Domain Reflectometer. IEEE Sensors Journal, 2014, 14, 793-796.	2.4	10
147	Methane detection system based on Wavelength Modulation Spectroscopy and hollow-core fibres. , 2008, , .		9
148	Optical fibre sensing networks. , 2009, , .		9
149	Analysis of a plasmonic based optical fiber optrode with phase interrogation. Photonic Sensors, 2016, 6, 221-233.	2.5	9
150	Hydrogen sensing via anomalous optical absorption of palladium-based metamaterials. Nanotechnology, 2016, 27, 185501.	1.3	9
151	Design and Fabrication of Slotted Multimode Interference Devices for Chemical and Biological Sensing. Journal of Sensors, 2009, 2009, 1-11.	0.6	8
152	Fiber fabry-perot sensors for acoustic detection of partial discharges in transformers. , 2009, , .		8
153	Investigation of the long-term stability of arc-induced gratings heat treated at high temperatures. Optics Communications, 2011, 284, 169-171.	1.0	8
154	Multi-Plasmonic Resonance Based Sensor for the Characterization of Optical Dispersion Using a D-Shaped Photonic Crystal Fiber. IEEE Instrumentation and Measurement Magazine, 2021, 24, 63-68.	1.2	8
155	Selfâ€referencing resonant fiber optic intensity sensor based on a Machâ€“Zehnder topology. Review of Scientific Instruments, 1996, 67, 3788-3794.	0.6	7
156	Evaluation of coupling losses in hollow-core photonic crystal fibres. , 2007, , .		7
157	Frequency Modulated Continuous Wave System for Optical Fiber Intensity Sensors With Optical Amplification. IEEE Sensors Journal, 2009, 9, 1647-1653.	2.4	7
158	Industrialization of advanced optical technologies for environmental monitoring. Clean Technologies and Environmental Policy, 2010, 12, 65-73.	2.1	7
159	Torsion sensor based on a figure-of-eight cavity fibre laser. Laser Physics Letters, 2013, 10, 045105.	0.6	7
160	Optical Sensors for Industry 4.0. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	1.9	7
161	Demodulation of two time-multiplexed fibre Bragg sensors using source spectral characteristics. Journal of Optics, 1997, 6, 717-726.	0.5	6
162	<title>Simultaneous strain and temperature sensing using an interferometrically interrogated fibre Bragg grating written in bowtie fibre</title>. , 1998, , .		6

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163	Simultaneous measurement of strain and temperature based on polarization loss properties of arc-induced long-period gratings. , 2004, 5502, 168.		6
164	Optical Fiber Sensor Technology in Portugal. Fiber and Integrated Optics, 2005, 24, 171-199.	1.7	6
165	Ring fibre laser with interferometer based in long period grating for sensing applications. Optics Communications, 2008, 281, 5601-5604.	1.0	6
166	Modal Interferometer Based on ARROW Fiber for Strain and Temperature Measurement. IEEE Photonics Technology Letters, 2009, 21, 1636-1638.	1.3	6
167	Intrinsic and extrinsic fiber Fabryâ€Perot sensors for acoustic detection in liquids. Microwave and Optical Technology Letters, 2010, 52, 1129-1134.	0.9	6
168	Interferometric optical fiber inclinometer with dynamic FBG based interrogation. , 2011, , .		6
169	Editorial Third Special Issue on Optical Fiber Sensors. IEEE Sensors Journal, 2012, 12, 5-7.	2.4	6
170	Fiber Loop Mirror Sensors Interrogated and Multiplexed by OTDR. Journal of Lightwave Technology, 2015, 33, 2580-2584.	2.7	6
171	Bi-core optical fiber for sensing of temperature, strain and torsion. Measurement Science and Technology, 2019, 30, 035104.	1.4	6
172	Experimental investigation of a strain gauge sensor based on Fiber Bragg Grating for diameter measurement. Optical Fiber Technology, 2021, 61, 102428.	1.4	6
173	A study of the optical properties of photopolymer Fabry-Perot microcavities by a dual-wavelength fibre optic architecture. Measurement Science and Technology, 2002, 13, 1094-1099.	1.4	5
174	Evaluation of long-period fiber grating temperature sensors in nuclear environments. , 2004, 5502, 88.		5
175	Birefringence monitoring of a Hi-Bi fibre under chemical etching through a fibre loop mirror. Measurement Science and Technology, 2007, 18, N81-N83.	1.4	5
176	Dynamic interrogation for optical fibre sensors based on long-period gratings. Measurement Science and Technology, 2011, 22, 065201.	1.4	5
177	Fiber optic displacement sensor based on a double-reflecting OTDR technique. Microwave and Optical Technology Letters, 2015, 57, 1312-1315.	0.9	5
178	Tunable Plasmonic Resonance Sensor Using a Metamaterial Film in a D-Shaped Photonic Crystal Fiber for Refractive Index Measurements. Applied Sciences (Switzerland), 2022, 12, 2153.	1.3	5
179	Progressive ladder network topology combining interferometric and intensity fiber-optic-based sensors. Applied Optics, 1995, 34, 6481.	2.1	4
180	Simultaneous measurement of temperature and strain using a step spectrum profile fibre Bragg grating arrangement. , 2004, , .		4

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181	Optical inclinometer based on fibre-taper-modal Michelson interferometer. , 2010, , .		4
182	Optical refractometer based on multimode interference in a pure silica tube. Optical Engineering, 2011, 50, 100504.	0.5	4
183	Long period gratings and rocking filters written with a CO2 laser in highly-birefringent boron-doped photonic crystal fibers for sensing applications. Optics Communications, 2012, 285, 264-268.	1.0	4
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