List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9030028/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Fiber optic sensor technology: an overview. Sensors and Actuators A: Physical, 2000, 82, 40-61.	2.0	719
2	Gold nanorod-based localized surface plasmon resonance biosensors: A review. Sensors and Actuators B: Chemical, 2014, 195, 332-351.	4.0	604
3	Fibre-optic sensor technologies for humidity and moisture measurement. Sensors and Actuators A: Physical, 2008, 144, 280-295.	2.0	401
4	Comparison of fluorescence-based temperature sensor schemes: Theoretical analysis and experimental validation. Journal of Applied Physics, 1998, 84, 4649-4654.	1.1	289
5	Characterisation of a polymer-coated fibre Bragg grating sensor for relative humidity sensing. Sensors and Actuators B: Chemical, 2005, 110, 148-156.	4.0	228
6	Wavelength-based localized surface plasmon resonance optical fiber biosensor. Sensors and Actuators B: Chemical, 2013, 181, 611-619.	4.0	130
7	Fluorescence based fibre optic pH sensor for the pH 10–13 range suitable for corrosion monitoring in concrete structures. Sensors and Actuators B: Chemical, 2014, 191, 498-507.	4.0	122
8	Long period grating-based humidity sensor for potential structural health monitoring. Sensors and Actuators A: Physical, 2008, 148, 57-62.	2.0	115
9	Polymer-coated fiber Bragg grating for relative humidity sensing. IEEE Sensors Journal, 2005, 5, 1082-1089.	2.4	114
10	Optimization of gold-nanoparticle-based optical fibre surface plasmon resonance (SPR)-based sensors. Sensors and Actuators B: Chemical, 2012, 164, 43-53.	4.0	85
11	Silver@graphene oxide nanocomposite-based optical sensor platform for biomolecules. RSC Advances, 2015, 5, 17809-17816.	1.7	83
12	LPG-Based PVA Coated Sensor for Relative Humidity Measurement. IEEE Sensors Journal, 2008, 8, 1093-1098.	2.4	72
13	Novel Negative Pressure Wave-Based Pipeline Leak Detection System Using Fiber Bragg Grating-Based Pressure Sensors. Journal of Lightwave Technology, 2017, 35, 3366-3373.	2.7	72
14	LSPR optical fibre sensors based on hollow gold nanostructures. Sensors and Actuators B: Chemical, 2014, 191, 37-44.	4.0	70
15	[INVITED] Developments in optical fibre sensors for industrial applications. Optics and Laser Technology, 2016, 78, 62-66.	2.2	70
16	New Test Method to Obtain pH Profiles due to Carbonation of Concretes Containing Supplementary Cementitious Materials. Journal of Materials in Civil Engineering, 2007, 19, 936-946.	1.3	69
17	A gold nanorod-based localized surface plasmon resonance platform for the detection of environmentally toxic metal ions. Analyst, The, 2015, 140, 2540-2555.	1.7	64
18	Fibre optic long period grating-based humidity sensor probe using a Michelson interferometric arrangement. Sensors and Actuators B: Chemical, 2013, 178, 694-699.	4.0	63

#	Article	IF	CITATIONS
19	Analysis of Polyimide-Coated Optical Fiber Long-Period Grating-Based Relative Humidity Sensor. IEEE Sensors Journal, 2013, 13, 767-771.	2.4	62
20	Graphene-Oxide-Coated Long-Period Grating-Based Fiber Optic Sensor for Relative Humidity and External Refractive Index. Journal of Lightwave Technology, 2018, 36, 1145-1151.	2.7	62
21	Simultaneous Measurement of Strain and Temperature With a Few-Mode Fiber-Based Sensor. Journal of Lightwave Technology, 2018, 36, 2796-2802.	2.7	60
22	Multi-axis force sensors: A state-of-the-art review. Sensors and Actuators A: Physical, 2020, 304, 111772.	2.0	58
23	Obtaining progressive chloride profiles in cementitious materials. Construction and Building Materials, 2005, 19, 666-673.	3.2	52
24	Cross-Comparison of Surface Plasmon Resonance-Based Optical Fiber Sensors With Different Coating Structures. IEEE Sensors Journal, 2012, 12, 2355-2361.	2.4	51
25	Temperature dependence of the fluorescence lifetime in Pr3+:ZBLAN glass for fiber optic thermometry. Review of Scientific Instruments, 1997, 68, 3447-3451.	0.6	49
26	Bragg Grating-Based Fiber-Optic Laser Probe for Temperature Sensing. IEEE Photonics Technology Letters, 2004, 16, 218-220.	1.3	49
27	Intrinsic Fluorescence-Based Optical Fiber Sensor for Cocaine Using a Molecularly Imprinted Polymer as the Recognition Element. IEEE Sensors Journal, 2012, 12, 255-260.	2.4	49
28	Characteristics of potential fibre Bragg grating sensor-based devices at elevated temperatures. Measurement Science and Technology, 2003, 14, 1131-1136.	1.4	48
29	Demonstration of a fibre-optic sensing technique for the measurement of moisture absorption in concrete. Smart Materials and Structures, 2006, 15, N40-N45.	1.8	47
30	Effective surface modification of gold nanorods for localized surface plasmon resonance-based biosensors. Sensors and Actuators B: Chemical, 2012, 169, 360-367.	4.0	46
31	Preparation of novel optical fibre-based Cocaine sensors using a molecular imprinted polymer approach. Sensors and Actuators B: Chemical, 2014, 193, 35-41.	4.0	44
32	Intrinsic Fiber Optic pH Sensor for Measurement of pH Values in the Range of 0.5–6. IEEE Sensors Journal, 2016, 16, 881-887.	2.4	43
33	Non-linear temperature dependence of Bragg gratings written in different fibres, optimised for sensor applications over a wide range of temperatures. Sensors and Actuators A: Physical, 2004, 112, 211-219.	2.0	42
34	Short cavity single frequency fiber laser for in-situ sensing applications over a wide temperature range. Optics Express, 2007, 15, 363.	1.7	42
35	Characterization of erbium-doped intrinsic optical fiber sensor probes at high temperatures. Review of Scientific Instruments, 1998, 69, 2924-2929.	0.6	41
36	Sewerage tunnel leakage detection using a fibre optic moisture-detecting sensor system. Sensors and Actuators A: Physical, 2014, 220, 62-68.	2.0	41

#	Article	IF	CITATIONS
37	Fluorescence decay-time characteristics of erbium-doped optical fiber at elevated temperatures. Review of Scientific Instruments, 1997, 68, 2764-2766.	0.6	40
38	Strain Measurement on a Rail Bridge Loaded to Failure Using a Fiber Bragg Grating-Based Distributed Sensor System. IEEE Sensors Journal, 2008, 8, 2059-2065.	2.4	40
39	Design and in-the-field performance evaluation of compact FBG sensor system for structural health monitoring applications. Sensors and Actuators A: Physical, 2009, 151, 107-112.	2.0	38
40	Temperature and nonlinearity corrections for a photodiode array spectrometer used in the field. Applied Optics, 2011, 50, 866.	2.1	38
41	"All-fiber―tunable laser in the 2Âμm region, designed for CO ₂ detection. Applied Optics, 2012, 51, 7011.	0.9	37
42	Optimization of a long-period grating-based Mach–Zehnder interferometer for temperature measurement. Optics Communications, 2007, 272, 15-21.	1.0	36
43	Optical Fiber Refractive Index Sensor for Chloride Ion Monitoring. IEEE Sensors Journal, 2009, 9, 525-532.	2.4	35
44	Optical Fiber-Based Heavy Metal Detection Using the Localized Surface Plasmon Resonance Technique. IEEE Sensors Journal, 2019, 19, 8720-8726.	2.4	35
45	Lithium-Ion Battery State-of-Charge Estimator Based on FBG-Based Strain Sensor and Employing Machine Learning. IEEE Sensors Journal, 2021, 21, 1453-1460.	2.4	35
46	Evaluation of the Durability and Performance of FBG-Based Sensors for Monitoring Moisture in an Aggressive Gaseous Waste Sewer Environment. Journal of Lightwave Technology, 2017, 35, 3380-3386.	2.7	33
47	Ytterbium-based fluorescence decay time fiber optic temperature sensor systems. Review of Scientific Instruments, 1998, 69, 4179-4185.	0.6	30
48	Erbium/ytterbium fluorescence based fiber optic temperature sensor system. Review of Scientific Instruments, 2000, 71, 4017.	0.6	30
49	Strain and temperature effects on erbium-doped fiber for decay-time based sensing. Review of Scientific Instruments, 2000, 71, 104-108.	0.6	30
50	Analysis of thermal decay and prediction of operational lifetime for a type I boron-germanium codoped Fiber Bragg grating. Applied Optics, 2003, 42, 2188.	2.1	30
51	Morphology and Thermal Stability of Fiber Bragg Gratings for Sensor Applications Written in \${m H}_{2}\$-Free and \${m H}_{2}\$-Loaded Fibers by Femtosecond Laser. IEEE Sensors Journal, 2010, 10, 1675-1681.	2.4	30
52	Study of reliability of fibre Bragg grating fibre optic strain sensors for field-test applications. Sensors and Actuators A: Physical, 2012, 185, 8-16.	2.0	30
53	SPR-Based Optical Fiber Sensors Using Gold–Silver Alloy Particles as the Active Sensing Material. IEEE Sensors Journal, 2013, 13, 2192-2199.	2.4	30
54	Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. IEEE Sensors Journal, 2013, 13, 2555-2562.	2.4	30

#	Article	IF	CITATIONS
55	Monitoring of Corrosion in Structural Reinforcing Bars: Performance Comparison Using <i>In Situ</i> Fiber-Optic and Electric Wire Strain Gauge Systems. IEEE Sensors Journal, 2009, 9, 1494-1502.	2.4	29
56	Ytterbium-sensitized Thulium-doped fiber laser in the near-IR with 980 nm pumping. Optics Express, 2010, 18, 5068.	1.7	29
57	Building Stone Condition Monitoring Using Specially Designed Compensated Optical Fiber Humidity Sensors. IEEE Sensors Journal, 2012, 12, 1011-1017.	2.4	29
58	Wavelength dependent pH optical sensor using the layer-by-layer technique. Sensors and Actuators B: Chemical, 2012, 169, 374-381.	4.0	29
59	Investigations on exponential lifetime measurements for fluorescence thermometry. Review of Scientific Instruments, 2000, 71, 2938-2943.	0.6	28
60	Field tests of fibre Bragg grating sensors incorporated into CFRP for railway bridge strengthening condition monitoring. Sensors and Actuators A: Physical, 2008, 148, 68-74.	2.0	28
61	Fiber optic sensor designs and luminescence-based methods for the detection of oxygen and pH measurement. Measurement: Journal of the International Measurement Confederation, 2021, 178, 109323.	2.5	28
62	Strain Measurement Using Embedded Fiber Bragg Grating Sensors Inside an Anchored Carbon Fiber Polymer Reinforcement Prestressing Rod for Structural Monitoring. IEEE Sensors Journal, 2009, 9, 1456-1461.	2.4	27
63	A high- <i>Q</i> low threshold thulium-doped silica microsphere laser in the 2 μm wavelength region designed for gas sensing applications. Laser Physics Letters, 2013, 10, 085101.	0.6	27
64	Underwater Free-Vibration Analysis of Full-Scale Marine Propeller Using a Fiber Bragg Grating-Based Sensor System. IEEE Sensors Journal, 2016, 16, 946-953.	2.4	27
65	Simultaneous measurement of temperature and strain with long period grating pairs using low resolution detection. Sensors and Actuators A: Physical, 2008, 144, 83-89.	2.0	26
66	Characteristics of Er and Er–Yb–Cr doped phosphate microsphere fibre lasers. Optics Communications, 2009, 282, 3765-3769.	1.0	26
67	Fibre Bragg Grating-Based Cascaded Acoustic Sensors for Potential Marine Structural Condition Monitoring. Journal of Lightwave Technology, 2016, 34, 4473-4478.	2.7	26
68	Design and Modeling of a High Sensitivity Fiber Bragg Grating-Based Accelerometer. IEEE Sensors Journal, 2019, 19, 5439-5445.	2.4	26
69	Highly photosensitive Sb/Er/Ge-codoped silica fiber for writing fiber Bragg gratings with strong high-temperature sustainability. Optics Letters, 2003, 28, 2025.	1.7	25
70	Thermal decay characteristics of strong fiber Bragg gratings showing high-temperature sustainability. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 430.	0.9	25
71	Compact Tm-doped fibre laser pumped by a 1600nm Er-doped fibre laser designed for environmental gas sensing. Sensors and Actuators A: Physical, 2015, 226, 11-20.	2.0	25
72	Laser Cladding-Based Metallic Embedding Technique for Fiber Optic Sensors. Journal of Lightwave Technology, 2018, 36, 1018-1025.	2.7	25

#	Article	IF	CITATIONS
73	TDLAS Detection of Propane/Butane Gas Mixture by Using Reference Gas Absorption Cells and Partial Least Square Approach. IEEE Sensors Journal, 2018, 18, 8587-8596.	2.4	25
74	Comprehensive Monitoring of Electrical Machine Parameters Using an Integrated Fiber Bragg Grating-Based Sensor System. Journal of Lightwave Technology, 2018, 36, 1046-1051.	2.7	24
75	Bragg grating tuned fiber laser system for measurement of wider range temperature and strain. Optics Communications, 2005, 244, 111-121.	1.0	23
76	Temporal thermal response of Type II-IR fiber Bragg gratings. Applied Optics, 2009, 48, 3001.	2.1	23
77	A Turn-On Fluorescence-Based Fibre Optic Sensor for the Detection of Mercury. Sensors, 2019, 19, 2142.	2.1	23
78	Determination of the Aspect-ratio Distribution of Gold Nanorods in a Colloidal Solution using UV-visible absorption spectroscopy. Scientific Reports, 2019, 9, 17469.	1.6	23
79	Simultaneous strain–temperature measurement using fluorescence from Yb-doped silica fiber. Review of Scientific Instruments, 2000, 71, 2267-2269.	0.6	22
80	Fluorescence decay characteristic of Tm-doped YAG crystal fiber for sensor applications, investigated from room temperature to 1400 °C. IEEE Sensors Journal, 2003, 3, 507-512.	2.4	22
81	Wireless Sensor Network Platform for Intrinsic Optical Fiber pH Sensors. IEEE Sensors Journal, 2014, 14, 1313-1320.	2.4	22
82	Strain-independent temperature measurement using a type-I and type-IIA optical fiber Bragg grating combination. Review of Scientific Instruments, 2004, 75, 1327-1331.	0.6	21
83	High-temperature sustainability of strong fiber Bragg gratings written into Sb–Ge-codoped photosensitive fiber: decay mechanisms involved during annealing. Optics Letters, 2004, 29, 554.	1.7	21
84	Development of low cost packaged fibre optic sensors for use in reinforced concrete structures. Measurement: Journal of the International Measurement Confederation, 2019, 135, 617-624.	2.5	21
85	Chloride ion optical sensing using a long period grating pair. Sensors and Actuators A: Physical, 2008, 141, 390-395.	2.0	20
86	Development and Longer Term In Situ Evaluation of Fiber-Optic Sensors for Monitoring of Structural Concrete. IEEE Sensors Journal, 2009, 9, 1537-1545.	2.4	20
87	Stray light correction for diode-array-based spectrometers using a monochromator. Applied Optics, 2011, 50, 5130.	2.1	20
88	Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. IEEE Sensors Journal, 2013, 13, 4459-4464.	2.4	20
89	Quasi-Distributed Fiber Optic Temperature and Humidity Sensor System for Monitoring of Grain Storage in Granaries. IEEE Sensors Journal, 2020, 20, 9226-9233.	2.4	20
90	Novel coumarin-based pH sensitive fluorescent probes for the highly alkaline pH region. Dyes and Pigments, 2020, 177, 108312.	2.0	20

#	Article	IF	CITATIONS
91	LPG-based optical fibre sensor for acoustic wave detection. Sensors and Actuators A: Physical, 2012, 173, 97-101.	2.0	19
92	Analysis of double exponential fluorescence decay behavior for optical temperature sensing. Review of Scientific Instruments, 1997, 68, 58-63.	0.6	18
93	Simultaneous measurement of strain (to 2000 /spl mu//spl epsiv/) and temperature (to 600/spl deg/C) using a combined Sb-Er-Ge-codoped fiber-fluorescence and grating-based technique. IEEE Sensors Journal, 2005, 5, 1462-1468.	2.4	18
94	Intrinsic strain and temperature characteristics of Yb-doped silica-based optical fibers. Review of Scientific Instruments, 1999, 70, 1447-1451.	0.6	17
95	Fibre optic chemical sensor systems for internal concrete condition monitoring. , 2004, 5502, 334.		17
96	<i>In Situ</i> Cross-Calibration of In-Fiber Bragg Grating and Electrical Resistance Strain Gauges for Structural Monitoring Using an Extensometer. IEEE Sensors Journal, 2009, 9, 1355-1360.	2.4	17
97	Novel Sensor Design Using Photonic Crystal Fibres for Monitoring the Onset of Corrosion in Reinforced Concrete Structures. Journal of Lightwave Technology, 2014, 32, 891-896.	2.7	17
98	Dual temperature and strain measurement with the combined fluorescence lifetime and Bragg wavelength shift approach in doped optical fiber. Applied Optics, 2002, 41, 6585.	2.1	16
99	Preliminary Development and Evaluation of Fiber-Optic Chemical Sensors. Journal of Materials in Civil Engineering, 2011, 23, 1200-1210.	1.3	16
100	Tunable Diode Laser Absorption Spectroscopy- Based Detection of Propane for Explosion Early Warning by Using a Vertical Cavity Surface Enhanced Laser Source and Principle Component Analysis Approach. IEEE Sensors Journal, 2017, 17, 4975-4982.	2.4	16
101	Fiber optic chemical sensor systems for monitoring pH changes in concrete. , 2004, , .		15
102	Fiber Optic pH Sensor Using Optimized Layer-by-Layer Coating Approach. IEEE Sensors Journal, 2014, 14, 47-54.	2.4	15
103	Underwater Pressure and Temperature Sensor Based on a Special Dual-Mode Optical Fiber. IEEE Access, 2020, 8, 146463-146471.	2.6	15
104	A Fiber Bragg Grating (FBG)-Based Sensor System for Anaerobic Biodigester Humidity Monitoring. IEEE Sensors Journal, 2021, 21, 1540-1547.	2.4	15
105	Analysis of the double exponential behavior in alexandrite for optical temperature sensing applications. Review of Scientific Instruments, 1997, 68, 3442-3446.	0.6	14
106	Characterization of an optical fiber thermometer using Tm3+:YAG crystal, based on the fluorescence lifetime approach. Sensors and Actuators A: Physical, 2003, 109, 53-59.	2.0	14
107	Bragg grating performance in Er–Sn-doped germanosilicate fiber for simultaneous measurement of wide range temperature (to 500 °C) and strain. Review of Scientific Instruments, 2003, 74, 4858-4862. –	0.6	14
108	Enhanced FBG sensor-based system performance assessment for monitoring strain along a prestressed CFRP rod in structural monitoring. Sensors and Actuators A: Physical, 2009, 151, 127-132.	2.0	14

#	Article	IF	CITATIONS
109	Energy-transfer parameters in a Tm/Yb doped single mode silica fiber. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2714.	0.9	14
110	The Microbial Habitability of Weathered Volcanic Glass Inferred from Continuous Sensing Techniques. Astrobiology, 2011, 11, 651-664.	1.5	14
111	Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Footbridge Under Extended Test Conditionss. IEEE Sensors Journal, 2013, 13, 1036-1043.	2.4	14
112	Analysis of Fiber Optic Sensor Embedded in Metals by Automatic and Manual TIG Welding. IEEE Sensors Journal, 2019, 19, 7425-7433.	2.4	14
113	Quasidistributed fluorescence-based optical fiber temperature sensor system. Review of Scientific Instruments, 1998, 69, 146-151.	0.6	13
114	Directional Force Measurement Using Specialized Single-Mode Polarization-Maintaining Fibers. Journal of Lightwave Technology, 2011, 29, 3611-3615.	2.7	13
115	Long Period Grating-based optical fibre sensor for the underwater detection of acoustic waves. Sensors and Actuators A: Physical, 2013, 201, 289-293.	2.0	13
116	Fiber Bragg Grating-Based System for 2-D Analysis of Vibrational Modes of a Steel Propeller Blade. Journal of Lightwave Technology, 2014, 32, 4593-4599.	2.7	13
117	A Novel Wireless Mobile Platform to Locate and Gather Data From Optical Fiber SensorsIntegrated Into a WSN. IEEE Sensors Journal, 2015, 15, 3615-3621.	2.4	13
118	Computational Design and Fabrication of Optical Fibre Fluorescent Chemical Probes for the Detection of Cocaine. Journal of Lightwave Technology, 2015, 33, 2572-2579.	2.7	13
119	Sensitivity enhancement of long period gratings for temperature measurement using the long period grating pair technique. Sensors and Actuators A: Physical, 2008, 141, 314-320.	2.0	12
120	Optical fibre sensors for the measurement of concrete sample properties following exposure to freeze/thaw tests. Sensors and Actuators A: Physical, 2009, 153, 166-170.	2.0	12
121	Fibre Grating-based Sensor Design for Humidity Measurement in Chemically Harsh Environment. Procedia Engineering, 2016, 168, 1317-1320.	1.2	12
122	Sensors for Harsh Environment: Radiation Resistant FBG Sensor System. Journal of Lightwave Technology, 2017, 35, 3393-3398.	2.7	12
123	High-Sensitivity "Hot-Wire―Based Gas Velocity Sensor for Safe Monitoring in Mining Applications. IEEE Sensors Journal, 2018, 18, 10192-10198.	2.4	12
124	Encapsulation of Fiber Optic Sensors in 3D Printed Packages for Use in Civil Engineering Applications: A Preliminary Study. Sensors, 2019, 19, 1689.	2.1	12
125	Ultrasensitive Refractive Index Sensor Based on Mach–Zehnder Interferometer and a 40μm Fiber. Journal of Lightwave Technology, 2021, 39, 5625-5633.	2.7	12
126	Erbium-doped intrinsic fiber sensor for cryogenic temperature measurement. Sensors and Actuators A: Physical, 1998, 71, 183-186.	2.0	11

#	Article	IF	CITATIONS
127	Studies on Temperature and Strain Sensitivities of a Few-Mode Critical Wavelength Fiber Optic Sensor. IEEE Sensors Journal, 2019, 19, 1794-1801.	2.4	11
128	Analysis of dopant concentration effects in praseodymium-based fluorescent fiber optic temperature sensors. Review of Scientific Instruments, 2000, 71, 100-103.	0.6	10
129	Investigation of the photosensitivity, temperature sustainability and fluorescence characteristics of several Er-doped photosensitive fibers. Optics Communications, 2004, 237, 301-308.	1.0	10
130	Measurement of decay time based on FFT. Optics and Laser Technology, 2004, 36, 323-326.	2.2	10
131	Stability performance of short cavity Er-doped fiber lasers. Optics Communications, 2010, 283, 1067-1070.	1.0	10
132	Temperature characterization of Long Period Gratings written in three different types of optical fibre for potential high temperature measurements. Sensors and Actuators A: Physical, 2010, 160, 29-34.	2.0	10
133	Lateral force sensing system based on different photonic crystal fibres. Sensors and Actuators A: Physical, 2014, 205, 86-91.	2.0	10
134	Fibre Bragg Grating-Based Acoustic Sensor Array for Improved Condition Monitoring of Marine Lifting Surfaces. Journal of Lightwave Technology, 2016, 34, 4336-4342.	2.7	10
135	In-Sewer Field-Evaluation of an Optical Fibre-Based Condition Monitoring System. IEEE Sensors Journal, 2020, 20, 2976-2981.	2.4	10
136	Intrinsic doped fluorescence decay-time based measurements—strain and temperature characteristics for sensor purposes. Review of Scientific Instruments, 1998, 69, 4186-4190.	0.6	9
137	Characteristics of doped optical fiber for fluorescence-based fiber optic temperature systems. Review of Scientific Instruments, 2003, 74, 5212-5218.	0.6	9
138	Photosensitive Indium-Doped Germano–Silica Fiber for Strong FBGs With High Temperature Sustainability. IEEE Photonics Technology Letters, 2004, 16, 1319-1321.	1.3	9
139	High sensitivity long-period grating-based temperature monitoring using a wide wavelength range to 2.21¼m. Optics Communications, 2006, 268, 42-45.	1.0	9
140	Analysis of the Characteristics of PVA-Coated LPG-Based Sensors to Coating Thickness and Changes in the External Refractive Index. IEEE Sensors Journal, 2013, 13, 1117-1124.	2.4	9
141	Structural parameter study of dual transducers-type ultrasonic levitation-based transportation system. Smart Materials and Structures, 2021, 30, 045009.	1.8	9
142	Extended Study of Fiber Optic-Based Humidity Sensing System Performance for Sewer Network Condition Monitoring. IEEE Sensors Journal, 2021, 21, 7665-7671.	2.4	9
143	Characterization of a fast response fiber-optic pH sensor and illustration in a biological application. Analyst, The, 2021, 146, 4811-4821.	1.7	9
144	A wide temperature tunable fibre laser using a chirped grating and a type IIA fibre Bragg grating. Measurement Science and Technology, 2004, 15, 1113-1119.	1.4	8

#	Article	IF	CITATIONS
145	Bragg gratings written in Sn–Er–Ge-codoped silica fiber: investigation of photosensitivity, thermal stability, and sensing potential. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 1503.	0.8	8
146	Furnace uniformity effects on Re–C fixed-point melting plateaux. Metrologia, 2009, 46, 33-42.	0.6	8
147	Development of multi-wavelength microsphere fibre laser system for potential sensor applications. Optics Communications, 2009, 282, 401-405.	1.0	8
148	Optical sensor for pH monitoring using a layer-by-layer deposition technique emphasizing enhanced stability and re-usability. Sensors and Actuators B: Chemical, 2014, 195, 692-701.	4.0	8
149	A Sensitive and Reliable Carbon Monoxide Monitor for Safety-Focused Applications in Coal Mine Using a 2.33-\$mu\$ m Laser Diode. IEEE Sensors Journal, 2020, 20, 171-177.	2.4	8
150	Optical fibre thermometry using ratiometric green emission of an upconverting nanoparticle-polydimethylsiloxane composite. Sensors and Actuators A: Physical, 2020, 312, 112083.	2.0	8
151	Determination of local high temperature excursion in an intrinsic doped fiber fluorescence-based sensor. Review of Scientific Instruments, 1998, 69, 2930-2934.	0.6	7
152	Frequency-domain fluorescence based fiber optic fire alarm system. Review of Scientific Instruments, 2001, 72, 2191-2196.	0.6	7
153	A Parallel Multiplexed Temperature Sensor System Using Bragg-Grating-Based Fiber Lasers. IEEE Sensors Journal, 2006, 6, 986-995.	2.4	7
154	Tm:Ho co-doped single mode optical fibre laser pumped by a 1600nm Er fibre laser. Optics Communications, 2008, 281, 2567-2571.	1.0	7
155	Theoretical Analysis of a Non-Symmetric Polarization-Maintaining Single-Mode Fiber for Sensor Applications. Journal of Lightwave Technology, 2012, 30, 362-367.	2.7	7
156	Simultaneous Measurement of Strain and Temperature Using a Single Emission Line. Journal of Lightwave Technology, 2015, 33, 2426-2431.	2.7	7
157	Use of Eutectic Fixed Points to Characterize a Spectrometer for Earth Observations. International Journal of Thermophysics, 2007, 28, 2041-2048.	1.0	6
158	Experimental Optimization in Terms of Power Stability and Output Power of Highly Erbium-Doped Fiber Lasers with Single and Hybrid Cavities. Fiber and Integrated Optics, 2010, 29, 106-120.	1.7	6
159	Generation of periodic surface structures on silica fibre surfaces using 405 nm CW diode lasers. Journal of Non-Crystalline Solids, 2013, 361, 106-110.	1.5	6
160	Structural monitoring for asset management of railway bridges. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2014, 167, 157-169.	0.3	6
161	Use of optical fibres for multi-parameter monitoring in electrical AC machines. , 2017, , .		6
162	Monitoring of the Critical Meniscus of Very Low Liquid Volumes Using an Optical Fiber Sensor. IEEE Sensors Journal, 2020, 20, 12232-12240.	2.4	6

#	Article	IF	CITATIONS
163	Optical-Fiber Sensors: Temperature and Pressure Sensors. MRS Bulletin, 2002, 27, 389-395.	1.7	5
164	Fiber laser-based temperature sensor systems using uniform wavelength-matched Bragg grating reflectors. Sensors and Actuators A: Physical, 2005, 120, 451-461.	2.0	5
165	Development of intrinsic optical fiber pH sensors for industrial applications. , 2009, , .		5
166	Optimization of a Long Period Grating Distal Probe for Temperature and Refractive Index Measurement. Procedia Engineering, 2012, 47, 718-721.	1.2	5
167	A Novel Optical Sensor Platform Designed for Wireless Sensor Networks. Journal of Physics: Conference Series, 2013, 450, 012007.	0.3	5
168	Acoustic Standing Wave Field Measurement Using a Laser Doppler Vibrometer Based on the Hankel Fourier Algorithm. IEEE Access, 2019, 7, 139013-139020.	2.6	5
169	Strain, torsion and refractive index sensors based on helical long period fibre grating inscribed in small-core fibre for structural condition monitoring. Advances in Structural Engineering, 2021, 24, 1248-1255.	1.2	5
170	Fiber-optic sensor system for heat-flux measurement. Review of Scientific Instruments, 2004, 75, 1006-1012.	0.6	4
171	Vibration-insensitive temperature sensing system based on fluorescence decay and using a digital processing approach. Measurement Science and Technology, 2006, 17, 2010-2014.	1.4	4
172	Analysis of the optical power loss arising from a fibre coupled integrating sphere used as a compact gas sensor. Sensors and Actuators A: Physical, 2010, 162, 20-23.	2.0	4
173	A fibre optic chemical sensor for the detection of cocaine. , 2010, , .		4
174	Development of gold nanorod-based localized surface plasmon resonance optical fiber biosensor. Proceedings of SPIE, 2012, , .	0.8	4
175	A pilot study: Evaluation of sensor system design for optical fibre humidity sensors subjected to aggressive air sewer environment. , 2016, , .		4
176	High Sensitivity Hot-wire based Wind Velocity Sensor using Co-doped Fiber and Fiber Bragg Grating for use in mining applications. Journal of Physics: Conference Series, 2018, 1065, 252023.	0.3	4
177	Design and comprehensive characterization of novel fiber-optic sensor systems using fast-response luminescence-based O2 probes. Measurement: Journal of the International Measurement Confederation, 2022, 189, 110670.	2.5	4
178	<title>Deconvolution of fluorescence decays and estimation errors</title> ., 1997, 2980, 90.		3
179	Intrinsic doped fibre fluorescence-lifetime based high temperature alarm sensor. Sensors and Actuators A: Physical, 1999, 76, 67-71.	2.0	3
180	Fiber thermometer based on the cross detection of the fluorescence decay of Tm:YAG crystal fiber and background radiation. , 2002, 4920, 16.		3

#	Article	IF	CITATIONS
181	Rare-earth doped optical fiber approach to an alarm system for fire and heat detection. Review of Scientific Instruments, 2003, 74, 250-255.	0.6	3
182	Transverse force sensitivity of joint photonic crystal fibres. , 2012, , .		3
183	Optical Fibre Refractive Index Sensor in a Hybrid Fibre Grating Configuration. Procedia Engineering, 2015, 120, 11-14.	1.2	3
184	Fluorescent optical fibre chemosensor for the detection of mercury. Proceedings of SPIE, 2016, , .	0.8	3
185	Surface plasmon resonance based fibre optic chemical sensor for the detection of cocaine. Proceedings of SPIE, 2016, , .	0.8	3
186	Multi-parameter monitoring of electrical machines using integrated fibre Bragg gratings. , 2017, , .		3
187	<title>Characteristics of doped fibre intrinsic optical fibre sensor probes for wide-range and high-temperature operation</title> . , 1998, , .		2
188	Fibre length-dependent fluorescence spectral characteristics in high erbium concentration fibres for the optimization of FBG-based fibre sensor systems. Sensors and Actuators A: Physical, 2007, 135, 156-161.	2.0	2
189	A generalized 2D FDTD model for photonic crystal fibers with frequency dependent media. Optical and Quantum Electronics, 2007, 39, 1133-1143.	1.5	2
190	Monitoring of Environmentally Hazardous Exhaust Emissions from Cars Using Optical Fibre Sensors. Lecture Notes in Computer Science, 2008, , 238-247.	1.0	2
191	A Disposable Optical Fiber-Based Capillary Probe for Sensing Lead Ions. IEEE Sensors Journal, 2008, 8, 1656-1662.	2.4	2
192	A novel wireless mobile platform integrated with optical fibre sensors. Proceedings of SPIE, 2014, , .	0.8	2
193	Development of a fiber-optic chemical sensor for the detection of cadmium. , 2016, , .		2
194	TDLAS Detection of propane and butane gas over the near-infrared wavelength range from 1678nm to 1686nm. Journal of Physics: Conference Series, 2018, 1065, 252006.	0.3	2
195	Fast response time fiber optical pH and oxygen sensors. , 2020, , .		2
196	Application of singular value decomposition in average temperature measurement using fluorescence decay techniques. Review of Scientific Instruments, 1998, 69, 1716-1723.	0.6	1
197	Silica-optical-fiber-based rare-earth-doped sensors. , 2001, , .		1
198	A tunable multiwavelength fiber laser source with an elliptical-core fiber Sagnac loop filter. , 2005, 5623, 910.		1

#	Article	IF	CITATIONS
199	Double-clad fibre numerical optimization with a simplex method. , 2006, 6190, 174.		1
200	A mobile wireless sensor network platform for use with optical fibre sensors. , 2013, , .		1
201	Preparation of a novel drug sensor using a molecular imprinted polymer approach. Proceedings of SPIE, 2013, , .	0.8	1
202	Optical Bragg Grating Sensors for Nuclear Environments. , 2014, , .		1
203	Simultaneous measurement of strain and temperature using a unique LPG-coupled fibre laser scheme. Proceedings of SPIE, 2014, , .	0.8	1
204	Investigation of single-mode fiber degradation by 405-nm continuous-wave laser light. Optical Engineering, 2014, 53, 122512.	0.5	1
205	Temperature-compensated optimized relative humidity and refractive index sensors using a hybrid fibre grating configuration. , 2015, , .		1
206	Characterization of a polyimide-coated humidity sensor in a hybrid fibre grating configuration. , 2015,		1
207	Optimization of the accelerated curing process of concrete using a fibre Bragg grating-based control system and microwave technology. Proceedings of SPIE, 2016, , .	0.8	1
208	Graphene oxide coated long period grating based fibre optic humidity sensor. Proceedings of SPIE, 2017, , .	0.8	1
209	High Precision Synchronous Detection Method for Multi-gas detection using a Single Laser. Journal of Physics: Conference Series, 2018, 1065, 252013.	0.3	1
210	Early warning platform and its potential for non-coal mine goaf monitoring based on an optical fiber sensing network. Journal of Physics: Conference Series, 2018, 1065, 252018.	0.3	1
211	A long-term stable monitoring system for atmospheric carbon monoxide based on 2.3 μm laser absorption. Journal of Physics: Conference Series, 2018, 1065, 252017.	0.3	1
212	Small core FBG-based temperature compensated â€~smart' contact lens for effective intraocular pressure measurement. Measurement: Sensors, 2019, 1, 100001.	1.3	1
213	Graphene oxide coated long period grating for optical sensing purposes. Journal of Physics: Conference Series, 2019, 1151, 012022.	0.3	1
214	Calibration of Fiber Grating Heavy Metal Ion Sensor Using Artificial Neural Network. , 2021, , .		1
215	Temperature-compensated fiber-optic gas flow speed sensor based on the â€~Hot-wire' principle. Optik, 2021, 241, 166118.	1.4	1
216	Guest Editorial Introduction to the JSTQE Special Issue on Photonics for Industry 4.0. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-4.	1.9	1

#	Article	IF	CITATIONS
217	Modeling and Simulation of Erbium doped Photonic Crystal Fiber. Telkomnika (Telecommunication) Tj ETQq1 1	0.784314 rgi 0.6	BT /Overloc
218	A turn-on fluorescence-based fibre optic sensor for the detection of cadmium. , 2019, , .		1
219	Coal mine low power laser methane detection and alarm instrument. , 2019, , .		1
220	Application of fiber optic sensors for vibration and ignition monitoring of a belt conveyor system. , 2019, , .		1
221	Application and research of wireless laser methane sensor in drainage pipeline monitoring. , 2019, , .		1
222	Computer-aided analysis and design of accuracy of precision instruments. , 1993, 2101, 272.		0
223	Optical fiber sensors for high-temperature measurement using fluorescence techniques. , 2000, , .		0
224	Wide range of temperature and strain measurement using Bragg-grating-based fibre laser approach. , 2004, , .		0
225	Combined fluorescence and grating-based technique for wider range strain-temperature simultaneous measurement using Sb-Er-doped fibre. , 2004, , .		0
226	Strain-imposed fiber optic laser-based system for wide range temperature measurement applications. , 2005, , .		0
227	Design and evaluation of optical fibre sensors in civil engineering applications for Structural Health Monitoring. , 2009, , .		0
228	In-situ monitoring of carbon dioxide emissions from a diesel engine using a mid-infrared optical fibre sensor. , 2011, , .		0
229	Low threshold fiber taper coupled silica microsphere laser in the 2 µm wavelength region. , 2011, , .		0
230	An optical fibre salinity sensor based on fluorescence quenching mechanism. , 2012, , .		0
231	Improvement of optical properties of pH- sensitive nanolayers coating deposited using Layer-by-Layer technique. , 2012, , .		0
232	Transverse force sensitivity of photonic crystal fibres. , 2012, , .		0
233	Optical fiber sensor systems for monitoring a variety of engineering structures. , 2013, , .		0
234	Radiation resistant optical fiber for FBG based sensing. , 2013, , .		0

#	Article	IF	CITATIONS
235	Design and synthesis of a fluorescent molecular imprinted polymer for use in an optical fibre-based cocaine sensor. , 2014, , .		Ο
236	Application of a fluorescence intensity ratio technique for the intrinsic determination of pH using an optical fiber sensor. Proceedings of SPIE, 2015, , .	0.8	0
237	A fluorescent optical fibre chemosensor for mercury detection. , 2015, , .		0
238	Development of optical fibre humidity sensors for assessing the quality of housing insulation materials. , 2016, , .		0
239	A temperature compensated fibre Bragg grating (FBG)-based sensor system for condition monitoring of electrified railway pantograph. , 2017, , .		0
240	Fabrication of a high sensitive Ag-nanoparticle substrate and its application to the detection of toxic substances. Journal of Physics: Conference Series, 2018, 1065, 252010.	0.3	0
241	Stability of Graphene Oxide encapsulated Gold Nanorods for optical sensing purposes. Journal of Physics: Conference Series, 2018, 1065, 032021.	0.3	0
242	Characteristics of few-mode fibre and its application in simultaneous strain and temperature measurement. Journal of Physics: Conference Series, 2018, 1065, 252005.	0.3	0
243	Quasi-distributed multipoint laser methane detection system and its application in cable trench safety monitoring. Journal of Physics: Conference Series, 2018, 1065, 252020.	0.3	Ο
244	Laser methane sensor and its field application in coal mine safety. Journal of Physics: Conference Series, 2018, 1065, 252022.	0.3	0
245	Determination of First Arrival Wave Type of Microseismic Signals and Approach to Wave Velocity Correction. Shock and Vibration, 2021, 2021, 1-11.	0.3	Ο
246	Characterization of a fast response fiber-optic pH sensor and measurements in a biological application. , 2021, , .		0
247	Meeting industrial needs with optical fiber sensors. , 2021, , .		Ο
248	Combined fluorescence decay time and fiber Bragg grating temperature and strain sensing. , 2001, , .		0
249	Development of a Novel Optical Fibre-Based Instrument for the On-Line Measurement of Calcium for Smart and Domestic Appliances: Preliminary Investigations. , 2006, , .		0
250	Fluorescence Fiber Optical Thermometer Based on DSP Technique. , 2006, , .		0
251	Optimization of the design of fibre optic pH sensor based on layer-by- layer coating. , 2012, , .		0
252	Enhanced Stability and Re-usability of the Optical Sensor for pH Monitoring Using a Layer-by-layer Deposition Technique. , 2015, , .		0

#	Article	IF	CITATIONS
253	A Turn-On Fluorescence Based Optical Fibre Sensor for the Detection of Zn2+. , 2018, , .		О
254	Flow measurement inside a zinc-nickel flow cell battery using FBG based sensor system. , 2019, , .		0
255	Determination of the hydrodynamic performance of marine propellers using fibre Bragg gratings. , 2019, , .		0
256	Research on VCSEL interference analysis and elimination method. , 2019, , .		0