

Kenneth Grattan

List of Publications by Year in descending order

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658
papers

10,860
citations

53660

45
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58464

82
g-index

664
all docs

664
docs citations

664
times ranked

7994
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain Sensor Based on Embedded Fiber Bragg Grating in Thermoplastic Polyurethane Using the 3D Printing Technology for Improved Sensitivity. <i>Photonic Sensors</i> , 2022, 12, 1.	2.5	13
2	Electrical performance of efficient quad-crescent-shaped Si nanowire solar cell. <i>Scientific Reports</i> , 2022, 12, 48.	1.6	8
3	A High-Precision Extensometer System for Ground Displacement Measurement Using Fiber Bragg Grating. <i>IEEE Sensors Journal</i> , 2022, 22, 8509-8521.	2.4	10
4	Temperature-independent vibration sensor based on Fabry-Pérot interferometer using a fiber Bragg grating approach. <i>Optical Engineering</i> , 2022, 61, .	0.5	2
5	Lead (Pb ²⁺) ion sensor development using optical fiber gratings and nanocomposite materials. <i>Sensors and Actuators B: Chemical</i> , 2022, 364, 131818.	4.0	12
6	Rapid Response All-Fiber Moisture Sensor. <i>IEEE Sensors Journal</i> , 2022, 22, 10594-10601.	2.4	0
7	All-optical vector magnetic field sensor based on a side-polished two-core fiber Michelson interferometer. <i>Optics Express</i> , 2022, 30, 22746.	1.7	10
8	Lithium-Ion Battery State-of-Charge Estimator Based on FBG-Based Strain Sensor and Employing Machine Learning. <i>IEEE Sensors Journal</i> , 2021, 21, 1453-1460.	2.4	35
9	A Fiber Bragg Grating (FBG)-Based Sensor System for Anaerobic Biodigester Humidity Monitoring. <i>IEEE Sensors Journal</i> , 2021, 21, 1540-1547.	2.4	15
10	Structural parameter study of dual transducers-type ultrasonic levitation-based transportation system. <i>Smart Materials and Structures</i> , 2021, 30, 045009.	1.8	9
11	3D-Printed Tilt Sensor Based on an Embedded Two-Mode Fiber Interferometer. <i>IEEE Sensors Journal</i> , 2021, 21, 7565-7571.	2.4	9
12	Determination of First Arrival Wave Type of Microseismic Signals and Approach to Wave Velocity Correction. <i>Shock and Vibration</i> , 2021, 2021, 1-11.	0.3	0
13	Extended Study of Fiber Optic-Based Humidity Sensing System Performance for Sewer Network Condition Monitoring. <i>IEEE Sensors Journal</i> , 2021, 21, 7665-7671.	2.4	9
14	Observation of split evanescent field distributions in tapered multicore fibers for multiline nanoparticle trapping and microsensing. <i>Optics Express</i> , 2021, 29, 9532.	1.7	10
15	Characterization of a fast response fiber-optic pH sensor and measurements in a biological application. , 2021, , .		0
16	Fiber optic sensor designs and luminescence-based methods for the detection of oxygen and pH measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 178, 109323.	2.5	28
17	Biaxial 3D-Printed Inclinometer Based on Fiber Bragg Grating Technology. <i>IEEE Sensors Journal</i> , 2021, 21, 18815-18822.	2.4	8
18	Nonlinear enhanced microresonator gyroscope. <i>Optica</i> , 2021, 8, 1219.	4.8	17

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19	Ultrasensitive Refractive Index Sensor Based on Mach-Zehnder Interferometer and a 40 μ m Fiber. <i>Journal of Lightwave Technology</i> , 2021, 39, 5625-5633.	2.7	12
20	Temperature-compensated fiber-optic gas flow speed sensor based on the "Hot-wire" principle. <i>Optik</i> , 2021, 241, 166118.	1.4	1
21	Novel 3D-printed biaxial tilt sensor based on fiber Bragg grating sensing approach. <i>Sensors and Actuators A: Physical</i> , 2021, 330, 112864.	2.0	22
22	Characterization of a fast response fiber-optic pH sensor and illustration in a biological application. <i>Analyst</i> , 2021, 146, 4811-4821.	1.7	9
23	Meeting industrial needs with optical fiber sensors. , 2021, , .		0
24	Modeling and characteristics of a nanostructured NiO/GeSe core-shell perovskite solar cell. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 3441.	0.9	2
25	Critical dynamics of an asymmetrically bidirectionally pumped optical microresonator. <i>Physical Review A</i> , 2021, 104, .	1.0	3
26	A Sensitive and Reliable Carbon Monoxide Monitor for Safety-Focused Applications in Coal Mine Using a 2.33- μ m Laser Diode. <i>IEEE Sensors Journal</i> , 2020, 20, 171-177.	2.4	8
27	In-Sewer Field-Evaluation of an Optical Fibre-Based Condition Monitoring System. <i>IEEE Sensors Journal</i> , 2020, 20, 2976-2981.	2.4	10
28	Measurement and determination of encoder disc surface parameters in x-z planes using a conventional optical disc reading head. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 152, 107299.	2.5	0
29	Pulse Dynamics of an All-Normal-Dispersion Ring Fiber Laser Under Four Different Pulse Regimes. <i>IEEE Access</i> , 2020, 8, 115263-115272.	2.6	2
30	Underwater Pressure and Temperature Sensor Based on a Special Dual-Mode Optical Fiber. <i>IEEE Access</i> , 2020, 8, 146463-146471.	2.6	15
31	Quasi-Distributed Fiber Optic Temperature and Humidity Sensor System for Monitoring of Grain Storage in Granaries. <i>IEEE Sensors Journal</i> , 2020, 20, 9226-9233.	2.4	20
32	Optical fibre thermometry using ratiometric green emission of an upconverting nanoparticle-polydimethylsiloxane composite. <i>Sensors and Actuators A: Physical</i> , 2020, 312, 112083.	2.0	8
33	Monitoring of the Critical Meniscus of Very Low Liquid Volumes Using an Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , 2020, 20, 12232-12240.	2.4	6
34	Novel coumarin-based pH sensitive fluorescent probes for the highly alkaline pH region. <i>Dyes and Pigments</i> , 2020, 177, 108312.	2.0	20
35	Room-Temperature Power-Stabilized Narrow-Linewidth Tunable Erbium-Doped Fiber Ring Laser Based on Cascaded Mach-Zehnder Interferometers With Different Free Spectral Range for Strain Sensing. <i>Journal of Lightwave Technology</i> , 2020, 38, 1966-1974.	2.7	30
36	Recognition of Microseismic and Blasting Signals in Mines Based on Convolutional Neural Network and Stockwell Transform. <i>IEEE Access</i> , 2020, 8, 45523-45530.	2.6	14

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37	Design and optimization of perovskite plasmonic nano-laser for operation at room temperature. Journal of Laser Applications, 2020, 32, .	0.8	3
38	Fast response time fiber optical pH and oxygen sensors. , 2020, , .		2
39	Characteristics of silicon nanowire solar cells with a crescent nanohole. Optics Express, 2020, 28, 31020.	1.7	15
40	Axial hexagonal evanescent fields in tapered multicore fiber for nanoparticles trapping and microsensing. , 2020, , .		0
41	LiFi up-downlink conversion node model generated by inline successive optical pumping. Microsystem Technologies, 2019, 25, 945-950.	1.2	9
42	Ultrafast all-optical ALU operation using a soliton control within the cascaded InGaAsP/InP microring circuits. Microsystem Technologies, 2019, 25, 431-440.	1.2	8
43	Analysis of Fiber Optic Sensor Embedded in Metals by Automatic and Manual TIG Welding. IEEE Sensors Journal, 2019, 19, 7425-7433.	2.4	14
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	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
46	A Turn-On Fluorescence-Based Fibre Optic Sensor for the Detection of Mercury. Sensors, 2019, 19, 2142.	2.1	23
47	Design and Modeling of a High Sensitivity Fiber Bragg Grating-Based Accelerometer. IEEE Sensors Journal, 2019, 19, 5439-5445.	2.4	26
48	Advances in test and measurement of the interface adhesion and bond strengths in coating-substrate systems, emphasising blister and bulk techniques. Measurement: Journal of the International Measurement Confederation, 2019, 139, 387-402.	2.5	32
49	Graphene oxide coated long period grating for optical sensing purposes. Journal of Physics: Conference Series, 2019, 1151, 012022.	0.3	1
50	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
51	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
52	Enhanced Raman Detection System Based on a Hollow-Core Fiber Probe Design. IEEE Sensors Journal, 2019, 19, 560-566.	2.4	4
53	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
54	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

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55	High sensitivity micro-fiber Mach-Zehnder interferometric temperature sensors with a high index ring layer. Optics Express, 2019, 27, 34247.	1.7	9
56	Demonstration of a microelectromechanical tunable Fabry-Pérot cavity based on graphene-bonded fiber devices. Optics Letters, 2019, 44, 1876.	1.7	4
57	Optical Fiber Sensors for Remote Condition Monitoring of Industrial Structures. , 2019, , 1815-1838.		0
58	Investigation of the viscoelastic effect on optical-fiber sensing and its solution for 3D-printed sensor packages. Applied Optics, 2019, 58, 4306.	0.9	1
59	Flow measurement inside a zinc-nickel flow cell battery using FBG based sensor system. , 2019, , .		0
60	A turn-on fluorescence-based fibre optic sensor for the detection of cadmium. , 2019, , .		1
61	Determination of the hydrodynamic performance of marine propellers using fibre Bragg gratings. , 2019, , .		0
62	Coal mine low power laser methane detection and alarm instrument. , 2019, , .		1
63	Optical fiber sensors for coal mine shaft integrity and equipment condition monitoring. , 2019, , .		0
64	Research on VCSEL interference analysis and elimination method. , 2019, , .		0
65	Application of fiber optic sensors for vibration and ignition monitoring of a belt conveyor system. , 2019, , .		1
66	Study of quasi-distributed optical fiber methane sensors based on laser absorption spectrometry. , 2019, , .		0
67	Research progress on coal mine laser methane sensor. , 2019, , .		0
68	Application and research of wireless laser methane sensor in drainage pipeline monitoring. , 2019, , .		1
69	In-situ 3D micro-sensor model using embedded plasmonic island for biosensors. Microsystem Technologies, 2018, 24, 3631-3635.	1.2	5
70	Plasmonic op-amp circuit model using the inline successive microring pumping technique. Microsystem Technologies, 2018, 24, 3689-3695.	1.2	8
71	Electron Mobility Sensor Scheme-Based on a Mach-Zehnder Interferometer Approach. IEEE Photonics Technology Letters, 2018, 30, 887-890.	1.3	2
72	Optical Fibre Sensors for Remote Condition Monitoring of Industrial Structures. , 2018, , 1-24.		0

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73	Simultaneous Measurement of Strain and Temperature With a Few-Mode Fiber-Based Sensor. Journal of Lightwave Technology, 2018, 36, 2796-2802.	2.7	60
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	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
76	Ultra-fast electro-optic switching control using a soliton pulse within a modified add-drop multiplexer. Microsystem Technologies, 2018, 24, 3777-3782.	1.2	13
77	Laser Cladding-Based Metallic Embedding Technique for Fiber Optic Sensors. Journal of Lightwave Technology, 2018, 36, 1018-1025.	2.7	25
78	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
79	Estimation of the aspect-ratio distribution in chemically synthesized gold nanorods solution using UV-visible absorption spectroscopy. Journal of Physics: Conference Series, 2018, 1065, 032023.	0.3	0
80	Enhancing the Sensitivity of SMS Fiber Sensors by the Use of High Refractive Index Coatings. Proceedings (mdpi), 2018, 2, .	0.2	0
81	High Precision Synchronous Detection Method for Multi-gas detection using a Single Laser. Journal of Physics: Conference Series, 2018, 1065, 252013.	0.3	1
82	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
83	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
84	Stability of Graphene Oxide encapsulated Gold Nanorods for optical sensing purposes. Journal of Physics: Conference Series, 2018, 1065, 032021.	0.3	0
85	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
86	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	0
87	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
88	An integrated microring circuit design for optoelectronic transformer applications. Results in Physics, 2018, 11, 706-708.	2.0	0
89	Laser methane sensor and its field application in coal mine safety. Journal of Physics: Conference Series, 2018, 1065, 252022.	0.3	0
90	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

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91	High-density WGM probes generated by a ChG ring resonator for high-density 3D imaging and applications. Microwave and Optical Technology Letters, 2018, 60, 2689-2693.	0.9	0
92	Ultrafast chaotic switching and monitoring using plasmonic add-drop multiplexer. Microwave and Optical Technology Letters, 2018, 60, 2719-2724.	0.9	0
93	Novel Kerr-Vernier effects within the on-chip Si-ChG microring circuits. Results in Physics, 2018, 11, 144-147.	2.0	0
94	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
95	High-Sensitivity "Hot-Wire"-Based Gas Velocity Sensor for Safe Monitoring in Mining Applications. IEEE Sensors Journal, 2018, 18, 10192-10198.	2.4	12
96	Mode-locked self-pumping and squeezing photons model in a nonlinear micro-ring resonator. Optical and Quantum Electronics, 2018, 50, 1.	1.5	5
97	On-chip supercontinuum generation in nanostructured Ge _{11.5} As ₂₄ Se _{64.5} chalcogenide waveguides using Panda-ring resonator. Results in Physics, 2018, 10, 138-144.	2.0	6
98	On-chip electro-optic multiplexing circuit using serial microring boxcar filters. Results in Physics, 2018, 10, 18-21.	2.0	8
99	Microring stereo sensor model using Kerr-Vernier effect for bio-cell sensor and communication. Nano Communication Networks, 2018, 17, 30-35.	1.6	20
100	High-Q and temperature stable photonic biosensor based on grating waveguides. Optical and Quantum Electronics, 2018, 50, 1.	1.5	11
101	Multifunction interferometry using the electron mobility visibility and mean free path relationship. Microscopy Research and Technique, 2018, 81, 872-877.	1.2	3
102	Nano-capacitor-like model using light trapping in plasmonic island embedded microring system. Results in Physics, 2018, 10, 727-730.	2.0	5
103	A Turn-On Fluorescence Based Optical Fibre Sensor for the Detection of Zn ²⁺ . , 2018, , .		0
104	On the Physical Origin of Strain Sensitivity in Optical Fibre Rare Earth Fluorescence Sensors. , 2018, , 231-236.		0
105	Energy efficiency of iron-boron-silicon metallic glasses in sulfuric acid solutions. Materials Research Express, 2017, 4, 035201.	0.8	0
106	Optical fibre sensing: a solution for industry. , 2017, , .		1
107	Graphene oxide coated long period grating based fibre optic humidity sensor. Proceedings of SPIE, 2017, , .	0.8	1
108	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

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109	A temperature compensated fibre Bragg grating (FBG)-based sensor system for condition monitoring of electrified railway pantograph. , 2017, , .		0
110	Suppression of subsidiary fringes in white light interferometry utilizing two-wavelength light source. Optics Communications, 2017, 403, 121-126.	1.0	0
111	Use of optical fibres for multi-parameter monitoring in electrical AC machines. , 2017, , .		6
112	Multi-parameter monitoring of electrical machines using integrated fibre Bragg gratings. , 2017, , .		3
113	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
114	Sensors for Harsh Environment: Radiation Resistant FBG Sensor System. Journal of Lightwave Technology, 2017, 35, 3393-3398.	2.7	12
115	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
116	Variable Waist-Diameter Machê“Zehnder Tapered-Fiber Interferometer as Humidity and Temperature Sensor. IEEE Sensors Journal, 2016, 16, 5987-5992.	2.4	39
117	Development of optical fibre humidity sensors for assessing the quality of housing insulation materials. , 2016, , .		0
118	Effect of titanium dioxide (TiO ₂) nanoparticle coating on the detection performance of microfiber knot resonator sensors for relative humidity measurement. Materials Express, 2016, 6, 501-508.	0.2	28
119	Fluorescent optical fibre chemosensor for the detection of mercury. Proceedings of SPIE, 2016, , .	0.8	3
120	A pilot study: Evaluation of sensor system design for optical fibre humidity sensors subjected to aggressive air sewer environment. , 2016, , .		4
121	Fibre Grating-based Sensor Design for Humidity Measurement in Chemically Harsh Environment. Procedia Engineering, 2016, 168, 1317-1320.	1.2	12
122	Development of a fiber-optic chemical sensor for the detection of cadmium. , 2016, , .		2
123	Fibre Bragg Grating-Based Cascaded Acoustic Sensors for Potential Marine Structural Condition Monitoring. Journal of Lightwave Technology, 2016, 34, 4473-4478.	2.7	26
124	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
125	Surface plasmon resonance based fibre optic chemical sensor for the detection of cocaine. Proceedings of SPIE, 2016, , .	0.8	3
126	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

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127	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
128	Investigation of the Optical Modal Properties of Al ³⁺ Doped ZnO-Coated Au Waveguide for Gas Sensing Applications Using the Finite Element Method. IEEE Sensors Journal, 2016, 16, 1176-1181.	2.4	5
129	Uncertainty evaluation of trigonometric method for vertical angle calibration of the total station instrument. Measurement: Journal of the International Measurement Confederation, 2016, 86, 276-282.	2.5	14
130	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
131	Modal analysis and experimental research into improved centering/leveling devices. Measurement: Journal of the International Measurement Confederation, 2016, 88, 9-17.	2.5	6
132	[INVITED] Developments in optical fibre sensors for industrial applications. Optics and Laser Technology, 2016, 78, 62-66.	2.2	70
133	Optical Fibre Refractive Index Sensor in a Hybrid Fibre Grating Configuration. Procedia Engineering, 2015, 120, 11-14.	1.2	3
134	The acoustic signatures of cavitation erosion on grade DH36 steel. Journal of Physics: Conference Series, 2015, 656, 012109.	0.3	1
135	Temperature-compensated optimized relative humidity and refractive index sensors using a hybrid fibre grating configuration. , 2015, , .		1
136	Simultaneous Measurement of Strain and Temperature Using a Single Emission Line. Journal of Lightwave Technology, 2015, 33, 2426-2431.	2.7	7
137	Glucose optical fibre sensor based on a luminescent molecularly imprinted polymer. , 2015, , .		0
138	A Novel Wireless Mobile Platform to Locate and Gather Data From Optical Fiber Sensors Integrated Into a WSN. IEEE Sensors Journal, 2015, 15, 3615-3621.	2.4	13
139	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
140	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
141	A suite of optical fibre sensors for structural condition monitoring. , 2015, , .		0
142	Rigorous analysis of acoustic modes in low and high index contrast silica fibers. Applied Optics, 2015, 54, 2550.	0.9	0
143	Characterization of a polyimide-coated humidity sensor in a hybrid fibre grating configuration. , 2015, , .		1
144	Identification of cavitation signatures using both optical and PZT acoustic sensors. , 2015, , .		1

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145	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
146	Vibration measurement of electrical machines using integrated fibre Bragg gratings. Proceedings of SPIE, 2015, , .	0.8	3
147	A suite of optical fibre-based chemical sensors for environmental monitoring. , 2015, , .		0
148	A fluorescent optical fibre chemosensor for mercury detection. , 2015, , .		0
149	Framework for Time Relevant Water Monitoring System. , 2015, , 3-19.		2
150	Enhanced Stability and Re-usability of the Optical Sensor for pH Monitoring Using a Layer-by-layer Deposition Technique. , 2015, , .		0
151	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
152	Theoretical aspects of the calibration of geodetic angle measurement instrumentation. Mechanika, 2014, 20, .	0.3	3
153	Structural monitoring for asset management of railway bridges. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2014, 167, 157-169.	0.3	6
154	Rigorous characterization of acoustic-optical interactions in silicon slot waveguides by full-vectorial finite element method. Optics Express, 2014, 22, 9528.	1.7	13
155	Rigorous analysis of the transverse acoustic modes in optical waveguides by exploiting their structural symmetry. Applied Optics, 2014, 53, 6797.	0.9	4
156	Simultaneous measurement of strain and temperature using a unique LPG-coupled fibre laser scheme. Proceedings of SPIE, 2014, , .	0.8	1
157	A novel wireless mobile platform integrated with optical fibre sensors. Proceedings of SPIE, 2014, , .	0.8	2
158	Fibre optic humidity sensor designed for highly alkaline environments. Proceedings of SPIE, 2014, , .	0.8	0
159	Investigation of single-mode fiber degradation by 405-nm continuous-wave laser light. Optical Engineering, 2014, 53, 122512.	0.5	1
160	Emergence of THz technologies and design and optimisation low-loss waveguides and devices. , 2014, , .		0
161	Design and synthesis of a fluorescent molecular imprinted polymer for use in an optical fibre-based cocaine sensor. , 2014, , .		0
162	Reinforced concrete structural corrosion monitoring using Hi-Bi photonic crystal fibres in a fiber loop structure. Proceedings of SPIE, 2014, , .	0.8	3

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163	Fluorescence based fibre optic pH sensor for the pH 10â€“13 range suitable for corrosion monitoring in concrete structures. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 498-507.	4.0	122
164	Lateral force sensing system based on different photonic crystal fibres. <i>Sensors and Actuators A: Physical</i> , 2014, 205, 86-91.	2.0	10
165	Optical sensor for pH monitoring using a layer-by-layer deposition technique emphasizing enhanced stability and re-usability. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 692-701.	4.0	8
166	LSPR optical fibre sensors based on hollow gold nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 37-44.	4.0	70
167	Novel Sensor Design Using Photonic Crystal Fibres for Monitoring the Onset of Corrosion in Reinforced Concrete Structures. <i>Journal of Lightwave Technology</i> , 2014, 32, 891-896.	2.7	17
168	Wireless Sensor Network Platform for Intrinsic Optical Fiber pH Sensors. <i>IEEE Sensors Journal</i> , 2014, 14, 1313-1320.	2.4	22
169	Preparation of novel optical fibre-based Cocaine sensors using a molecular imprinted polymer approach. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 35-41.	4.0	44
170	Gold nanorod-based localized surface plasmon resonance biosensors: A review. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 332-351.	4.0	604
171	Full-Vectorial Finite-Element Analysis of Acoustic Modes in Silica Waveguides. <i>IEEE Journal of Quantum Electronics</i> , 2014, 50, 1006-1013.	1.0	3
172	Fiber Optic pH Sensor Using Optimized Layer-by-Layer Coating Approach. <i>IEEE Sensors Journal</i> , 2014, 14, 47-54.	2.4	15
173	Sewerage tunnel leakage detection using a fibre optic moisture-detecting sensor system. <i>Sensors and Actuators A: Physical</i> , 2014, 220, 62-68.	2.0	41
174	Low-loss THz Waveguides and Devices. , 2014, , .		0
175	Investigation of single-mode fiber output damage by 405nm CW laser light. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
176	Multimode Interference 3 dB Splitters in Hollow Core Metallic Waveguides for Low-Loss THz Wave Transmission. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 8500606-8500606.	1.9	7
177	Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Footbridge Under Extended Test Conditionss. <i>IEEE Sensors Journal</i> , 2013, 13, 1036-1043.	2.4	14
178	Ultrabroad supercontinuum generation in tellurite equiangular spiral photonic crystal fiber. <i>Journal of Modern Optics</i> , 2013, 60, 956-962.	0.6	19
179	Optical fibre-based sensor technology for humidity and moisture measurement: Review of recent progress. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 4052-4074.	2.5	230
180	A Higher Order Lateral Mode Suppression Scheme for Terahertz Quantum Cascade Laser Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 8501106-8501106.	1.9	4

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181	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
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