

# Elfed Lewis

## List of Publications by Year in descending order

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384  
papers

4,757  
citations

136885

32  
h-index

189801

50  
g-index

388  
all docs

388  
docs citations

388  
times ranked

3928  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber Optic Sensors for Temperature Monitoring during Thermal Treatments: An Overview. <i>Sensors</i> , 2016, 16, 1144.	2.1	156
2	Optical Fibre Pressure Sensors in Medical Applications. <i>Sensors</i> , 2015, 15, 17115-17148.	2.1	149
3	Novel optical fiber SPR temperature sensor based on MMF-PCF-MMF structure and gold-PDMS film. <i>Optics Express</i> , 2018, 26, 1910.	1.7	140
4	Real-time gamma dosimetry using PMMA optical fibres for applications in the sterilization industry. <i>Measurement Science and Technology</i> , 2007, 18, 3171-3176.	1.4	90
5	A review of recent advances in optical fibre sensors for <i>in vivo</i> dosimetry during radiotherapy. <i>British Journal of Radiology</i> , 2015, 88, 20140702.	1.0	88
6	A comparative review of wireless sensor network mote technologies. , 2009, , .		85
7	A novel technique for optical fiber pH sensing based on methylene blue adsorption. <i>Journal of Lightwave Technology</i> , 1995, 13, 1407-1414.	2.7	78
8	Fiber-optic chirped FBG for distributed thermal monitoring of ex-vivo radiofrequency ablation of liver. <i>Biomedical Optics Express</i> , 2014, 5, 1799.	1.5	75
9	A review of optical fibre radiation dosimeters. <i>Sensor Review</i> , 2008, 28, 136-142.	1.0	65
10	Wireless Sensor Node hardware: A review. , 2008, , .		63
11	Feedback Stabilized Interrogation Technique for EFPI/FBG Hybrid Fiber-Optic Pressure and Temperature Sensors. <i>IEEE Sensors Journal</i> , 2012, 12, 133-138.	2.4	61
12	A Humidity Sensor Based on a Singlemode-Side Polished Multimode-â€“Singlemode Optical Fibre Structure Coated with Gelatin. <i>Journal of Lightwave Technology</i> , 2017, 35, 4087-4094.	2.7	61
13	Strain sensor based on gourd-shaped single-mode-multimode-single-mode hybrid optical fibre structure. <i>Optics Express</i> , 2017, 25, 18885.	1.7	59
14	A Curvature Sensor Based on Twisted Single-Mode-â€“Multimode-â€“Single-Mode Hybrid Optical Fiber Structure. <i>Journal of Lightwave Technology</i> , 2017, 35, 1725-1731.	2.7	57
15	Intensity-â€“modulated fiber optic sensor for health monitoring applications: a comparative review. <i>Sensor Review</i> , 2013, 33, 57-67.	1.0	56
16	Detection of carbon dioxide emissions from a diesel engine using a mid-infrared optical fibre based sensor. <i>Sensors and Actuators A: Physical</i> , 2007, 136, 104-110.	2.0	54
17	Monitoring of radiofrequency thermal ablation in liver tissue through fibre Bragg grating sensors array. <i>Electronics Letters</i> , 2014, 50, 981-983.	0.5	53
18	Underwater Depth and Temperature Sensing Based on Fiber Optic Technology for Marine and Fresh Water Applications. <i>Sensors</i> , 2017, 17, 1228.	2.1	53

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19	Real-time fibre optic radiation dosimeters for nuclear environment monitoring around thermonuclear reactors. <i>Fusion Engineering and Design</i> , 2008, 83, 50-59.	1.0	52
20	Radiation Dosimeter Using an Extrinsic Fiber Optic Sensor. <i>IEEE Sensors Journal</i> , 2014, 14, 673-685.	2.4	52
21	Selective doping of Ni <sup>2+</sup> in highly transparent glass-ceramics containing nano-spinels ZnGa <sub>2</sub> O <sub>4</sub> and Zn <sub>1+x</sub> Ga <sub>2-2x</sub> Ge <sub>x</sub> O <sub>4</sub> for broadband near-infrared fiber amplifiers. <i>Scientific Reports</i> , 2017, 7, 1783.	1.6	50
22	Simultaneous Measurement of Displacement and Temperature Based on a Balloon-Shaped Bent SMF Structure Incorporating an LPG. <i>Journal of Lightwave Technology</i> , 2018, 36, 4960-4966.	2.7	49
23	Highly sensitive strain sensor based on composite interference established within S-tapered multimode fiber structure. <i>Optics Express</i> , 2018, 26, 33982.	1.7	46
24	Sensitive detection of CO <sub>2</sub> implementing tunable thulium-doped all-fiber laser. <i>Applied Optics</i> , 2013, 52, 3957.	0.9	45
25	Combining principal component analysis with an artificial neural network to perform online quality assessment of food as it cooks in a large-scale industrial oven. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 104-112.	4.0	43
26	Optical fiber sensors-based temperature distribution measurement in <i>ex vivo</i> radiofrequency ablation with submillimeter resolution. <i>Journal of Biomedical Optics</i> , 2014, 19, 117004.	1.4	42
27	Principal component analysis and artificial neural network based approach to analysing optical fibre sensors signals. <i>Sensors and Actuators A: Physical</i> , 2007, 136, 28-38.	2.0	38
28	An optical fibre based ultra violet and visible absorption spectroscopy system for ozone concentration monitoring. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 372-378.	4.0	37
29	“All-fiber” tunable laser in the 2.14 μm region, designed for CO <sub>2</sub> detection. <i>Applied Optics</i> , 2012, 51, 7011.	0.9	37
30	Fiber-Optic EFPI Pressure Sensors for <i>In Vivo</i> Urodynamic Analysis. <i>IEEE Sensors Journal</i> , 2014, 14, 2335-2340.	2.4	37
31	Measurement of Ultralow Level Bioethanol Concentration for Production Using Evanescent Wave Based Optical Fiber Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 780-788.	2.4	37
32	Highly sensitive temperature sensor using packaged optical microfiber coupler filled with liquids. <i>Optics Express</i> , 2018, 26, 356.	1.7	37
33	Hazardous gas detection using an integrating sphere as a multipass gas absorption cell. <i>Sensors and Actuators A: Physical</i> , 2008, 141, 414-421.	2.0	35
34	Security for wireless sensor networks: A review. , 2009, , .		35
35	Plastic Optical Fibre Sensor for Spine Bending Monitoring with Power Fluctuation Compensation. <i>Sensors</i> , 2013, 13, 14466-14483.	2.1	35
36	Recent Improvement of Medical Optical Fibre Pressure and Temperature Sensors. <i>Biosensors</i> , 2015, 5, 432-449.	2.3	35

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37	Directional Bending Sensor Based on a Dual Side-Hole Fiber Mach-Zehnder Interferometer. IEEE Photonics Technology Letters, 2018, 30, 375-378.	1.3	35
38	Comparison of k-NN and neural network methods in the classification of spectral data from an optical fibre-based sensor system used for quality control in the food industry. Sensors and Actuators B: Chemical, 2005, 111-112, 354-362.	4.0	33
39	A Review of Optical Fibre Ethanol Sensors: Current State and Future Prospects. Sensors, 2022, 22, 950.	2.1	32
40	Fiber-optic combined FPI/FBG sensors for monitoring of radiofrequency thermal ablation of liver tumors: ex vivo experiments. Applied Optics, 2014, 53, 2136.	0.9	31
41	CO <sub>2</sub> monitoring and detection using an integrating sphere as a multipass absorption cell. Measurement Science and Technology, 2007, 18, 3187-3194.	1.4	30
42	Differential in vivo hydrodynamic measurement in a single thin catheter based on two optical fiber pressure sensors. Journal of Biomedical Optics, 2015, 20, 037005.	1.4	30
43	Pressure, temperature and refractive index determination of fluids using a single fibre optic point sensor. Sensors and Actuators A: Physical, 2017, 256, 84-88.	2.0	28
44	Glass-ceramic optical fiber containing Ba <sub>2</sub> TiSi <sub>2</sub> O <sub>8</sub> nanocrystals for frequency conversion of lasers. Scientific Reports, 2017, 7, 44456.	1.6	28
45	Graphene-Gold-Au@Ag NPs-PDMS Films Coated Fiber Optic for Refractive Index and Temperature Sensing. IEEE Photonics Technology Letters, 2019, 31, 1205-1208.	1.3	28
46	Adaptive filter-based interrogation of high-sensitivity fiber optic Fabry-Perot interferometry sensors. Sensors and Actuators A: Physical, 2014, 206, 144-150.	2.0	27
47	An Optical Fibre Depth (Pressure) Sensor for Remote Operated Vehicles in Underwater Applications. Sensors, 2017, 17, 406.	2.1	27
48	A High-Temperature Humidity Sensor Based on a Singlemode-Side Polished Multimode-Singlemode Fiber Structure. Journal of Lightwave Technology, 2018, 36, 2730-2736.	2.7	27
49	A high sensitivity temperature sensor based on balloon-shaped bent SMF structure with its original polymer coating. Measurement Science and Technology, 2018, 29, 085104.	1.4	27
50	In-fiber whispering-gallery mode microsphere resonator-based integrated device. Optics Letters, 2018, 43, 3961.	1.7	27
51	Novel layered 2D materials for ultrafast photonics. Nanophotonics, 2020, 9, 1743-1786.	2.9	27
52	Review of luminescent based fibre optic temperature sensors. Sensor Review, 2005, 25, 56-62.	1.0	26
53	On-board monitoring of vehicle exhaust emissions using an ultraviolet optical fibre based sensor. Journal of Optics, 2007, 9, S24-S31.	1.5	26
54	An Optical Fibre-Based Sensor for Real-Time Monitoring of Clinical Linear Accelerator Radiotherapy Delivery. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 35-42.	1.9	26

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55	Femtosecond-Laser-Based Inscription Technique for Post-Fiber-Bragg Grating Inscription in an Extrinsic Fabry-Perot Interferometer Pressure Sensor. <i>IEEE Sensors Journal</i> , 2016, 16, 3396-3402.	2.4	25
56	Compact and Low-Cost Optical Fiber Respiratory Monitoring Sensor Based on Intensity Interrogation. <i>Journal of Lightwave Technology</i> , 2017, 35, 4567-4573.	2.7	25
57	A Microfiber Knot Incorporating a Tungsten Disulfide Saturable Absorber Based Multi-Wavelength Mode-Locked Erbium-Doped Fiber Laser. <i>Journal of Lightwave Technology</i> , 2018, 36, 5633-5639.	2.7	25
58	Highly sensitive displacement sensor based on composite interference established within a balloon-shaped bent multimode fiber structure. <i>Applied Optics</i> , 2018, 57, 9662.	0.9	25
59	Optical fibre cavity for ring-down experiments with low coupling losses. <i>Measurement Science and Technology</i> , 2010, 21, 094034.	1.4	24
60	Analysis of Hardware Encryption Versus Software Encryption on Wireless Sensor Network Motes. <i>Lecture Notes in Electrical Engineering</i> , 2008, , 3-14.	0.3	24
61	A novel multi-point ultraviolet optical fibre sensor based on cladding luminescence. <i>Measurement Science and Technology</i> , 2003, 14, 1477-1483.	1.4	23
62	Efficiently securing data on a wireless sensor network. <i>Journal of Physics: Conference Series</i> , 2007, 76, 012063.	0.3	23
63	Intra-Tissue Pressure Measurement in Ex Vivo Liver Undergoing Laser Ablation with Fiber-Optic Fabry-Perot Probe. <i>Sensors</i> , 2016, 16, 544.	2.1	23
64	High sensitivity temperature sensor based on singlemode-no-core-singlemode fibre structure and alcohol. <i>Sensors and Actuators A: Physical</i> , 2018, 284, 28-34.	2.0	23
65	Dual-wavelength mode-locked erbium-doped fiber laser based on tin disulfide thin film as saturable absorber. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	23
66	Largest Enhancement of Broadband Near-Infrared Emission of Ni <sup>2+</sup> in Transparent Nanoglass Ceramics: Using Nd <sup>3+</sup> as a Sensitizer and Yb <sup>3+</sup> as an Energy-Transfer Bridge. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10021-10027.	1.5	23
67	A novel multipoint luminescent coated ultra violet fibre sensor utilising artificial neural network pattern recognition techniques. <i>Sensors and Actuators A: Physical</i> , 2004, 115, 267-272.	2.0	22
68	Gold Enhanced Hemoglobin Interaction in a Fabry-Perot Based Optical Fiber Sensor for Measurement of Blood Refractive Index. <i>Journal of Lightwave Technology</i> , 2018, 36, 1118-1124.	2.7	22
69	Motion artefact minimization from photoplethysmography based non-invasive hemoglobin sensor based on an envelope filtering algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 115, 288-298.	2.5	22
70	Temperature Sensing Performance of Microsphere Resonators. <i>Sensors</i> , 2018, 18, 2515.	2.1	22
71	Non-invasive optical real-time measurement of total hemoglobin content. <i>Procedia Engineering</i> , 2010, 5, 488-491.	1.2	21
72	Ultra-high-resolution detection of Pb <sup>2+</sup> ions using a black phosphorus functionalized microfiber coil resonator. <i>Photonics Research</i> , 2019, 7, 622.	3.4	21

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73	Interpreting complex data from a three-sensor multipoint optical fibre ethanol concentration sensor system using artificial neural network pattern recognition. Measurement Science and Technology, 2004, 15, 1560-1567.	1.4	20
74	Conception and preliminary evaluation of an optical fibre sensor for simultaneous measurement of pressure and temperature. Journal of Physics: Conference Series, 2009, 178, 012016.	0.3	20
75	Low Concentration Monitoring of Exhaust Gases Using a UV-Based Optical Sensor. IEEE Sensors Journal, 2007, 7, 685-691.	2.4	19
76	Optical Fibers and Optical Fiber Sensors Used in Radiation Monitoring. , 0, , .		19
77	Topological Engineering of Photoluminescence Properties of Bismuthâ€or Erbiumâ€Doped Phosphosilicate Glass of Arbitrary P<sub>2</sub>O<sub>5</sub> to SiO<sub>2</sub> Ratio. Advanced Optical Materials, 2018, 6, 1800024.	3.6	19
78	Miniature Fabryâ€™Perot interferometer based on a movable microsphere reflector. Optics Letters, 2020, 45, 787.	1.7	19
79	A comparison of CIE L*a*b* and spectral methods for the analysis of fading in sliced cured ham. Journal of Optics, 2007, 9, S32-S39.	1.5	18
80	Fibre optic pressure and temperature sensor for geothermal wells. , 2010, , .		18
81	Characterization of fiber radiation dosimeters with different embedded scintillator materials for radiotherapy applications. Sensors and Actuators A: Physical, 2018, 269, 188-195.	2.0	18
82	High-sensitivity salinity sensor based on optical microfiber coil resonator. Optics Express, 2018, 26, 34633.	1.7	18
83	In-fiber temperature sensor based on green up-conversion luminescence in an Er<sup>3+</sup>-Yb<sup>3+</sup>-co-doped tellurite glass microsphere. Optics Letters, 2019, 44, 3214.	1.7	18
84	Optical fibre based sensing using chromatic modulation. Optics and Laser Technology, 1987, 19, 297-303.	2.2	17
85	Deep UV based DOAS system for the monitoring of nitric oxide using ratiometric separation techniques. Sensors and Actuators B: Chemical, 2008, 134, 317-323.	4.0	17
86	A mid-infrared optical fibre sensor for the detection of carbon monoxide exhaust emissions. Sensors and Actuators A: Physical, 2008, 144, 13-17.	2.0	17
87	Dissipative soliton generation in Er-doped fibre laser using SnS<sub>2</sub> as a saturable absorber. Applied Physics Express, 2019, 12, 102008.	1.1	17
88	LED Based Sensor System for Non-Invasive Measurement of the Hemoglobin Concentration in Human Blood. IFMBE Proceedings, 2009, , 825-828.	0.2	17
89	Proximal object and hazard detection for autonomous underwater vehicle with optical fibre sensors. Robotics and Autonomous Systems, 2005, 53, 214-229.	3.0	16
90	Design of a system that uses optical-fiber sensors and neural networks to control a large-scale industrial oven by monitoring the food quality online. IEEE Sensors Journal, 2005, 5, 1407-1420.	2.4	16

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91	UV LED-based fiber coupled optical sensor for detection of ozone in the ppm and ppb range. , 2009, , .		16
92	Water-equivalent fiber radiation dosimeter with two scintillating materials. Biomedical Optics Express, 2016, 7, 4919.	1.5	16
93	An Overlap-Splicing-Based Cavity in FBC Sensor for the Measurement of Strain and Temperature. IEEE Photonics Technology Letters, 2017, 29, 235-238.	1.3	16
94	Chalcogenide glasses with embedded ZnS nanocrystals: Potential mid-infrared laser host for divalent transition metal ions. Journal of the American Ceramic Society, 2018, 101, 666-673.	1.9	16
95	NiS <sub>2</sub> as a broadband saturable absorber for ultrafast pulse lasers. Optics and Laser Technology, 2020, 132, 106492.	2.2	16
96	Simultaneous measurement of displacement and temperature based on two cascaded balloon-like bent fibre structures. Optical Fiber Technology, 2020, 58, 102277.	1.4	16
97	Investigation of a novel SMS fiber based planar multimode waveguide and its sensing performance. Optics Express, 2018, 26, 26534.	1.7	16
98	Temperature-insensitive refractometer based on an RI-modulated singlemode-multimode-singlemode fibre structure. Optics Express, 2019, 27, 13754.	1.7	16
99	Tm <sup>3+</sup> -Ho <sup>3+</sup> codoped tellurite glass microsphere laser in the 1470 nm wavelength region. Optics Letters, 2019, 44, 511.	2.7	16
100	Ammonia Sensing and a Cross Sensitivity Evaluation with Atmosphere Gases using Optical Fiber Sensor. Procedia Chemistry, 2009, 1, 959-962.	0.7	15
101	Non-invasive sensor for an in vivo hemoglobin measurement. , 2011, , .		15
102	Optical Fibre Bending Sensor With Automatic Intensity Compensation. Journal of Lightwave Technology, 2015, 33, 2492-2498.	2.7	15
103	Optical fiber plasmonic sensor for the ultrasensitive detection of copper (II) ion based on trimetallic Au@AgPt core-shell nanospheres. Sensors and Actuators B: Chemical, 2020, 321, 128480.	4.0	15
104	An optical fibre ethanol concentration sensor utilizing Fourier transform signal processing analysis and artificial neural network pattern recognition. Journal of Optics, 2003, 5, S69-S75.	1.5	14
105	Monitoring of carbon dioxide exhaust emissions using mid-infrared spectroscopy. Journal of Optics, 2007, 9, S87-S91.	1.5	14
106	Coexistence measurements and analysis of IEEE 802.15.4 with Wi-Fi and bluetooth for vehicle networks. , 2012, , .		14
107	Investigation of Temperature Dependence of Microfiber Coil Resonators. Journal of Lightwave Technology, 2018, 36, 4887-4893.	2.7	14
108	Investigation of YAG:Ce-Based Optical Fibre Sensor for Use in Ultra-Fast External Beam Radiotherapy Dosimetry. Journal of Lightwave Technology, 2019, 37, 4741-4747.	2.7	14

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109	A twelve-wavelength Thulium-doped fibre laser based on a microfibre coil resonator incorporating black phosphorus. <i>Optics Communications</i> , 2019, 437, 342-345.	1.0	14
110	Neural networks and pattern recognition techniques applied to optical fibre sensors. <i>Transactions of the Institute of Measurement and Control</i> , 2000, 22, 385-404.	1.1	14
111	Nanosecond passively Q-switched fibre laser using a NiS <sub>2</sub> based saturable absorber. <i>Optics Express</i> , 2019, 27, 19843.	1.7	14
112	Ultra-compact in-core-parallel-written FBG and Mach-Zehnder interferometer for simultaneous measurement of strain and temperature. <i>Optics Letters</i> , 2021, 46, 5595.	1.7	14
113	An optical fibre sensor for particle concentration measurement in water systems based on inter-fibre light coupling between polymer optical fibres. <i>Transactions of the Institute of Measurement and Control</i> , 2000, 22, 413-430.	1.1	13
114	Power Management in Operating Systems for Wireless Sensor Nodes. , 2007, , .		13
115	U-bend fibre optic pH sensors using layer-by-layer electrostatic self-assembly technique. <i>Journal of Physics: Conference Series</i> , 2009, 178, 012046.	0.3	13
116	A fibre optic sensor for the in situ determination of rock physical properties. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012, 55, 55-62.	2.6	13
117	Radiotherapy dosimetry based on plastic optical fibre sensors. <i>Proceedings of SPIE</i> , 2013, , .	0.8	13
118	Sensitive variables extraction, non-destructive detection and visualization of total viable count (TVC) and pH in vacuum packaged lamb using hyperspectral imaging. <i>Analytical Methods</i> , 2017, 9, 3172-3183.	1.3	13
119	Compound Glass Microsphere Resonator Devices. <i>Micromachines</i> , 2018, 9, 356.	1.4	13
120	High sensitivity, low temperature-crosstalk strain sensor based on a microsphere embedded Fabry-Perot interferometer. <i>Sensors and Actuators A: Physical</i> , 2020, 310, 112048.	2.0	13
121	An optical fibre distributed sensor based on pattern recognition. <i>Journal of Materials Processing Technology</i> , 2002, 127, 23-30.	3.1	12
122	A multipoint optical fibre sensor system for use in process water systems based on artificial neural network pattern recognition techniques. <i>Sensors and Actuators A: Physical</i> , 2004, 115, 293-302.	2.0	12
123	An Optical-Fiber Sensor for Use in Water Systems Utilizing Digital Signal Processing Techniques and Artificial Neural Network Pattern Recognition. <i>IEEE Sensors Journal</i> , 2004, 4, 21-27.	2.4	12
124	A neural network based approach for determination of optical scattering and absorption coefficients of biological tissue. <i>Journal of Physics: Conference Series</i> , 2009, 178, 012047.	0.3	12
125	Cross-sensitivity evaluation for ammonia sensing using absorption spectroscopy in the UV region. <i>Sensors and Actuators B: Chemical</i> , 2011, 154, 226-231.	4.0	12
126	2.4 GHz IEEE 802.15.4 channel interference classification algorithm running live on a sensor node. , 2012, , .		12



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127	Characterization of Scintillating X-ray Optical Fiber Sensors. <i>Sensors</i> , 2014, 14, 3445-3457.	2.1	12
128	Investigation of the self-imaging position of a singlemode-multimode-singlemode optical fiber structure. <i>Microwave and Optical Technology Letters</i> , 2017, 59, 1645-1651.	0.9	12
129	An Optical Fiber Sensor Based on La <sub>2</sub> O <sub>2</sub> S:Eu Scintillator for Detecting Ultraviolet Radiation in Real-Time. <i>Sensors</i> , 2018, 18, 3754.	2.1	12
130	Triple-wavelength lasing at 1.50 $\mu$ m, 1.84 $\mu$ m and 2.08 $\mu$ m in a Ho <sup>3+</sup> /Tm <sup>3+</sup> co-doped fluorozirconate glass microsphere. <i>Journal of Luminescence</i> , 2020, 219, 116889.	1.5	12
131	Optical interleaver based on nested multiple knot microfiber resonators. <i>Optics Letters</i> , 2019, 44, 1864.	1.7	12
132	A large core polymer optical fibre sensor for x-ray dosimetry based on luminescence occurring in the cladding. <i>Measurement Science and Technology</i> , 2004, 15, 1586-1590.	1.4	11
133	Optical fibre sensor for the measurement of ozone. <i>Journal of Physics: Conference Series</i> , 2005, 15, 213-218.	0.3	11
134	Ammonia detection in the UV region using an optical fiber sensor. , 2009, , .		11
135	High resolution led-spectroscopy for sensor application in harsh environment. , 2010, , .		11
136	A Lightweight Classification Algorithm for External Sources of Interference in IEEE 802.15.4-Based Wireless Sensor Networks Operating at the 2.4 GHz. <i>International Journal of Distributed Sensor Networks</i> , 2014, 10, 265286.	1.3	11
137	Multidisciplinary evaluation of X-ray optical fiber sensors. <i>Sensors and Actuators A: Physical</i> , 2014, 213, 79-88.	2.0	11
138	Effect of Tm <sup>3+</sup> concentration on the emission wavelength shift in Tm <sup>3+</sup> -doped silica microsphere lasers. <i>Optics Letters</i> , 2018, 43, 4325.	1.7	11
139	Non-invasive continuous online hemoglobin monitoring system. , 2010, , .		10
140	An Experimental Study of the Effects of External Physiological Parameters on the Photoplethysmography Signals in the Context of Local Blood Pressure (Hydrostatic Pressure) Tj ETQq0 0 0 rgBT /Overlock 101f 50 217		10
141	A multi-point optical fibre sensor for condition monitoring in process water systems based on pattern recognition. <i>Measurement: Journal of the International Measurement Confederation</i> , 2003, 34, 301-312.	2.5	9
142	Interrogation of multipoint optical fibre sensor signals based on artificial neural network pattern recognition techniques. <i>Sensors and Actuators A: Physical</i> , 2004, 114, 7-12.	2.0	9
143	Using a reflection-based optical fibre system and Neural Networks to evaluate the quality of food in a large-scale industrial oven. <i>Sensors and Actuators A: Physical</i> , 2004, 115, 424-433.	2.0	9
144	Hazardous gas detection with an integrating sphere in the near-infrared. <i>Journal of Physics: Conference Series</i> , 2005, 15, 250-255.	0.3	9

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145	Measuring of exhaust gas emissions using absorption spectroscopy. International Journal of Intelligent Systems Technologies and Applications, 2007, 3, 33.	0.2	9
146	Real time exhaust gas sensor with high resolution for onboard sensing of harmful components. , 2008, , .		9
147	Fabrication of a miniature all-glass fibre optic pressure and temperature sensor. Procedia Engineering, 2011, 25, 503-506.	1.2	9
148	U-bend evanescent wave plastic optical fibre sensor for minute level concentration detection of ethanol corresponding to biofuel production rate. , 2017, , .		9
149	Low cost portable 3-D printed optical fiber sensor for real-time monitoring of lower back bending. Sensors and Actuators A: Physical, 2017, 265, 193-201.	2.0	9
150	An Yb <sup>3+</sup> -Ho <sup>3+</sup> Codoped Glass Microsphere Laser in the 2.0- $\mu$ m Wavelength Regions. IEEE Photonics Technology Letters, 2018, 30, 1543-1546.	1.3	9
151	Simulation and measurement of carbon dioxide exhaust emissions using an optical-fibre-based mid-infrared point sensor. Journal of Optics, 2009, 11, 054013.	1.5	8
152	Sensor system for non-invasive optical hemoglobin determination. , 2009, , .		8
153	Conception and preliminary evaluation of an optical fibre sensor for simultaneous measurement of pressure and temperature. , 2009, , .		8
154	Optical fibre X-ray radiation dosimeter sensor for low dose applications. , 2011, , .		8
155	Highly Selective Optical Fibre Ammonia Sensor for use in Agriculture. Procedia Engineering, 2011, 25, 1113-1116.	1.2	8
156	LED based spectroscopy - A low cost solution for high resolution concentration measurements e.g. for gas monitoring applications. , 2011, , .		8
157	Comparison of models and visualization of total volatile basic nitrogen content in mutton using hyperspectral imaging and variable selection methods. Spectroscopy Letters, 2018, 51, 226-235.	0.5	8
158	YAG:Ce-Phosphor Scintillators for Optical Fiber Radiation Sensors With High Temporal Resolution. IEEE Photonics Technology Letters, 2018, 30, 1653-1656.	1.3	8
159	Directly Pumped Ho <sup>3+</sup> -Doped Microspheres Lasing at 2.0- $\mu$ m. IEEE Photonics Technology Letters, 2019, 31, 1366-1368.	1.3	8
160	Investigation on the Polarization Dependence of An Angled Polished Multimode Fibre Structure. Journal of Lightwave Technology, 2020, 38, 4520-4525.	2.7	8
161	New model for explaining the over-response phenomenon in percentage of depth dose curve measured using inorganic scintillating materials for optical fiber radiation sensors. Optics Express, 2019, 27, 23693.	1.7	8
162	A Long-Period Fiber Grating Sensor Based on a Core-Cladding Misalignment Structure. Journal of Lightwave Technology, 2022, 40, 5316-5321.	2.7	8

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163	An optical fiber sensor based on cladding photoluminescence for high power microwave plasma ultraviolet lamps used in water treatment. <i>Optical Review</i> , 2001, 8, 459-462.	1.2	7
164	Monitoring food quality using an optical fibre based sensor system—a comparison of Kohonen and back-propagation neural network classification techniques. <i>Measurement Science and Technology</i> , 2006, 17, 229-234.	1.4	7
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