

# Tong Sun

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9030028/tong-sun-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

216  
papers

5,070  
citations

32  
h-index

63  
g-index

258  
ext. papers

6,015  
ext. citations

3.1  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
216	Design and comprehensive characterization of novel fiber-optic sensor systems using fast-response luminescence-based O <sub>2</sub> probes. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2022</b> , 189, 110670	4.6	0
215	Determination of First Arrival Wave Type of Microseismic Signals and Approach to Wave Velocity Correction. <i>Shock and Vibration</i> , <b>2021</b> , 2021, 1-11	1.1	
214	Extended Study of Fiber Optic-Based Humidity Sensing System Performance for Sewer Network Condition Monitoring. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 7665-7671	4	5
213	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> , <b>2021</b> , 178, 109323	4.6	7
212	Lithium-Ion Battery State-of-Charge Estimator Based on FBG-Based Strain Sensor and Employing Machine Learning. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 1453-1460	4	11
211	A Fiber Bragg Grating (FBG)-Based Sensor System for Anaerobic Biodigester Humidity Monitoring. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 1540-1547	4	5
210	Calibration of Fiber Grating Heavy Metal Ion Sensor Using Artificial Neural Network <b>2021</b> ,		1
209	Strain, torsion and refractive index sensors based on helical long period fibre grating inscribed in small-core fibre for structural condition monitoring. <i>Advances in Structural Engineering</i> , <b>2021</b> , 24, 1248-1255	1.9	1
208	Structural parameter study of dual transducers-type ultrasonic levitation-based transportation system. <i>Smart Materials and Structures</i> , <b>2021</b> , 30, 045009	3.4	3
207	Ultrasensitive Refractive Index Sensor Based on Mach-Zehnder Interferometer and a 40 $\mu$ m Fiber. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 5625-5633	4	3
206	Temperature-compensated fiber-optic gas flow speed sensor based on the Hot-wire principle. <i>Optik</i> , <b>2021</b> , 241, 166118	2.5	
205	Guest Editorial Introduction to the JSTQE Special Issue on Photonics for Industry 4.0. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2021</b> , 27, 1-4	3.8	1
204	Characterization of a fast response fiber-optic pH sensor and illustration in a biological application. <i>Analyst, The</i> , <b>2021</b> , 146, 4811-4821	5	2
203	Quasi-Distributed Fiber Optic Temperature and Humidity Sensor System for Monitoring of Grain Storage in Granaries. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 9226-9233	4	4
202	Optical fibre thermometry using ratiometric green emission of an upconverting nanoparticle-polydimethylsiloxane composite. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 312, 112083	3.9	5
201	Monitoring of the Critical Meniscus of Very Low Liquid Volumes Using an Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 12232-12240	4	2
200	Novel coumarin-based pH sensitive fluorescent probes for the highly alkaline pH region. <i>Dyes and Pigments</i> , <b>2020</b> , 177, 108312	4.6	8

199	Multi-axis force sensors: A state-of-the-art review. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 304, 111772	3.9	26
198	Fast response time fiber optical pH and oxygen sensors <b>2020</b> , . <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 171-177	4	4
197	In-Sewer Field-Evaluation of an Optical Fibre-Based Condition Monitoring System. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 2976-2981	4	7
196	Underwater Pressure and Temperature Sensor Based on a Special Dual-Mode Optical Fiber. <i>IEEE Access</i> , <b>2020</b> , 8, 146463-146471	3.5	8
195	Optical Fibre Chemical Sensors <b>2020</b> , 239-288		
194	Encapsulation of Fiber Optic Sensors in 3D Printed Packages for Use in Civil Engineering Applications: A Preliminary Study. <i>Sensors</i> , <b>2019</b> , 19,	3.8	10
193	A Turn-On Fluorescence-Based Fibre Optic Sensor for the Detection of Mercury. <i>Sensors</i> , <b>2019</b> , 19,	3.8	15
192	Design and Modeling of a High Sensitivity Fiber Bragg Grating-Based Accelerometer. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 5439-5445	4	8
191	Graphene oxide coated long period grating for optical sensing purposes. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1151, 012022	0.3	
190	Analysis of Fiber Optic Sensor Embedded in Metals by Automatic and Manual TIG Welding. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 7425-7433	4	8
189	Small core FBG-based temperature compensated smart contact lens for effective intraocular pressure measurement. <i>Measurement: Sensors</i> , <b>2019</b> , 1, 100001	0.5	
188	. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 8720-8726	4	21
187	Determination of the Aspect-ratio Distribution of Gold Nanorods in a Colloidal Solution using UV-visible absorption spectroscopy. <i>Scientific Reports</i> , <b>2019</b> , 9, 17469	4.9	7
186	Acoustic Standing Wave Field Measurement Using a Laser Doppler Vibrometer Based on the Hankel Fourier Algorithm. <i>IEEE Access</i> , <b>2019</b> , 7, 139013-139020	3.5	3
185	. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 1794-1801	4	6
184	Development of low cost packaged fibre optic sensors for use in reinforced concrete structures. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 135, 617-624	4.6	15
183	Simultaneous Measurement of Strain and Temperature With a Few-Mode Fiber-Based Sensor. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 2796-2802	4	40
182			

181	Comprehensive Monitoring of Electrical Machine Parameters Using an Integrated Fiber Bragg Grating-Based Sensor System. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 1046-1051	4	10
180	Graphene-Oxide-Coated Long-Period Grating-Based Fiber Optic Sensor for Relative Humidity and External Refractive Index. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 1145-1151	4	41
179	Laser Cladding-Based Metallic Embedding Technique for Fiber Optic Sensors. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 1018-1025	4	18
178	Fabrication of a high sensitive Ag-nanoparticle substrate and its application to the detection of toxic substances. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 252010	0.3	
177	High Precision Synchronous Detection Method for Multi-gas detection using a Single Laser. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 252013	0.3	0
176	Early warning platform and its potential for non-coal mine goaf monitoring based on an optical fiber sensing network. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 252018	0.3	1
175	TDLAS Detection of propane and butane gas over the near-infrared wavelength range from 1678nm to 1686nm. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 252006	0.3	2
174	Stability of Graphene Oxide encapsulated Gold Nanorods for optical sensing purposes. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 032021	0.3	
173	Characteristics of few-mode fibre and its application in simultaneous strain and temperature measurement. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 252005	0.3	
172	Quasi-distributed multipoint laser methane detection system and its application in cable trench safety monitoring. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 252020	0.3	
171	A long-term stable monitoring system for atmospheric carbon monoxide based on 2.3 $\mu$ m laser absorption. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 252017	0.3	1
170	Laser methane sensor and its field application in coal mine safety. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 252022	0.3	
169	High Sensitivity Hot-wire based Wind Velocity Sensor using Co-doped Fiber and Fiber Bragg Grating for use in mining applications. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 252023	0.3	3
168	TDLAS Detection of Propane/Butane Gas Mixture by Using Reference Gas Absorption Cells and Partial Least Square Approach. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 8587-8596	4	15
167	High-Sensitivity Hot-Wire-Based Gas Velocity Sensor for Safe Monitoring in Mining Applications. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 10192-10198	4	4
166	Graphene oxide coated long period grating based fibre optic humidity sensor <b>2017</b> ,		1
165	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. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 4975-4982	4	11
164	Use of optical fibres for multi-parameter monitoring in electrical AC machines <b>2017</b> ,		3

163	Novel Negative Pressure Wave-Based Pipeline Leak Detection System Using Fiber Bragg Grating-Based Pressure Sensors. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 3366-3373	4	47
162	. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 3393-3398	4	9
161	Evaluation of the Durability and Performance of FBG-Based Sensors for Monitoring Moisture in an Aggressive Gaseous Waste Sewer Environment. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 3380-3386	4	28
160	Optical Fiber Sensors for Marine Structural Condition Monitoring <b>2017</b> , 1-9		
159	[INVITED] Developments in optical fibre sensors for industrial applications. <i>Optics and Laser Technology</i> , <b>2016</b> , 78, 62-66	4.2	53
158	. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 4473-4478	4	18
157	Fibre Bragg Grating-Based Acoustic Sensor Array for Improved Condition Monitoring of Marine Lifting Surfaces. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 4336-4342	4	6
156	Surface plasmon resonance based fibre optic chemical sensor for the detection of cocaine <b>2016</b> ,		1
155	Intrinsic Fiber Optic pH Sensor for Measurement of pH Values in the Range of 0.5-8. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 881-887	4	28
154	Underwater Free-Vibration Analysis of Full-Scale Marine Propeller Using a Fiber Bragg Grating-Based Sensor System. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 946-953	4	19
153	Fluorescent optical fibre chemosensor for the detection of mercury <b>2016</b> ,		2
152	A pilot study: Evaluation of sensor system design for optical fibre humidity sensors subjected to aggressive air sewer environment <b>2016</b> ,		3
151	Fibre Grating-based Sensor Design for Humidity Measurement in Chemically Harsh Environment. <i>Procedia Engineering</i> , <b>2016</b> , 168, 1317-1320		8
150	Compact Tm-doped fibre laser pumped by a 1600 nm Er-doped fibre laser designed for environmental gas sensing. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 226, 11-20	3.9	14
149	Characterization of a polyimide-coated humidity sensor in a hybrid fibre grating configuration <b>2015</b> ,		1
148	Optical Fibre Refractive Index Sensor in a Hybrid Fibre Grating Configuration. <i>Procedia Engineering</i> , <b>2015</b> , 120, 11-14		2
147	Simultaneous Measurement of Strain and Temperature Using a Single Emission Line. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 2426-2431	4	5
146	A Novel Wireless Mobile Platform to Locate and Gather Data From Optical Fiber Sensors Integrated Into a WSN. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 3615-3621	4	8

145	A gold nanorod-based localized surface plasmon resonance platform for the detection of environmentally toxic metal ions. <i>Analyst, The</i> , <b>2015</b> , 140, 2540-55	5	54
144	Silver@graphene oxide nanocomposite-based optical sensor platform for biomolecules. <i>RSC Advances</i> , <b>2015</b> , 5, 17809-17816	3.7	69
143	Computational Design and Fabrication of Optical Fibre Fluorescent Chemical Probes for the Detection of Cocaine. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 2572-2579	4	10
142	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> , <b>2014</b> , 195, 692-701	8.5	8
141	LSPR optical fibre sensors based on hollow gold nanostructures. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 191, 37-44	8.5	56
140	Novel Sensor Design Using Photonic Crystal Fibres for Monitoring the Onset of Corrosion in Reinforced Concrete Structures. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 891-896	4	16
139	Wireless Sensor Network Platform for Intrinsic Optical Fiber pH Sensors. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 1313-1320	4	12
138	Preparation of novel optical fibre-based Cocaine sensors using a molecular imprinted polymer approach. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 193, 35-41	8.5	38
137	Gold nanorod-based localized surface plasmon resonance biosensors: A review. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 195, 332-351	8.5	471
136	Fiber Optic pH Sensor Using Optimized Layer-by-Layer Coating Approach. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 47-54	4	11
135	Sewerage tunnel leakage detection using a fibre optic moisture-detecting sensor system. <i>Sensors and Actuators A: Physical</i> , <b>2014</b> , 220, 62-68	3.9	32
134	Fiber Bragg Grating-Based System for 2-D Analysis of Vibrational Modes of a Steel Propeller Blade. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 4593-4599	4	9
133	Structural monitoring for asset management of railway bridges. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , <b>2014</b> , 167, 157-169	0.5	4
132	Simultaneous measurement of strain and temperature using a unique LPG-coupled fibre laser scheme <b>2014</b> ,		1
131	Investigation of single-mode fiber degradation by 405-nm continuous-wave laser light. <i>Optical Engineering</i> , <b>2014</b> , 53, 122512	1.1	1
130	Fluorescence based fibre optic pH sensor for the pH 10 $\pm$ 3 range suitable for corrosion monitoring in concrete structures. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 191, 498-507	8.5	88
129	Lateral force sensing system based on different photonic crystal fibres. <i>Sensors and Actuators A: Physical</i> , <b>2014</b> , 205, 86-91	3.9	10
128	Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Footbridge Under Extended Test Conditions. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 1036-1043	4	11

127	Analysis of the Characteristics of PVA-Coated LPG-Based Sensors to Coating Thickness and Changes in the External Refractive Index. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 1117-1124	4	9
126	Fibre optic long period grating-based humidity sensor probe using a Michelson interferometric arrangement. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 178, 694-699	8.5	52
125	Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 4459-4464	4	16
124	Long Period Grating-based optical fibre sensor for the underwater detection of acoustic waves. <i>Sensors and Actuators A: Physical</i> , <b>2013</b> , 201, 289-293	3.9	7
123	. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 767-771	4	45
122	SPR-Based Optical Fiber Sensors Using GoldSilver Alloy Particles as the Active Sensing Material. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 2192-2199	4	24
121	Wavelength-based localized surface plasmon resonance optical fiber biosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 181, 611-619	8.5	104
120	Generation of periodic surface structures on silica fibre surfaces using 405 nm CW diode lasers. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 361, 106-110	3.9	6
119	Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 2555-2562	4	21
118	A high-Q low threshold thulium-doped silica microsphere laser in the 2 $\mu$ m wavelength region designed for gas sensing applications. <i>Laser Physics Letters</i> , <b>2013</b> , 10, 085101	1.5	19
117	Preparation of a novel drug sensor using a molecular imprinted polymer approach <b>2013</b> ,		1
116	A Novel Optical Sensor Platform Designed for Wireless Sensor Networks. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 450, 012007	0.3	3
115	LPG-based optical fibre sensor for acoustic wave detection. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 173, 97-101	3.9	15
114	Optimization of gold-nanoparticle-based optical fibre surface plasmon resonance (SPR)-based sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 164, 43-53	8.5	65
113	"All-fiber" tunable laser in the 2 $\mu$ m region, designed for CO <sub>2</sub> detection. <i>Applied Optics</i> , <b>2012</b> , 51, 7011-5	1.7	26
112	Building Stone Condition Monitoring Using Specially Designed Compensated Optical Fiber Humidity Sensors. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 1011-1017	4	21
111	Transverse force sensitivity of joint photonic crystal fibres <b>2012</b> ,		2
110	Effective surface modification of gold nanorods for localized surface plasmon resonance-based biosensors. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 169, 360-367	8.5	41

109	Wavelength dependent pH optical sensor using the layer-by-layer technique. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 169, 374-381	8.5	26
108	Intrinsic Fluorescence-Based Optical Fiber Sensor for Cocaine Using a Molecularly Imprinted Polymer as the Recognition Element. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 255-260	4	41
107	Study of reliability of fibre Bragg grating fibre optic strain sensors for field-test applications. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 185, 8-16	3.9	27
106	Optimization of a Long Period Grating Distal Probe for Temperature and Refractive Index Measurement. <i>Procedia Engineering</i> , <b>2012</b> , 47, 718-721		4
105	Cross-Comparison of Surface Plasmon Resonance-Based Optical Fiber Sensors With Different Coating Structures. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 2355-2361	4	47
104	Theoretical Analysis of a Non-Symmetric Polarization-Maintaining Single-Mode Fiber for Sensor Applications. <i>Journal of Lightwave Technology</i> , <b>2012</b> , 30, 362-367	4	6
103	Development of gold nanorod-based localized surface plasmon resonance optical fiber biosensor <b>2012</b> ,		3
102	Directional Force Measurement Using Specialized Single-Mode Polarization-Maintaining Fibers. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 3611-3615	4	9
101	Temperature and nonlinearity corrections for a photodiode array spectrometer used in the field. <i>Applied Optics</i> , <b>2011</b> , 50, 866-75	0.2	28
100	Stray light correction for diode-array-based spectrometers using a monochromator. <i>Applied Optics</i> , <b>2011</b> , 50, 5130-8	0.2	19
99	The microbial habitability of weathered volcanic glass inferred from continuous sensing techniques. <i>Astrobiology</i> , <b>2011</b> , 11, 651-64	3.7	10
98	Preliminary Development and Evaluation of Fiber-Optic Chemical Sensors. <i>Journal of Materials in Civil Engineering</i> , <b>2011</b> , 23, 1200-1210	3	11
97	Experimental Optimization in Terms of Power Stability and Output Power of Highly Erbium-Doped Fiber Lasers with Single and Hybrid Cavities. <i>Fiber and Integrated Optics</i> , <b>2010</b> , 29, 106-120	0.8	5
96	A fibre optic chemical sensor for the detection of cocaine <b>2010</b> ,		3
95	Ytterbium-sensitized Thulium-doped fiber laser in the near-IR with 980 nm pumping. <i>Optics Express</i> , <b>2010</b> , 18, 5068-74	3.3	25
94	Energy-transfer parameters in a Tm/Yb doped single mode silica fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2010</b> , 27, 2714	1.7	9
93	Morphology and Thermal Stability of Fiber Bragg Gratings for Sensor Applications Written in $\text{H}_2$ -Free and $\text{H}_2$ -Loaded Fibers by Femtosecond Laser. <i>IEEE Sensors Journal</i> , <b>2010</b> , 10, 1675-1681 <sup>23</sup>	4	23
92	Stability performance of short cavity Er-doped fiber lasers. <i>Optics Communications</i> , <b>2010</b> , 283, 1067-1070		10



91	Temperature characterization of Long Period Gratings written in three different types of optical fibre for potential high temperature measurements. <i>Sensors and Actuators A: Physical</i> , <b>2010</b> , 160, 29-34	3.9	8
90	Analysis of the optical power loss arising from a fibre coupled integrating sphere used as a compact gas sensor. <i>Sensors and Actuators A: Physical</i> , <b>2010</b> , 162, 20-23	3.9	4
89	Furnace uniformity effects on Re $\sqrt{2}$ fixed-point melting plateaux. <i>Metrologia</i> , <b>2009</b> , 46, 33-42	2.1	7
88	Design and in-the-field performance evaluation of compact FBG sensor system for structural health monitoring applications. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 151, 107-112	3.9	30
87	Enhanced FBG sensor-based system performance assessment for monitoring strain along a prestressed CFRP rod in structural monitoring. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 151, 127-132	3.9	13
86	Development of multi-wavelength microsphere fibre laser system for potential sensor applications. <i>Optics Communications</i> , <b>2009</b> , 282, 401-405	2	5
85	Characteristics of Er and Er $\sqrt{2}$ doped phosphate microsphere fibre lasers. <i>Optics Communications</i> , <b>2009</b> , 282, 3765-3769	2	20
84	Optical fibre sensors for the measurement of concrete sample properties following exposure to freeze/thaw tests. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 153, 166-170	3.9	10
83	Temporal thermal response of Type II-IR fiber Bragg gratings. <i>Applied Optics</i> , <b>2009</b> , 48, 3001-7	0.2	18
82	Optical Fiber Refractive Index Sensor for Chloride Ion Monitoring. <i>IEEE Sensors Journal</i> , <b>2009</b> , 9, 525-532	4	29
81	Strain Measurement Using Embedded Fiber Bragg Grating Sensors Inside an Anchored Carbon Fiber Polymer Reinforcement Prestressing Rod for Structural Monitoring. <i>IEEE Sensors Journal</i> , <b>2009</b> , 9, 1456-1461	4	23
80	In Situ Cross-Calibration of In-Fiber Bragg Grating and Electrical Resistance Strain Gauges for Structural Monitoring Using an Extensometer. <i>IEEE Sensors Journal</i> , <b>2009</b> , 9, 1355-1360	4	14
79	Development of intrinsic optical fiber pH sensors for industrial applications <b>2009</b> ,		4
78	Development and Longer Term In Situ Evaluation of Fiber-Optic Sensors for Monitoring of Structural Concrete. <i>IEEE Sensors Journal</i> , <b>2009</b> , 9, 1537-1545	4	17
77	Monitoring of Corrosion in Structural Reinforcing Bars: Performance Comparison Using In Situ Fiber-Optic and Electric Wire Strain Gauge Systems. <i>IEEE Sensors Journal</i> , <b>2009</b> , 9, 1494-1502	4	24
76	LPG-Based PVA Coated Sensor for Relative Humidity Measurement. <i>IEEE Sensors Journal</i> , <b>2008</b> , 8, 1093-1098	4	53
75	Monitoring of Environmentally Hazardous Exhaust Emissions from Cars Using Optical Fibre Sensors. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 238-247	0.9	0
74	Strain Measurement on a Rail Bridge Loaded to Failure Using a Fiber Bragg Grating-Based Distributed Sensor System. <i>IEEE Sensors Journal</i> , <b>2008</b> , 8, 2059-2065	4	32

73	A Disposable Optical Fiber-Based Capillary Probe for Sensing Lead Ions. <i>IEEE Sensors Journal</i> , <b>2008</b> , 8, 1656-1662	4	1
72	Sensitivity enhancement of long period gratings for temperature measurement using the long period grating pair technique. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 141, 314-320	3.9	11
71	Chloride ion optical sensing using a long period grating pair. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 141, 390-395	3.9	18
70	Simultaneous measurement of temperature and strain with long period grating pairs using low resolution detection. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 144, 83-89	3.9	23
69	Fibre-optic sensor technologies for humidity and moisture measurement. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 144, 280-295	3.9	326
68	Field tests of fibre Bragg grating sensors incorporated into CFRP for railway bridge strengthening condition monitoring. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 148, 68-74	3.9	26
67	Long period grating-based humidity sensor for potential structural health monitoring. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 148, 57-62	3.9	94
66	Tm:Ho co-doped single mode optical fibre laser pumped by a 1600nm Er fibre laser. <i>Optics Communications</i> , <b>2008</b> , 281, 2567-2571	2	6
65	Optimization of a long-period grating-based Mach-Zehnder interferometer for temperature measurement. <i>Optics Communications</i> , <b>2007</b> , 272, 15-21	2	27
64	Fibre length-dependent fluorescence spectral characteristics in high erbium concentration fibres for the optimization of FBG-based fibre sensor systems. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 135, 156-161	3.9	2
63	A generalized 2D FDTD model for photonic crystal fibers with frequency dependent media. <i>Optical and Quantum Electronics</i> , <b>2007</b> , 39, 1133-1143	2.4	1
62	Use of Eutectic Fixed Points to Characterize a Spectrometer for Earth Observations. <i>International Journal of Thermophysics</i> , <b>2007</b> , 28, 2041-2048	2.1	5
61	New Test Method to Obtain pH Profiles due to Carbonation of Concretes Containing Supplementary Cementitious Materials. <i>Journal of Materials in Civil Engineering</i> , <b>2007</b> , 19, 936-946	3	53
60	Thermal decay characteristics of strong fiber Bragg gratings showing high-temperature sustainability. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 430	1.7	22
59	Short cavity single frequency fiber laser for in-situ sensing applications over a wide temperature range. <i>Optics Express</i> , <b>2007</b> , 15, 363-70	3.3	32
58	Vibration-insensitive temperature sensing system based on fluorescence decay and using a digital processing approach. <i>Measurement Science and Technology</i> , <b>2006</b> , 17, 2010-2014	2	3
57	A Parallel Multiplexed Temperature Sensor System Using Bragg-Grating-Based Fiber Lasers. <i>IEEE Sensors Journal</i> , <b>2006</b> , 6, 986-995	4	6
56	Demonstration of a fibre-optic sensing technique for the measurement of moisture absorption in concrete. <i>Smart Materials and Structures</i> , <b>2006</b> , 15, N40-N45	3.4	35

55	Double-clad fibre numerical optimization with a simplex method <b>2006</b> , 6190, 174		
54	High sensitivity long-period grating-based temperature monitoring using a wide wavelength range to 2.2 $\mu$ m. <i>Optics Communications</i> , <b>2006</b> , 268, 42-45	2	9
53	Polymer-coated fiber Bragg grating for relative humidity sensing. <i>IEEE Sensors Journal</i> , <b>2005</b> , 5, 1082-1089	7.8	
52	Fiber laser-based temperature sensor systems using uniform wavelength-matched Bragg grating reflectors. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 120, 451-461	3.9	4
51	Bragg grating tuned fiber laser system for measurement of wider range temperature and strain. <i>Optics Communications</i> , <b>2005</b> , 244, 111-121	2	18
50	Obtaining progressive chloride profiles in cementitious materials. <i>Construction and Building Materials</i> , <b>2005</b> , 19, 666-673	6.7	43
49	Characterisation of a polymer-coated fibre Bragg grating sensor for relative humidity sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 110, 148-156	8.5	176
48	A tunable multiwavelength fiber laser source with an elliptical-core fiber Sagnac loop filter <b>2005</b> , 5623, 910		1
47	Simultaneous measurement of strain (to 2000 $\mu$ /m) and temperature (to 600/spl deg/C) using a combined Sb-Er-Ge-codoped fiber-fluorescence and grating-based technique. <i>IEEE Sensors Journal</i> , <b>2005</b> , 5, 1462-1468	4	16
46	A wide temperature tunable fibre laser using a chirped grating and a type IIA fibre Bragg grating. <i>Measurement Science and Technology</i> , <b>2004</b> , 15, 1113-1119	2	6
45	Fiber-optic sensor system for heat-flux measurement. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 1006-1012	1.7	3
44	Fibre optic chemical sensor systems for internal concrete condition monitoring <b>2004</b> , 5502, 334		12
43	Fiber optic chemical sensor systems for monitoring pH changes in concrete <b>2004</b> ,		9
42	Strain-independent temperature measurement using a type-I and type-IIA optical fiber Bragg grating combination. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 1327-1331	1.7	18
41	Investigation of the photosensitivity, temperature sustainability and fluorescence characteristics of several Er-doped photosensitive fibers. <i>Optics Communications</i> , <b>2004</b> , 237, 301-308	2	10
40	Non-linear temperature dependence of Bragg gratings written in different fibres, optimised for sensor applications over a wide range of temperatures. <i>Sensors and Actuators A: Physical</i> , <b>2004</b> , 112, 2113-2119	3.9	39
39	Measurement of decay time based on FFT. <i>Optics and Laser Technology</i> , <b>2004</b> , 36, 323-326	4.2	5
38	Bragg grating-based fiber-optic laser probe for temperature sensing. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 218-220	2.2	36

37	Photosensitive indium-doped germano-silica fiber for strong FBGs with high temperature sustainability. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1319-1321	2.2	8
36	Bragg gratings written in Sn-Er-Ge-codoped silica fiber: investigation of photosensitivity, thermal stability, and sensing potential. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2004</b> , 21, 1503-11	1.8	8
35	High-temperature sustainability of strong fiber Bragg gratings written into Sb-Ge-codoped photosensitive fiber: decay mechanisms involved during annealing. <i>Optics Letters</i> , <b>2004</b> , 29, 554-6	3	17
34	Characteristics of potential fibre Bragg grating sensor-based devices at elevated temperatures. <i>Measurement Science and Technology</i> , <b>2003</b> , 14, 1131-1136	2	44
33	Bragg grating performance in Er <sup>3+</sup> /Sn-doped germanosilicate fiber for simultaneous measurement of wide range temperature (to 500 °C) and strain. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 4858-4862	1.7	13
32	Characterization of an optical fiber thermometer using Tm <sup>3+</sup> :YAG crystal, based on the fluorescence lifetime approach. <i>Sensors and Actuators A: Physical</i> , <b>2003</b> , 109, 53-59	3.9	13
31	Analysis of thermal decay and prediction of operational lifetime for a type I boron-germanium codoped fiber Bragg grating. <i>Applied Optics</i> , <b>2003</b> , 42, 2188-97	1.7	25
30	Highly photosensitive Sb/Er/Ge-codoped silica fiber for writing fiber Bragg gratings with strong high-temperature sustainability. <i>Optics Letters</i> , <b>2003</b> , 28, 2025-7	3	19
29	Rare-earth doped optical fiber approach to an alarm system for fire and heat detection. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 250-255	1.7	2
28	Characteristics of doped optical fiber for fluorescence-based fiber optic temperature systems. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 5212-5218	1.7	9
27	Fluorescence decay characteristic of Tm-doped YAG crystal fiber for sensor applications, investigated from room temperature to 1400°C. <i>IEEE Sensors Journal</i> , <b>2003</b> , 3, 507-512	4	19
26	Optical-Fiber Sensors: Temperature and Pressure Sensors. <i>MRS Bulletin</i> , <b>2002</b> , 27, 389-395	3.2	2
25	Fiber thermometer based on the cross detection of the fluorescence decay of Tm:YAG crystal fiber and background radiation <b>2002</b> , 4920, 16		3
24	Dual temperature and strain measurement with the combined fluorescence lifetime and Bragg wavelength shift approach in doped optical fiber. <i>Applied Optics</i> , <b>2002</b> , 41, 6585-92	1.7	14
23	Frequency-domain fluorescence based fiber optic fire alarm system. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 2191-2196	1.7	7
22	Fiber optic sensor technology: an overview. <i>Sensors and Actuators A: Physical</i> , <b>2000</b> , 82, 40-61	3.9	544
21	Investigations on exponential lifetime measurements for fluorescence thermometry. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 2938-2943	1.7	20
20	Analysis of dopant concentration effects in praseodymium-based fluorescent fiber optic temperature sensors. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 100-103	1.7	8

19	Simultaneous strain-temperature measurement using fluorescence from Yb-doped silica fiber. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 2267-2269	1.7	16
18	Erbium/ytterbium fluorescence based fiber optic temperature sensor system. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 4017	1.7	28
17	Strain and temperature effects on erbium-doped fiber for decay-time based sensing. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 104-108	1.7	23
16	Intrinsic strain and temperature characteristics of Yb-doped silica-based optical fibers. <i>Review of Scientific Instruments</i> , <b>1999</b> , 70, 1447-1451	1.7	16
15	Intrinsic doped fibre fluorescence-lifetime based high temperature alarm sensor. <i>Sensors and Actuators A: Physical</i> , <b>1999</b> , 76, 67-71	3.9	3
14	Erbium-doped intrinsic fiber sensor for cryogenic temperature measurement. <i>Sensors and Actuators A: Physical</i> , <b>1998</b> , 71, 183-186	3.9	10
13	Ytterbium-based fluorescence decay time fiber optic temperature sensor systems. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 4179-4185	1.7	26
12	Comparison of fluorescence-based temperature sensor schemes: Theoretical analysis and experimental validation. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 4649-4654	2.5	240
11	Application of singular value decomposition in average temperature measurement using fluorescence decay techniques. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 1716-1723	1.7	1
10	Intrinsic doped fluorescence decay-time based measurements-Strain and temperature characteristics for sensor purposes. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 4186-4190	1.7	9
9	Determination of local high temperature excursion in an intrinsic doped fiber fluorescence-based sensor. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 2930-2934	1.7	4
8	Characterization of erbium-doped intrinsic optical fiber sensor probes at high temperatures. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 2924-2929	1.7	26
7	Quasidistributed fluorescence-based optical fiber temperature sensor system. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 146-151	1.7	12
6	Characteristics of doped fibre intrinsic optical fibre sensor probes for wide-range and high-temperature operation <b>1998</b> ,		2
5	Analysis of double exponential fluorescence decay behavior for optical temperature sensing. <i>Review of Scientific Instruments</i> , <b>1997</b> , 68, 58-63	1.7	14
4	Analysis of the double exponential behavior in alexandrite for optical temperature sensing applications. <i>Review of Scientific Instruments</i> , <b>1997</b> , 68, 3442-3446	1.7	10
3	Temperature dependence of the fluorescence lifetime in Pr <sup>3+</sup> :ZBLAN glass for fiber optic thermometry. <i>Review of Scientific Instruments</i> , <b>1997</b> , 68, 3447-3451	1.7	42
2	Deconvolution of fluorescence decays and estimation errors <b>1997</b> , 2980, 90		2

- 1 Fluorescence decay-time characteristics of erbium-doped optical fiber at elevated temperatures.  
*Review of Scientific Instruments*, **1997**, 68, 2764-2766 1.7 34