

Kenneth Grattan

List of Publications by Year in descending order

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658
papers

10,860
citations

53660

45
h-index

58464

82
g-index

664
all docs

664
docs citations

664
times ranked

7994
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber optic sensor technology: an overview. <i>Sensors and Actuators A: Physical</i> , 2000, 82, 40-61.	2.0	719
2	Gold nanorod-based localized surface plasmon resonance biosensors: A review. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 332-351.	4.0	604
3	Fibre-optic sensor technologies for humidity and moisture measurement. <i>Sensors and Actuators A: Physical</i> , 2008, 144, 280-295.	2.0	401
4	Comparison of fluorescence-based temperature sensor schemes: Theoretical analysis and experimental validation. <i>Journal of Applied Physics</i> , 1998, 84, 4649-4654.	1.1	289
5	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
6	Characterisation of a polymer-coated fibre Bragg grating sensor for relative humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2005, 110, 148-156.	4.0	228
7	Recent progress in optical current sensing techniques. <i>Review of Scientific Instruments</i> , 1995, 66, 3097-3111.	0.6	165
8	Self-mixing interference in a diode laser: experimental observations and theoretical analysis. <i>Applied Optics</i> , 1993, 32, 1551.	2.1	134
9	Wavelength-based localized surface plasmon resonance optical fiber biosensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 611-619.	4.0	130
10	Fluorescence based fibre optic pH sensor for the pH 10-13 range suitable for corrosion monitoring in concrete structures. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 498-507.	4.0	122
11	Long period grating-based humidity sensor for potential structural health monitoring. <i>Sensors and Actuators A: Physical</i> , 2008, 148, 57-62.	2.0	115
12	Polymer-coated fiber Bragg grating for relative humidity sensing. <i>IEEE Sensors Journal</i> , 2005, 5, 1082-1089.	2.4	114
13	Digital signal-processing techniques for electronically scanned optical-fiber white-light interferometry. <i>Applied Optics</i> , 1992, 31, 6003.	2.1	98
14	Temperature dependences of fluorescence lifetimes in Cr ³⁺ -doped insulating crystals. <i>Physical Review B</i> , 1993, 48, 7772-7778.	1.1	98
15	A model for pulsed Rayleigh wave and optimal EMAT design. <i>Sensors and Actuators A: Physical</i> , 2006, 128, 296-304.	2.0	95
16	Optimization of gold-nanoparticle-based optical fibre surface plasmon resonance (SPR)-based sensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 164, 43-53.	4.0	85
17	Design and Characterization of Low-Loss Porous-Core Photonic Crystal Fiber. <i>IEEE Photonics Journal</i> , 2012, 4, 2315-2325.	1.0	80
18	Infrared fluorescence decay-time temperature sensor. <i>Review of Scientific Instruments</i> , 1985, 56, 1784-1787.	0.6	78

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19	Fiber-optic high-temperature sensor based on the fluorescence lifetime of alexandrite. Review of Scientific Instruments, 1992, 63, 3869-3873.	0.6	78
20	Fiber Bragg gratings with enhanced thermal stability by residual stress relaxation. Optics Express, 2009, 17, 19785.	1.7	78
21	Ruby decay-time fluorescence thermometer in a fiber-optic configuration. Review of Scientific Instruments, 1988, 59, 1328-1335.	0.6	73
22	LPG-Based PVA Coated Sensor for Relative Humidity Measurement. IEEE Sensors Journal, 2008, 8, 1093-1098.	2.4	72
23	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
24	Methodology and integrity monitoring of foundation concrete piles using Bragg grating optical fibre sensors. Engineering Structures, 2007, 29, 2048-2055.	2.6	71
25	Golden spiral photonic crystal fiber: polarization and dispersion properties. Optics Letters, 2008, 33, 2716.	1.7	70
26	LSPR optical fibre sensors based on hollow gold nanostructures. Sensors and Actuators B: Chemical, 2014, 191, 37-44.	4.0	70
27	[INVITED] Developments in optical fibre sensors for industrial applications. Optics and Laser Technology, 2016, 78, 62-66.	2.2	70
28	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
29	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
30	Soft Glass Equiangular Spiral Photonic Crystal Fiber for Supercontinuum Generation. IEEE Photonics Technology Letters, 2009, 21, 1722-1724.	1.3	62
31	Analysis of Polyimide-Coated Optical Fiber Long-Period Grating-Based Relative Humidity Sensor. IEEE Sensors Journal, 2013, 13, 767-771.	2.4	62
32	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
33	Simultaneous Measurement of Strain and Temperature With a Few-Mode Fiber-Based Sensor. Journal of Lightwave Technology, 2018, 36, 2796-2802.	2.7	60
34	Characteristics of laser diodes for interferometric use. Applied Optics, 1989, 28, 3657.	2.1	58
35	Study of spectral and annealing properties of fiber Bragg gratings written in H ₂ -free and H ₂ -loaded fibers by use of femtosecond laser pulses. Optics Express, 2008, 16, 21239.	1.7	57
36	Development of a high-temperature fiber-optic thermometer probe using fluorescent decay. Review of Scientific Instruments, 1991, 62, 1210-1213.	0.6	56

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37	Obtaining progressive chloride profiles in cementitious materials. <i>Construction and Building Materials</i> , 2005, 19, 666-673.	3.2	52
38	Cross-Comparison of Surface Plasmon Resonance-Based Optical Fiber Sensors With Different Coating Structures. <i>IEEE Sensors Journal</i> , 2012, 12, 2355-2361.	2.4	51
39	Impregnation of a pH-sensitive dye into sol-gels for fibre optic chemical sensors. <i>Analyst</i> , 1995, 120, 1025-1028.	1.7	49
40	Temperature dependence of the fluorescence lifetime in Pr ³⁺ :ZBLAN glass for fiber optic thermometry. <i>Review of Scientific Instruments</i> , 1997, 68, 3447-3451.	0.6	49
41	Bragg Grating-Based Fiber-Optic Laser Probe for Temperature Sensing. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 218-220.	1.3	49
42	Intrinsic Fluorescence-Based Optical Fiber Sensor for Cocaine Using a Molecularly Imprinted Polymer as the Recognition Element. <i>IEEE Sensors Journal</i> , 2012, 12, 255-260.	2.4	49
43	Characteristics of potential fibre Bragg grating sensor-based devices at elevated temperatures. <i>Measurement Science and Technology</i> , 2003, 14, 1131-1136.	1.4	48
44	Demonstration of a fibre-optic sensing technique for the measurement of moisture absorption in concrete. <i>Smart Materials and Structures</i> , 2006, 15, N40-N45.	1.8	47
45	Effective surface modification of gold nanorods for localized surface plasmon resonance-based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 169, 360-367.	4.0	46
46	Characterization of Silver/Polystyrene (PS)-Coated Hollow Glass Waveguides at THz Frequency. <i>Journal of Lightwave Technology</i> , 2007, 25, 2456-2462.	2.7	45
47	Sensitive detection of CO ₂ implementing tunable thulium-doped all-fiber laser. <i>Applied Optics</i> , 2013, 52, 3957.	0.9	45
48	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
49	Intrinsic Fiber Optic pH Sensor for Measurement of pH Values in the Range of 0.5-6. <i>IEEE Sensors Journal</i> , 2016, 16, 881-887.	2.4	43
50	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> , 2004, 112, 211-219.	2.0	42
51	Short cavity single frequency fiber laser for in-situ sensing applications over a wide temperature range. <i>Optics Express</i> , 2007, 15, 363.	1.7	42
52	Characterization of erbium-doped intrinsic optical fiber sensor probes at high temperatures. <i>Review of Scientific Instruments</i> , 1998, 69, 2924-2929.	0.6	41
53	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
54	Fluorescence decay-time characteristics of erbium-doped optical fiber at elevated temperatures. <i>Review of Scientific Instruments</i> , 1997, 68, 2764-2766.	0.6	40

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55	Strain Measurement on a Rail Bridge Loaded to Failure Using a Fiber Bragg Grating-Based Distributed Sensor System. <i>IEEE Sensors Journal</i> , 2008, 8, 2059-2065.	2.4	40
56	Variable Waist-Diameter Mach-Zehnder Tapered-Fiber Interferometer as Humidity and Temperature Sensor. <i>IEEE Sensors Journal</i> , 2016, 16, 5987-5992.	2.4	39
57	Design and in-the-field performance evaluation of compact FBG sensor system for structural health monitoring applications. <i>Sensors and Actuators A: Physical</i> , 2009, 151, 107-112.	2.0	38
58	Temperature and nonlinearity corrections for a photodiode array spectrometer used in the field. <i>Applied Optics</i> , 2011, 50, 866.	2.1	38
59	All-fiber embedded PM-PCF vibration sensor for Structural Health Monitoring of composite. <i>Sensors and Actuators A: Physical</i> , 2011, 167, 204-212.	2.0	38
60	A novel signal processing scheme for a fluorescence based fiber-optic temperature sensor. <i>Review of Scientific Instruments</i> , 1991, 62, 1735-1742.	0.6	37
61	Prony's method for exponential lifetime estimations in fluorescence-based thermometers. <i>Review of Scientific Instruments</i> , 1996, 67, 2590-2594.	0.6	37
62	Fiber optic sensor for dual measurement of temperature and strain using a combined fluorescence lifetime decay and fiber Bragg grating technique. <i>Review of Scientific Instruments</i> , 2001, 72, 3186-3190.	0.6	37
63	Bandwidth estimation for ultra-high-speed lithium niobate modulators. <i>Applied Optics</i> , 2003, 42, 2674.	2.1	37
64	All-fiber-tunable laser in the 2.14µm region, designed for CO ₂ detection. <i>Applied Optics</i> , 2012, 51, 7011.	0.9	37
65	A miniaturised microcomputer-based neodymium 'decay-time' temperature sensor. <i>Journal of Physics E: Scientific Instruments</i> , 1987, 20, 1201-1205.	0.7	36
66	Optimization of a long-period grating-based Mach-Zehnder interferometer for temperature measurement. <i>Optics Communications</i> , 2007, 272, 15-21.	1.0	36
67	Electromagnetic acoustic transducers for in- and out-of plane ultrasonic wave detection. <i>Sensors and Actuators A: Physical</i> , 2008, 148, 51-56.	2.0	36
68	Fiber optic temperature sensor based on the cross referencing between blackbody radiation and fluorescence lifetime. <i>Review of Scientific Instruments</i> , 1992, 63, 3177-3181.	0.6	35
69	Physical analysis of teflon coated capillary waveguides. <i>Sensors and Actuators B: Chemical</i> , 1998, 51, 278-284.	4.0	35
70	Thulium-doped intrinsic fiber optic sensor for high temperature measurements (>1100°C). <i>Review of Scientific Instruments</i> , 1998, 69, 3210-3214.	0.6	35
71	Optical Fiber Refractive Index Sensor for Chloride Ion Monitoring. <i>IEEE Sensors Journal</i> , 2009, 9, 525-532.	2.4	35
72	Fiber-Optic Strain Sensor System With Temperature Compensation for Arch Bridge Condition Monitoring. <i>IEEE Sensors Journal</i> , 2012, 12, 1470-1476.	2.4	35

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73	Optical Fiber-Based Heavy Metal Detection Using the Localized Surface Plasmon Resonance Technique. IEEE Sensors Journal, 2019, 19, 8720-8726.	2.4	35
74	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
75	Thermal-stress-induced birefringence in bow-tie optical fibers. Applied Optics, 1994, 33, 5611.	2.1	34
76	Characterization of single-polarization single-mode photonic crystal fiber using full-vectorial finite element method. Applied Physics B: Lasers and Optics, 2008, 93, 223-230.	1.1	34
77	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
78	Ruby fluorescence wavelength division fiber-optic temperature sensor. Review of Scientific Instruments, 1987, 58, 1231-1234.	0.6	32
79	Design and performance evaluation of polyvinyl alcohol/polyimide coated optical fibre grating-based humidity sensors. Review of Scientific Instruments, 2013, 84, 025002.	0.6	32
80	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
81	Thermal characteristics of alexandrite fluorescence decay at high temperatures, induced by a visible laser diode emission. Journal of Applied Physics, 1993, 73, 3493-3498.	1.1	31
82	Structural health monitoring of a composite bridge using Bragg grating sensors. Part 1: Evaluation of adhesives and protection systems for the optical sensors. Engineering Structures, 2007, 29, 440-448.	2.6	31
83	Temperature dependence of the YAG:Cr ³⁺ fluorescence lifetime over the range 77 to 900 K. Physical Review B, 1995, 51, 2656-2660.	1.1	30
84	Potential for temperature sensor applications of highly neodymium-doped crystals and fiber at up to approximately 1000°C. Review of Scientific Instruments, 1997, 68, 2759-2763.	0.6	30
85	Ytterbium-based fluorescence decay time fiber optic temperature sensor systems. Review of Scientific Instruments, 1998, 69, 4179-4185.	0.6	30
86	Erbium/ytterbium fluorescence based fiber optic temperature sensor system. Review of Scientific Instruments, 2000, 71, 4017.	0.6	30
87	Strain and temperature effects on erbium-doped fiber for decay-time based sensing. Review of Scientific Instruments, 2000, 71, 104-108.	0.6	30
88	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
89	Morphology and Thermal Stability of Fiber Bragg Gratings for Sensor Applications Written in H ₂ -Free and H ₂ -Loaded Fibers by Femtosecond Laser. IEEE Sensors Journal, 2010, 10, 1675-1681.	2.4	30
90	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

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91	Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. IEEE Sensors Journal, 2013, 13, 2555-2562.	2.4	30
92	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. Journal of Lightwave Technology, 2020, 38, 1966-1974.	2.7	30
93	Phase-locked detection of fluorescence lifetime. Review of Scientific Instruments, 1993, 64, 2531-2540.	0.6	29
94	Smart-sensor approach for a fibre-optic-based residual chlorine monitor. Sensors and Actuators B: Chemical, 1997, 39, 380-385.	4.0	29
95	Monitoring of an all-composite bridge using Bragg grating sensors. Construction and Building Materials, 2007, 21, 1599-1604.	3.2	29
96	Monitoring of Corrosion in Structural Reinforcing Bars: Performance Comparison Using In Situ Fiber-Optic and Electric Wire Strain Gauge Systems. IEEE Sensors Journal, 2009, 9, 1494-1502.	2.4	29
97	Ytterbium-sensitized Thulium-doped fiber laser in the near-IR with 980 nm pumping. Optics Express, 2010, 18, 5068.	1.7	29
98	Building Stone Condition Monitoring Using Specially Designed Compensated Optical Fiber Humidity Sensors. IEEE Sensors Journal, 2012, 12, 1011-1017.	2.4	29
99	Wavelength dependent pH optical sensor using the layer-by-layer technique. Sensors and Actuators B: Chemical, 2012, 169, 374-381.	4.0	29
100	Simple fibre optic pH sensor for use in liquid titrations. Analyst, The, 1986, 111, 1095.	1.7	28
101	Bragg grating sensing instrument using a tunable Fabry-Pérot filter to detect wavelength variations. Measurement Science and Technology, 1998, 9, 599-606.	1.4	28
102	Investigations on exponential lifetime measurements for fluorescence thermometry. Review of Scientific Instruments, 2000, 71, 2938-2943.	0.6	28
103	Design optimization of polymer electrooptic modulators. Journal of Lightwave Technology, 2006, 24, 3506-3513.	2.7	28
104	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
105	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
106	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
107	Water surface measurement in a shallow channel using the transmitted image of a grating. Review of Scientific Instruments, 1990, 61, 736-739.	0.6	27
108	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

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109	A high-Q/low threshold thulium-doped silica microsphere laser in the 2 μ m wavelength region designed for gas sensing applications. <i>Laser Physics Letters</i> , 2013, 10, 085101.	0.6	27
110	Underwater Free-Vibration Analysis of Full-Scale Marine Propeller Using a Fiber Bragg Grating-Based Sensor System. <i>IEEE Sensors Journal</i> , 2016, 16, 946-953.	2.4	27
111	The Use of Fibre Optic Techniques for Temperature Measurement. <i>Measurement and Control</i> , 1987, 20, 32-39.	0.9	26
112	Water-core waveguide for pollution measurements in the deep ultraviolet. <i>Applied Optics</i> , 1998, 37, 4991.	2.1	26
113	Simultaneous measurement of temperature and strain with long period grating pairs using low resolution detection. <i>Sensors and Actuators A: Physical</i> , 2008, 144, 83-89.	2.0	26
114	Numerical analysis of bent waveguides: bending loss, transmission loss, mode coupling, and polarization coupling. <i>Applied Optics</i> , 2008, 47, 2961.	2.1	26
115	Characteristics of Er and Er-Yb-Cr doped phosphate microsphere fibre lasers. <i>Optics Communications</i> , 2009, 282, 3765-3769.	1.0	26
116	Fibre Bragg Grating-Based Cascaded Acoustic Sensors for Potential Marine Structural Condition Monitoring. <i>Journal of Lightwave Technology</i> , 2016, 34, 4473-4478.	2.7	26
117	Design and Modeling of a High Sensitivity Fiber Bragg Grating-Based Accelerometer. <i>IEEE Sensors Journal</i> , 2019, 19, 5439-5445.	2.4	26
118	Fluorescence-based lifetime measurement thermometer for use at subroom temperatures (200-300 K). <i>Review of Scientific Instruments</i> , 1995, 66, 2611-2614.	0.6	25
119	Sol-gels with fiber-optic chemical sensor potential: Effects of preparation, aging, and long-term storage. <i>Review of Scientific Instruments</i> , 1995, 66, 4034-4040.	0.6	25
120	Highly photosensitive Sb/Er/Ge-codoped silica fiber for writing fiber Bragg gratings with strong high-temperature sustainability. <i>Optics Letters</i> , 2003, 28, 2025.	1.7	25
121	Thermal decay characteristics of strong fiber Bragg gratings showing high-temperature sustainability. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 430.	0.9	25
122	Rigorous modal analysis of silicon strip nanoscale waveguides. <i>Optics Express</i> , 2010, 18, 8528.	1.7	25
123	Compact Tm-doped fibre laser pumped by a 1600nm Er-doped fibre laser designed for environmental gas sensing. <i>Sensors and Actuators A: Physical</i> , 2015, 226, 11-20.	2.0	25
124	Laser Cladding-Based Metallic Embedding Technique for Fiber Optic Sensors. <i>Journal of Lightwave Technology</i> , 2018, 36, 1018-1025.	2.7	25
125	TDLAS Detection of Propane/Butane Gas Mixture by Using Reference Gas Absorption Cells and Partial Least Square Approach. <i>IEEE Sensors Journal</i> , 2018, 18, 8587-8596.	2.4	25
126	Spectral characteristics and effects of heat treatment on intrinsic Nd-doped fiber thermometer probes. <i>Review of Scientific Instruments</i> , 1998, 69, 139-145.	0.6	24

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127	Thulium-doped fiber optic decay-time temperature sensors: Characterization of high temperature performance. <i>Review of Scientific Instruments</i> , 2000, 71, 1614-1620.	0.6	24
128	Strain-independent temperature measurement by use of a fluorescence intensity ratio technique in optical fiber. <i>Applied Optics</i> , 2000, 39, 3050.	2.1	24
129	Design of compact optical bends with a trench by use of finite-element and beam-propagation methods. <i>Applied Optics</i> , 2000, 39, 4946.	2.1	24
130	Numerical Analysis of Asymmetric Silicon Nanowire Waveguide as Compact Polarization Rotator. <i>IEEE Photonics Journal</i> , 2011, 3, 381-389.	1.0	24
131	Comprehensive Monitoring of Electrical Machine Parameters Using an Integrated Fiber Bragg Grating-Based Sensor System. <i>Journal of Lightwave Technology</i> , 2018, 36, 1046-1051.	2.7	24
132	Extrinsic optical-fiber interferometric sensor that uses multimode optical fibers: system and sensing-head design for low-noise operation. <i>Optics Letters</i> , 1992, 17, 701.	1.7	23
133	Bragg grating tuned fiber laser system for measurement of wider range temperature and strain. <i>Optics Communications</i> , 2005, 244, 111-121.	1.0	23
134	Temporal thermal response of Type II-IR fiber Bragg gratings. <i>Applied Optics</i> , 2009, 48, 3001.	2.1	23
135	A Turn-On Fluorescence-Based Fibre Optic Sensor for the Detection of Mercury. <i>Sensors</i> , 2019, 19, 2142.	2.1	23
136	Determination of the Aspect-ratio Distribution of Gold Nanorods in a Colloidal Solution using UV-visible absorption spectroscopy. <i>Scientific Reports</i> , 2019, 9, 17469.	1.6	23
137	Simultaneous strain-temperature measurement using fluorescence from Yb-doped silica fiber. <i>Review of Scientific Instruments</i> , 2000, 71, 2267-2269.	0.6	22
138	Fluorescence decay characteristic of Tm-doped YAG crystal fiber for sensor applications, investigated from room temperature to 1400 Å°C. <i>IEEE Sensors Journal</i> , 2003, 3, 507-512.	2.4	22
139	Characterization of Silica Nanowires for Optical Sensing. <i>Journal of Lightwave Technology</i> , 2009, 27, 5537-5542.	2.7	22
140	Wireless Sensor Network Platform for Intrinsic Optical Fiber pH Sensors. <i>IEEE Sensors Journal</i> , 2014, 14, 1313-1320.	2.4	22
141	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
142	Strain-independent temperature measurement using a type-I and type-IIA optical fiber Bragg grating combination. <i>Review of Scientific Instruments</i> , 2004, 75, 1327-1331.	0.6	21
143	High-temperature sustainability of strong fiber Bragg gratings written into Sb-Ge-codoped photosensitive fiber: decay mechanisms involved during annealing. <i>Optics Letters</i> , 2004, 29, 554.	1.7	21
144	Ultra low bending loss equiangular spiral photonic crystal fibers in the terahertz regime. <i>AIP Advances</i> , 2012, 2, 022140.	0.6	21

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145	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
146	VUV laser-induced photofragmentation of NH ₃ : Internal energy distribution of NH(A ³). Journal of Chemical Physics, 1984, 81, 4389-4395.	1.2	20
147	Fiber-optic absorption temperature sensor using fluorescence reference channel. Review of Scientific Instruments, 1986, 57, 1175-1178.	0.6	20
148	Chloride ion optical sensing using a long period grating pair. Sensors and Actuators A: Physical, 2008, 141, 390-395.	2.0	20
149	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
150	Stray light correction for diode-array-based spectrometers using a monochromator. Applied Optics, 2011, 50, 5130.	2.1	20
151	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
152	Microring stereo sensor model using Kerr-Vernier effect for bio-cell sensor and communication. Nano Communication Networks, 2018, 17, 30-35.	1.6	20
153	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
154	Novel coumarin-based pH sensitive fluorescent probes for the highly alkaline pH region. Dyes and Pigments, 2020, 177, 108312.	2.0	20
155	Photophysical parameters for potential vapour-phase dye-laser media. Applied Physics Berlin, 1980, 22, 307-311.	1.4	19
156	Fiber-optic Doppler velocimeter that incorporates active optical feedback from a diode laser. Optics Letters, 1992, 17, 819.	1.7	19
157	Optical fiber sensors for monitoring ingress of moisture in structural concrete. Review of Scientific Instruments, 2006, 77, 055108.	0.6	19
158	Characterization of silicon nanowire by use of full-vectorial finite element method. Applied Optics, 2010, 49, 3173.	2.1	19
159	Characterization of Plasmonic Modes in a Low-Loss Dielectric-Coated Hollow Core Rectangular Waveguide at Terahertz Frequency. IEEE Photonics Journal, 2011, 3, 1054-1066.	1.0	19
160	Comparison of Surface Plasmon Resonance and Localized Surface Plasmon Resonance-based optical fibre sensors. Journal of Physics: Conference Series, 2011, 307, 012050.	0.3	19
161	Bragg Grating Packages With Nonuniform Dimensions for Strain and Temperature Sensing. IEEE Sensors Journal, 2012, 12, 139-144.	2.4	19
162	LPG-based optical fibre sensor for acoustic wave detection. Sensors and Actuators A: Physical, 2012, 173, 97-101.	2.0	19

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163	Ultrabroad supercontinuum generation in tellurite equiangular spiral photonic crystal fiber. Journal of Modern Optics, 2013, 60, 956-962.	0.6	19
164	Analysis of double exponential fluorescence decay behavior for optical temperature sensing. Review of Scientific Instruments, 1997, 68, 58-63.	0.6	18
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