

Kenneth Grattan

List of Publications by Citations

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

519
papers

8,308
citations

41
h-index

71
g-index

664
ext. papers

9,774
ext. citations

2.7
avg, IF

6.13
L-index

#	Paper	IF	Citations
519	Fiber optic sensor technology: an overview. <i>Sensors and Actuators A: Physical</i> , 2000 , 82, 40-61	3.9	544
518	Gold nanorod-based localized surface plasmon resonance biosensors: A review. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 332-351	8.5	471
517	Fibre-optic sensor technologies for humidity and moisture measurement. <i>Sensors and Actuators A: Physical</i> , 2008 , 144, 280-295	3.9	326
516	Comparison of fluorescence-based temperature sensor schemes: Theoretical analysis and experimental validation. <i>Journal of Applied Physics</i> , 1998 , 84, 4649-4654	2.5	240
515	Characterisation of a polymer-coated fibre Bragg grating sensor for relative humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2005 , 110, 148-156	8.5	176
514	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	4.6	170
513	Recent progress in optical current sensing techniques. <i>Review of Scientific Instruments</i> , 1995 , 66, 3097-3111	11.1	130
512	Self-mixing interference in a diode laser: experimental observations and theoretical analysis. <i>Applied Optics</i> , 1993 , 32, 1551-8	1.7	113
511	Wavelength-based localized surface plasmon resonance optical fiber biosensor. <i>Sensors and Actuators B: Chemical</i> , 2013 , 181, 611-619	8.5	104
510	Long period grating-based humidity sensor for potential structural health monitoring. <i>Sensors and Actuators A: Physical</i> , 2008 , 148, 57-62	3.9	94
509	Fluorescence based fibre optic pH sensor for the pH 10 ⁻³ range suitable for corrosion monitoring in concrete structures. <i>Sensors and Actuators B: Chemical</i> , 2014 , 191, 498-507	8.5	88
508	Temperature dependences of fluorescence lifetimes in Cr ³⁺ -doped insulating crystals. <i>Physical Review B</i> , 1993 , 48, 7772-7778	3.3	88
507	Digital signal-processing techniques for electronically scanned optical-fiber white-light interferometry. <i>Applied Optics</i> , 1992 , 31, 6003-10	1.7	79
506	Polymer-coated fiber Bragg grating for relative humidity sensing. <i>IEEE Sensors Journal</i> , 2005 , 5, 1082-1089	11.9	78
505	A model for pulsed Rayleigh wave and optimal EMAT design. <i>Sensors and Actuators A: Physical</i> , 2006 , 128, 296-304	3.9	74
504	Infrared fluorescence decay-time-temperature sensor. <i>Review of Scientific Instruments</i> , 1985 , 56, 1784-1787	11.7	71
503	Fiber-optic high-temperature sensor based on the fluorescence lifetime of alexandrite. <i>Review of Scientific Instruments</i> , 1992 , 63, 3869-3873	1.7	70

502	Ruby decay-time fluorescence thermometer in a fiber-optic configuration. <i>Review of Scientific Instruments</i> , 1988 , 59, 1328-1335	1.7	67
501	Optimization of gold-nanoparticle-based optical fibre surface plasmon resonance (SPR)-based sensors. <i>Sensors and Actuators B: Chemical</i> , 2012 , 164, 43-53	8.5	65
500	Fiber Bragg gratings with enhanced thermal stability by residual stress relaxation. <i>Optics Express</i> , 2009 , 17, 19785-90	3.3	62
499	Methodology and integrity monitoring of foundation concrete piles using Bragg grating optical fibre sensors. <i>Engineering Structures</i> , 2007 , 29, 2048-2055	4.7	60
498	LSPR optical fibre sensors based on hollow gold nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2014 , 191, 37-44	8.5	56
497	[INVITED] Developments in optical fibre sensors for industrial applications. <i>Optics and Laser Technology</i> , 2016 , 78, 62-66	4.2	53
496	Design and Characterization of Low-Loss Porous-Core Photonic Crystal Fiber. <i>IEEE Photonics Journal</i> , 2012 , 4, 2315-2325	1.8	53
495	LPG-Based PVA Coated Sensor for Relative Humidity Measurement. <i>IEEE Sensors Journal</i> , 2008 , 8, 1093-1098	4.9	53
494	New Test Method to Obtain pH Profiles due to Carbonation of Concretes Containing Supplementary Cementitious Materials. <i>Journal of Materials in Civil Engineering</i> , 2007 , 19, 936-946	3	53
493	Fibre optic long period grating-based humidity sensor probe using a Michelson interferometric arrangement. <i>Sensors and Actuators B: Chemical</i> , 2013 , 178, 694-699	8.5	52
492	Golden spiral photonic crystal fiber: polarization and dispersion properties. <i>Optics Letters</i> , 2008 , 33, 2716-8	3.5	51
491	Characteristics of laser diodes for interferometric use. <i>Applied Optics</i> , 1989 , 28, 3657-61	1.7	49
490	Novel Negative Pressure Wave-Based Pipeline Leak Detection System Using Fiber Bragg Grating-Based Pressure Sensors. <i>Journal of Lightwave Technology</i> , 2017 , 35, 3366-3373	4	47
489	Cross-Comparison of Surface Plasmon Resonance-Based Optical Fiber Sensors With Different Coating Structures. <i>IEEE Sensors Journal</i> , 2012 , 12, 2355-2361	4	47
488	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. <i>Optics Express</i> , 2008 , 16, 21239-47	3.3	47
487	Development of a high-temperature fiber-optic thermometer probe using fluorescent decay. <i>Review of Scientific Instruments</i> , 1991 , 62, 1210-1213	1.7	47
486	. <i>IEEE Sensors Journal</i> , 2013 , 13, 767-771	4	45
485	. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1722-1724	2.2	44

484	Characteristics of potential fibre Bragg grating sensor-based devices at elevated temperatures. <i>Measurement Science and Technology</i> , 2003 , 14, 1131-1136	2	44
483	Obtaining progressive chloride profiles in cementitious materials. <i>Construction and Building Materials</i> , 2005 , 19, 666-673	6.7	43
482	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	1.7	42
481	Graphene-Oxide-Coated Long-Period Grating-Based Fiber Optic Sensor for Relative Humidity and External Refractive Index. <i>Journal of Lightwave Technology</i> , 2018 , 36, 1145-1151	4	41
480	Effective surface modification of gold nanorods for localized surface plasmon resonance-based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2012 , 169, 360-367	8.5	41
479	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	4	41
478	Impregnation of a pH-sensitive dye into sol-gels for fibre optic chemical sensors. <i>Analyst, The</i> , 1995 , 120, 1025-1028	5	41
477	Simultaneous Measurement of Strain and Temperature With a Few-Mode Fiber-Based Sensor. <i>Journal of Lightwave Technology</i> , 2018 , 36, 2796-2802	4	40
476	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, 2113-2119	3.9	39
475	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	8.5	38
474	Bragg grating-based fiber-optic laser probe for temperature sensing. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 218-220	2.2	36
473	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	3.4	35
472	Variable Waist-Diameter Mach-Zehnder Tapered-Fiber Interferometer as Humidity and Temperature Sensor. <i>IEEE Sensors Journal</i> , 2016 , 16, 5987-5992	4	35
471	Sensitive detection of CO ₂ implementing tunable thulium-doped all-fiber laser. <i>Applied Optics</i> , 2013 , 52, 3957-63	1.7	34
470	Fluorescence decay-time characteristics of erbium-doped optical fiber at elevated temperatures. <i>Review of Scientific Instruments</i> , 1997 , 68, 2764-2766	1.7	34
469	Prony method for exponential lifetime estimations in fluorescence-based thermometers. <i>Review of Scientific Instruments</i> , 1996 , 67, 2590-2594	1.7	34
468	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	1.7	33
467	Sewerage tunnel leakage detection using a fibre optic moisture-detecting sensor system. <i>Sensors and Actuators A: Physical</i> , 2014 , 220, 62-68	3.9	32

466	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	4	32
465	Short cavity single frequency fiber laser for in-situ sensing applications over a wide temperature range. <i>Optics Express</i> , 2007 , 15, 363-70	3.3	32
464	Physical analysis of teflon coated capillary waveguides. <i>Sensors and Actuators B: Chemical</i> , 1998 , 51, 278-284	2.8	31
463	Thulium-doped intrinsic fiber optic sensor for high temperature measurements (>1100 °C). <i>Review of Scientific Instruments</i> , 1998 , 69, 3210-3214	1.7	31
462	A novel signal processing scheme for a fluorescence based fiber-optic temperature sensor. <i>Review of Scientific Instruments</i> , 1991 , 62, 1735-1742	1.7	31
461	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	1.7	31
460	A miniaturised microcomputer-based neodymium 'decay-time' temperature sensor. <i>Journal of Physics E: Scientific Instruments</i> , 1987 , 20, 1201-1205		31
459	Design and performance evaluation of polyvinyl alcohol/polyimide coated optical fibre grating-based humidity sensors. <i>Review of Scientific Instruments</i> , 2013 , 84, 025002	1.7	30
458	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	3.9	30
457	Characterization of single-polarization single-mode photonic crystal fiber using full-vectorial finite element method. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 93, 223-230	1.9	30
456	Optical Fiber Refractive Index Sensor for Chloride Ion Monitoring. <i>IEEE Sensors Journal</i> , 2009 , 9, 525-532	4	29
455	Structural health monitoring of a composite bridge using Bragg grating sensors. Part 1: Evaluation of adhesives and protection systems for the optical sensors. <i>Engineering Structures</i> , 2007 , 29, 440-448	4.7	29
454	Electromagnetic acoustic transducers for in- and out-of plane ultrasonic wave detection. <i>Sensors and Actuators A: Physical</i> , 2008 , 148, 51-56	3.9	29
453	Intrinsic Fiber Optic pH Sensor for Measurement of pH Values in the Range of 0.5-8. <i>IEEE Sensors Journal</i> , 2016 , 16, 881-887	4	28
452	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> , 2017 , 35, 3380-3386	4	28
451	Temperature and nonlinearity corrections for a photodiode array spectrometer used in the field. <i>Applied Optics</i> , 2011 , 50, 866-75	0.2	28
450	Characterization of Silver/Polystyrene (PS)-Coated Hollow Glass Waveguides at THz Frequency. <i>Journal of Lightwave Technology</i> , 2007 , 25, 2456-2462	4	28
449	Bandwidth estimation for ultra-high-speed lithium niobate modulators. <i>Applied Optics</i> , 2003 , 42, 2674-2677	2.7	28

448	Erbium/ytterbium fluorescence based fiber optic temperature sensor system. <i>Review of Scientific Instruments</i> , 2000 , 71, 4017	1.7	28
447	Temperature dependence of the YAG:Cr ³⁺ fluorescence lifetime over the range 77 to 900 K. <i>Physical Review B</i> , 1995 , 51, 2656-2660	3.3	28
446	Study of reliability of fibre Bragg grating fibre optic strain sensors for field-test applications. <i>Sensors and Actuators A: Physical</i> , 2012 , 185, 8-16	3.9	27
445	Potential for temperature sensor applications of highly neodymium-doped crystals and fiber at up to approximately 1000 °C. <i>Review of Scientific Instruments</i> , 1997 , 68, 2759-2763	1.7	27
444	Optimization of a long-period grating-based Mach-Zehnder interferometer for temperature measurement. <i>Optics Communications</i> , 2007 , 272, 15-21	2	27
443	Thermal characteristics of alexandrite fluorescence decay at high temperatures, induced by a visible laser diode emission. <i>Journal of Applied Physics</i> , 1993 , 73, 3493-3498	2.5	27
442	Ruby fluorescence wavelength division fiber-optic temperature sensor. <i>Review of Scientific Instruments</i> , 1987 , 58, 1231-1234	1.7	27
441	"All-fiber" tunable laser in the 2 μ m region, designed for CO ₂ detection. <i>Applied Optics</i> , 2012 , 51, 7011-5	1.7	26
440	Wavelength dependent pH optical sensor using the layer-by-layer technique. <i>Sensors and Actuators B: Chemical</i> , 2012 , 169, 374-381	8.5	26
439	Field tests of fibre Bragg grating sensors incorporated into CFRP for railway bridge strengthening condition monitoring. <i>Sensors and Actuators A: Physical</i> , 2008 , 148, 68-74	3.9	26
438	Ytterbium-based fluorescence decay time fiber optic temperature sensor systems. <i>Review of Scientific Instruments</i> , 1998 , 69, 4179-4185	1.7	26
437	Characterization of erbium-doped intrinsic optical fiber sensor probes at high temperatures. <i>Review of Scientific Instruments</i> , 1998 , 69, 2924-2929	1.7	26
436	Fiber-Optic Strain Sensor System With Temperature Compensation for Arch Bridge Condition Monitoring. <i>IEEE Sensors Journal</i> , 2012 , 12, 1470-1476	4	25
435	Ytterbium-sensitized Thulium-doped fiber laser in the near-IR with 980 nm pumping. <i>Optics Express</i> , 2010 , 18, 5068-74	3.3	25
434	All-fiber embedded PM-PCF vibration sensor for Structural Health Monitoring of composite. <i>Sensors and Actuators A: Physical</i> , 2011 , 167, 204-212	3.9	25
433	Analysis of thermal decay and prediction of operational lifetime for a type I boron-germanium codoped fiber Bragg grating. <i>Applied Optics</i> , 2003 , 42, 2188-97	1.7	25
432	Thermal-stress-induced birefringence in bow-tie optical fibers. <i>Applied Optics</i> , 1994 , 33, 5611-6	1.7	25
431	Simple fibre optic pH sensor for use in liquid titrations. <i>Analyst, The</i> , 1986 , 111, 1095	5	25

430	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> , 2009 , 9, 1494-1502	4	24
429	Morphology and Thermal Stability of Fiber Bragg Gratings for Sensor Applications Written in H_2 -Free and H_2 -Loaded Fibers by Femtosecond Laser. <i>IEEE Sensors Journal</i> , 2010 , 10, 1675-1681	4	23
428	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> , 2009 , 9, 1456-1461	4	23
427	Smart-sensor approach for a fibre-optic-based residual chlorine monitor. <i>Sensors and Actuators B: Chemical</i> , 1997 , 39, 380-385	8.5	23
426	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	3.9	23
425	Strain and temperature effects on erbium-doped fiber for decay-time based sensing. <i>Review of Scientific Instruments</i> , 2000 , 71, 104-108	1.7	23
424	Bragg grating sensing instrument using a tunable Fabry-Pérot filter to detect wavelength variations. <i>Measurement Science and Technology</i> , 1998 , 9, 599-606	2	23
423	Numerical analysis of bent waveguides: bending loss, transmission loss, mode coupling, and polarization coupling. <i>Applied Optics</i> , 2008 , 47, 2961-70	1.7	22
422	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	1.7	22
421	Strain-independent temperature measurement by use of a fluorescence intensity ratio technique in optical fiber. <i>Applied Optics</i> , 2000 , 39, 3050-2	1.7	22
420	Water-core waveguide for pollution measurements in the deep ultraviolet. <i>Applied Optics</i> , 1998 , 37, 4991-7	1.7	22
419	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	1.7	22
418	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, 701-3	3	22
417	The Use of Fibre Optic Techniques for Temperature Measurement. <i>Measurement and Control</i> , 1987 , 20, 32-39	1.5	22
416	Advances in test and measurement of the interface adhesion and bond strengths in coating-substrate systems, emphasising blister and bulk techniques. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 139, 387-402	4.6	21
415	. <i>IEEE Sensors Journal</i> , 2019 , 19, 8720-8726	4	21
414	Building Stone Condition Monitoring Using Specially Designed Compensated Optical Fiber Humidity Sensors. <i>IEEE Sensors Journal</i> , 2012 , 12, 1011-1017	4	21
413	Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. <i>IEEE Sensors Journal</i> , 2013 , 13, 2555-2562	4	21

412	Numerical Analysis of Asymmetric Silicon Nanowire Waveguide as Compact Polarization Rotator. <i>IEEE Photonics Journal</i> , 2011 , 3, 381-389	1.8	21
411	Spectral characteristics and effects of heat treatment on intrinsic Nd-doped fiber thermometer probes. <i>Review of Scientific Instruments</i> , 1998 , 69, 139-145	1.7	21
410	Phase-locked detection of fluorescence lifetime. <i>Review of Scientific Instruments</i> , 1993 , 64, 2531-2540	1.7	21
409	Characteristics of Er and Er/Yb/Tm doped phosphate microsphere fibre lasers. <i>Optics Communications</i> , 2009 , 282, 3765-3769	2	20
408	Monitoring of an all-composite bridge using Bragg grating sensors. <i>Construction and Building Materials</i> , 2007 , 21, 1599-1604	6.7	20
407	Investigations on exponential lifetime measurements for fluorescence thermometry. <i>Review of Scientific Instruments</i> , 2000 , 71, 2938-2943	1.7	20
406	Thulium-doped fiber optic decay-time temperature sensors: Characterization of high temperature performance. <i>Review of Scientific Instruments</i> , 2000 , 71, 1614-1620	1.7	20
405	Fluorescent-based lifetime measurement thermometer for use at subroom temperatures (200B00 K). <i>Review of Scientific Instruments</i> , 1995 , 66, 2611-2614	1.7	20
404	Water surface measurement in a shallow channel using the transmitted image of a grating. <i>Review of Scientific Instruments</i> , 1990 , 61, 736-739	1.7	20
403	VUV laser-induced photofragmentation of NH ₃ : Internal energy distribution of NH(A 3 Σ). <i>Journal of Chemical Physics</i> , 1984 , 81, 4389-4395	3.9	20
402	Effect of titanium dioxide (TiO ₂) nanoparticle coating on the detection performance of microfiber knot resonator sensors for relative humidity measurement. <i>Materials Express</i> , 2016 , 6, 501-508	1.3	20
401	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	4	19
400	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	1.5	19
399	Stray light correction for diode-array-based spectrometers using a monochromator. <i>Applied Optics</i> , 2011 , 50, 5130-8	0.2	19
398	Design optimization of polymer electrooptic modulators. <i>Journal of Lightwave Technology</i> , 2006 , 24, 3506-3513	4	19
397	Highly photosensitive Sb/Er/Ge-codoped silica fiber for writing fiber Bragg gratings with strong high-temperature sustainability. <i>Optics Letters</i> , 2003 , 28, 2025-7	3	19
396	Fluorescence decay characteristic of Tm-doped YAG crystal fiber for sensor applications, investigated from room temperature to 1400°C. <i>IEEE Sensors Journal</i> , 2003 , 3, 507-512	4	19
395	Photophysical parameters for potential vapour-phase dye-laser media. <i>Applied Physics Berlin</i> , 1980 , 22, 307-311		19

394	Laser Cladding-Based Metallic Embedding Technique for Fiber Optic Sensors. <i>Journal of Lightwave Technology</i> , 2018 , 36, 1018-1025	4	18
393	. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4473-4478	4	18
392	Temporal thermal response of Type II-IR fiber Bragg gratings. <i>Applied Optics</i> , 2009 , 48, 3001-7	0.2	18
391	Chloride ion optical sensing using a long period grating pair. <i>Sensors and Actuators A: Physical</i> , 2008 , 141, 390-395	3.9	18
390	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	1.7	18
389	Bragg grating tuned fiber laser system for measurement of wider range temperature and strain. <i>Optics Communications</i> , 2005 , 244, 111-121	2	18
388	Microring stereo sensor model using Kerr-Vernier effect for bio-cell sensor and communication. <i>Nano Communication Networks</i> , 2018 , 17, 30-35	2.9	17
387	Ultra low bending loss equiangular spiral photonic crystal fibers in the terahertz regime. <i>AIP Advances</i> , 2012 , 2, 022140	1.5	17
386	Development and Longer Term In Situ Evaluation of Fiber-Optic Sensors for Monitoring of Structural Concrete. <i>IEEE Sensors Journal</i> , 2009 , 9, 1537-1545	4	17
385	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, 554-6	3	17
384	Fiber-optic Doppler velocimeter that incorporates active optical feedback from a diode laser. <i>Optics Letters</i> , 1992 , 17, 819-21	3	17
383	Fiber-optic absorption temperature sensor using fluorescence reference channel. <i>Review of Scientific Instruments</i> , 1986 , 57, 1175-1178	1.7	17
382	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	4	16
381	Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. <i>IEEE Sensors Journal</i> , 2013 , 13, 4459-4464	4	16
380	UV-stabilized silica-based fibre for applications around 200 nm wavelength. <i>Sensors and Actuators B: Chemical</i> , 1997 , 39, 305-309	8.5	16
379	Simultaneous measurement of strain (to 2000 /spl mu//spl epsiv/) and temperature (to 600/spl deg/C) using a combined Sb-Er-Ge-codoped fiber-fluorescence and grating-based technique. <i>IEEE Sensors Journal</i> , 2005 , 5, 1462-1468	4	16
378	Simultaneous strain-temperature measurement using fluorescence from Yb-doped silica fiber. <i>Review of Scientific Instruments</i> , 2000 , 71, 2267-2269	1.7	16
377	Design of Compact Optical Bends with a Trench by use of Finite-Element and Beam-Propagation Methods. <i>Applied Optics</i> , 2000 , 39, 4946-53	1.7	16

376	Intrinsic strain and temperature characteristics of Yb-doped silica-based optical fibers. <i>Review of Scientific Instruments</i> , 1999 , 70, 1447-1451	1.7	16
375	A Turn-On Fluorescence-Based Fibre Optic Sensor for the Detection of Mercury. <i>Sensors</i> , 2019 , 19,	3.8	15
374	LPG-based optical fibre sensor for acoustic wave detection. <i>Sensors and Actuators A: Physical</i> , 2012 , 173, 97-101	3.9	15
373	Ultrabroad supercontinuum generation in tellurite equiangular spiral photonic crystal fiber. <i>Journal of Modern Optics</i> , 2013 , 60, 956-962	1.1	15
372	Characterization of Silica Nanowires for Optical Sensing. <i>Journal of Lightwave Technology</i> , 2009 , 27, 5537-5542	1.5	15
371	Development of low cost packaged fibre optic sensors for use in reinforced concrete structures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 135, 617-624	4.6	15
370	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	4	15
369	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> , 2015 , 226, 11-20	3.9	14
368	Characterization of silicon nanowire by use of full-vectorial finite element method. <i>Applied Optics</i> , 2010 , 49, 3173-81	0.2	14
367	Rigorous modal analysis of silicon strip nanoscale waveguides. <i>Optics Express</i> , 2010 , 18, 8528-39	3.3	14
366	Bragg Grating Packages With Nonuniform Dimensions for Strain and Temperature Sensing. <i>IEEE Sensors Journal</i> , 2012 , 12, 139-144	4	14
365	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> , 2009 , 9, 1355-1360	4	14
364	Analysis of double exponential fluorescence decay behavior for optical temperature sensing. <i>Review of Scientific Instruments</i> , 1997 , 68, 58-63	1.7	14
363	Optical fiber sensors for monitoring ingress of moisture in structural concrete. <i>Review of Scientific Instruments</i> , 2006 , 77, 055108	1.7	14
362	Dual temperature and strain measurement with the combined fluorescence lifetime and Bragg wavelength shift approach in doped optical fiber. <i>Applied Optics</i> , 2002 , 41, 6585-92	1.7	14
361	Relation between the coherence length and modal noise in a graded-index multimode fiber for white-light interferometric systems. <i>Optics Letters</i> , 1994 , 19, 372-4	3	14
360	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> , 2009 , 151, 127-132	3.9	13
359	Polarization and dispersion properties of elliptical hole golden spiral photonic crystal fiber. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 99, 717-726	1.9	13

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