

Kenneth Grattan

List of Publications by Year in Descending Order

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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	Strain Sensor Based on Embedded Fiber Bragg Grating in Thermoplastic Polyurethane Using the 3D Printing Technology for Improved Sensitivity. <i>Photonic Sensors</i> , 2022 , 12, 1	2.3	3
518	Electrical performance of efficient quad-crescent-shaped Si nanowire solar cell.. <i>Scientific Reports</i> , 2022 , 12, 48	4.9	0
517	A High-Precision Extensometer System for Ground Displacement Measurement using Fiber Bragg Grating. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	0
516	Lead (Pb ²⁺) Ion Sensor Development using Optical Fiber Gratings and Nanocomposite Materials. <i>Sensors and Actuators B: Chemical</i> , 2022 , 131818	8.5	1
515	Rapid response all-fiber moisture sensor. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	
514	Modeling and characteristics of a nanostructured NiO/GeSe core-shell perovskite solar cell. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 3441	1.7	0
513	Determination of First Arrival Wave Type of Microseismic Signals and Approach to Wave Velocity Correction. <i>Shock and Vibration</i> , 2021 , 2021, 1-11	1.1	
512	Extended Study of Fiber Optic-Based Humidity Sensing System Performance for Sewer Network Condition Monitoring. <i>IEEE Sensors Journal</i> , 2021 , 21, 7665-7671	4	5
511	Observation of split evanescent field distributions in tapered multicore fibers for multiline nanoparticle trapping and microsensing. <i>Optics Express</i> , 2021 , 29, 9532-9543	3.3	2
510	Fiber optic sensor designs and luminescence-based methods for the detection of oxygen and pH measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 178, 109323	4.6	7
509	Lithium-Ion Battery State-of-Charge Estimator Based on FBG-Based Strain Sensor and Employing Machine Learning. <i>IEEE Sensors Journal</i> , 2021 , 21, 1453-1460	4	11
508	A Fiber Bragg Grating (FBG)-Based Sensor System for Anaerobic Biodigester Humidity Monitoring. <i>IEEE Sensors Journal</i> , 2021 , 21, 1540-1547	4	5
507	Structural parameter study of dual transducers-type ultrasonic levitation-based transportation system. <i>Smart Materials and Structures</i> , 2021 , 30, 045009	3.4	3
506	3D-Printed Tilt Sensor Based on an Embedded Two-Mode Fiber Interferometer. <i>IEEE Sensors Journal</i> , 2021 , 21, 7565-7571	4	4
505	Biaxial 3D-Printed Inclinometer Based on Fiber Bragg Grating Technology. <i>IEEE Sensors Journal</i> , 2021 , 21, 18815-18822	4	1
504	Nonlinear enhanced microresonator gyroscope. <i>Optica</i> , 2021 , 8, 1219	8.6	3
503	Ultrasensitive Refractive Index Sensor Based on Mach-Zehnder Interferometer and a 40 μ m Fiber. <i>Journal of Lightwave Technology</i> , 2021 , 39, 5625-5633	4	3

502	Temperature-compensated fiber-optic gas flow speed sensor based on the Hot-wire principle. <i>Optik</i> , 2021 , 241, 166118	2.5	
501	Novel 3D-printed biaxial tilt sensor based on fiber Bragg grating sensing approach. <i>Sensors and Actuators A: Physical</i> , 2021 , 330, 112864	3.9	4
500	Characterization of a fast response fiber-optic pH sensor and illustration in a biological application. <i>Analyst, The</i> , 2021 , 146, 4811-4821	5	2
499	Quasi-Distributed Fiber Optic Temperature and Humidity Sensor System for Monitoring of Grain Storage in Granaries. <i>IEEE Sensors Journal</i> , 2020 , 20, 9226-9233	4	4
498	Optical fibre thermometry using ratiometric green emission of an upconverting nanoparticle-polydimethylsiloxane composite. <i>Sensors and Actuators A: Physical</i> , 2020 , 312, 112083	3.9	5
497	Monitoring of the Critical Meniscus of Very Low Liquid Volumes Using an Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , 2020 , 20, 12232-12240	4	2
496	Novel coumarin-based pH sensitive fluorescent probes for the highly alkaline pH region. <i>Dyes and Pigments</i> , 2020 , 177, 108312	4.6	8
495	. <i>Journal of Lightwave Technology</i> , 2020 , 38, 1966-1974	4	9
494	Recognition of Microseismic and Blasting Signals in Mines Based on Convolutional Neural Network and Stockwell Transform. <i>IEEE Access</i> , 2020 , 8, 45523-45530	3.5	3
493	Design and optimization of perovskite plasmonic nano-laser for operation at room temperature. <i>Journal of Laser Applications</i> , 2020 , 32, 022017	2.1	2
492	Fast response time fiber optical pH and oxygen sensors 2020 ,		2
491	Characteristics of silicon nanowire solar cells with a crescent nanohole. <i>Optics Express</i> , 2020 , 28, 31020-31033	3.9	10
490	. <i>IEEE Sensors Journal</i> , 2020 , 20, 171-177	4	4
489	In-Sewer Field-Evaluation of an Optical Fibre-Based Condition Monitoring System. <i>IEEE Sensors Journal</i> , 2020 , 20, 2976-2981	4	7
488	Measurement and determination of encoder disc surface parameters in x-z planes using a conventional optical disc reading head. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 152, 107299	4.6	
487	. <i>IEEE Access</i> , 2020 , 8, 115263-115272	3.5	1
486	Underwater Pressure and Temperature Sensor Based on a Special Dual-Mode Optical Fiber. <i>IEEE Access</i> , 2020 , 8, 146463-146471	3.5	8
485	Encapsulation of Fiber Optic Sensors in 3D Printed Packages for Use in Civil Engineering Applications: A Preliminary Study. <i>Sensors</i> , 2019 , 19,	3.8	10

484	A Turn-On Fluorescence-Based Fibre Optic Sensor for the Detection of Mercury. <i>Sensors</i> , 2019 , 19,	3.8	15
483	Design and Modeling of a High Sensitivity Fiber Bragg Grating-Based Accelerometer. <i>IEEE Sensors Journal</i> , 2019 , 19, 5439-5445	4	8
482	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
481	Graphene oxide coated long period grating for optical sensing purposes. <i>Journal of Physics: Conference Series</i> , 2019 , 1151, 012022	0.3	
480	LiFi up-downlink conversion node model generated by inline successive optical pumping. <i>Microsystem Technologies</i> , 2019 , 25, 945-950	1.7	9
479	Ultrafast all-optical ALU operation using a soliton control within the cascaded InGaAsP/InP microring circuits. <i>Microsystem Technologies</i> , 2019 , 25, 431-440	1.7	7
478	Analysis of Fiber Optic Sensor Embedded in Metals by Automatic and Manual TIG Welding. <i>IEEE Sensors Journal</i> , 2019 , 19, 7425-7433	4	8
477	. <i>IEEE Sensors Journal</i> , 2019 , 19, 8720-8726	4	21
476	High sensitivity micro-fiber Mach-Zehnder interferometric temperature sensors with a high index ring layer. <i>Optics Express</i> , 2019 , 27, 34247-34257	3.3	4
475	Demonstration of a microelectromechanical tunable Fabry-Pérot cavity based on graphene-bonded fiber devices. <i>Optics Letters</i> , 2019 , 44, 1876-1879	3	4
474	Optical Fiber Sensors for Remote Condition Monitoring of Industrial Structures 2019 , 1815-1838		
473	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	4.9	7
472	Acoustic Standing Wave Field Measurement Using a Laser Doppler Vibrometer Based on the Hankel Fourier Algorithm. <i>IEEE Access</i> , 2019 , 7, 139013-139020	3.5	3
471	Enhanced Raman Detection System Based on a Hollow-Core Fiber Probe Design. <i>IEEE Sensors Journal</i> , 2019 , 19, 560-566	4	3
470	. <i>IEEE Sensors Journal</i> , 2019 , 19, 1794-1801	4	6
469	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
468	In-situ 3D micro-sensor model using embedded plasmonic island for biosensors. <i>Microsystem Technologies</i> , 2018 , 24, 3631-3635	1.7	5
467	Plasmonic op-amp circuit model using the inline successive microring pumping technique. <i>Microsystem Technologies</i> , 2018 , 24, 3689-3695	1.7	7

466	Electron Mobility Sensor Scheme-Based on a Mach-Zehnder Interferometer Approach. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 887-890	2.2	1
465	Optical Fibre Sensors for Remote Condition Monitoring of Industrial Structures 2018 , 1-24		
464	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
463	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	4	10
462	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
461	Ultra-fast electro-optic switching control using a soliton pulse within a modified add-drop multiplexer. <i>Microsystem Technologies</i> , 2018 , 24, 3777-3782	1.7	12
460	Laser Cladding-Based Metallic Embedding Technique for Fiber Optic Sensors. <i>Journal of Lightwave Technology</i> , 2018 , 36, 1018-1025	4	18
459	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
458	High-Q and temperature stable photonic biosensor based on grating waveguides. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	8
457	Multifunction interferometry using the electron mobility visibility and mean free path relationship. <i>Microscopy Research and Technique</i> , 2018 , 81, 872-877	2.8	2
456	Nano-capacitor-like model using light trapping in plasmonic island embedded microring system. <i>Results in Physics</i> , 2018 , 10, 727-730	3.7	5
455	On the Physical Origin of Strain Sensitivity in Optical Fibre Rare Earth Fluorescence Sensors 2018 , 231-236		
454	Fabrication of a high sensitive Ag-nanoparticle substrate and its application to the detection of toxic substances. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 252010	0.3	
453	Estimation of the aspect-ratio distribution in chemically synthesized gold nanorods solution using UV-visible absorption spectroscopy. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 032023	0.3	
452	Enhancing the Sensitivity of SMS Fiber Sensors by the Use of High Refractive Index Coatings. <i>Proceedings (mdpi)</i> , 2018 , 2, 1106	0.3	
451	High Precision Synchronous Detection Method for Multi-gas detection using a Single Laser. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 252013	0.3	0
450	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> , 2018 , 1065, 252018	0.3	1
449	TDLAS Detection of propane and butane gas over the near-infrared wavelength range from 1678nm to 1686nm. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 252006	0.3	2

448	Stability of Graphene Oxide encapsulated Gold Nanorods for optical sensing purposes. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 032021	0.3	
447	Characteristics of few-mode fibre and its application in simultaneous strain and temperature measurement. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 252005	0.3	
446	Quasi-distributed multipoint laser methane detection system and its application in cable trench safety monitoring. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 252020	0.3	
445	A long-term stable monitoring system for atmospheric carbon monoxide based on 2.3 μ m laser absorption. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 252017	0.3	1
444	An integrated microring circuit design for optoelectronic transformer applications. <i>Results in Physics</i> , 2018 , 11, 706-708	3.7	
443	Laser methane sensor and its field application in coal mine safety. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 252022	0.3	
442	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> , 2018 , 1065, 252023	0.3	3
441	High-density WGM probes generated by a ChG ring resonator for high-density 3D imaging and applications. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 2689-2693	1.2	
440	Ultrafast chaotic switching and monitoring using plasmonic add-drop multiplexer. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 2719-2724	1.2	
439	Novel Kerr-Vernier effects within the on-chip Si-ChG microring circuits. <i>Results in Physics</i> , 2018 , 11, 144-147	1.7	
438	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
437	High-Sensitivity Hot-Wire-Based Gas Velocity Sensor for Safe Monitoring in Mining Applications. <i>IEEE Sensors Journal</i> , 2018 , 18, 10192-10198	4	4
436	Mode-locked self-pumping and squeezing photons model in a nonlinear micro-ring resonator. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	5
435	On-chip supercontinuum generation in nanostructured Ge _{11.5} As ₂₄ Se _{64.5} chalcogenide waveguides using Panda-ring resonator. <i>Results in Physics</i> , 2018 , 10, 138-144	3.7	6
434	On-chip electro-optic multiplexing circuit using serial microring boxcar filters. <i>Results in Physics</i> , 2018 , 10, 18-21	3.7	7
433	Energy efficiency of ironBoronSilicon metallic glasses in sulfuric acid solutions. <i>Materials Research Express</i> , 2017 , 4, 035201	1.7	
432	Graphene oxide coated long period grating based fibre optic humidity sensor 2017 ,		1
431	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> , 2017 , 17, 4975-4982	4	11

430	Suppression of subsidiary fringes in white light interferometry utilizing two-wavelength light source. <i>Optics Communications</i> , 2017 , 403, 121-126	2	
429	Use of optical fibres for multi-parameter monitoring in electrical AC machines 2017 ,		3
428	Rigorous Analysis of Acousto-Optic Interactions in Optical Waveguides. <i>Springer Series in Optical Sciences</i> , 2017 , 107-129	0.5	
427	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
426	. <i>Journal of Lightwave Technology</i> , 2017 , 35, 3393-3398	4	9
425	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
424	Optical Fiber Sensors for Marine Structural Condition Monitoring 2017 , 1-9		
423	[INVITED] Developments in optical fibre sensors for industrial applications. <i>Optics and Laser Technology</i> , 2016 , 78, 62-66	4.2	53
422	. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4473-4478	4	18
421	Fibre Bragg Grating-Based Acoustic Sensor Array for Improved Condition Monitoring of Marine Lifting Surfaces. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4336-4342	4	6
420	Surface plasmon resonance based fibre optic chemical sensor for the detection of cocaine 2016 ,		1
419	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
418	Investigation of the Optical Modal Properties of Al ³⁺ Doped ZnO-Coated Au Waveguide for Gas Sensing Applications Using the Finite Element Method. <i>IEEE Sensors Journal</i> , 2016 , 16, 1176-1181	4	3
417	Uncertainty evaluation of trigonometric method for vertical angle calibration of the total station instrument. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 86, 276-282	4.6	6
416	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
415	Modal analysis and experimental research into improved centering/leveling devices. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 88, 9-17	4.6	2
414	Variable Waist-Diameter Mach-Zehnder Tapered-Fiber Interferometer as Humidity and Temperature Sensor. <i>IEEE Sensors Journal</i> , 2016 , 16, 5987-5992	4	35
413	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

412	Fluorescent optical fibre chemosensor for the detection of mercury 2016 ,		2
411	A pilot study: Evaluation of sensor system design for optical fibre humidity sensors subjected to aggressive air sewer environment 2016 ,		3
410	Fibre Grating-based Sensor Design for Humidity Measurement in Chemically Harsh Environment. <i>Procedia Engineering</i> , 2016 , 168, 1317-1320		8
409	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
408	Rigorous analysis of acoustic modes in low and high index contrast silica fibers. <i>Applied Optics</i> , 2015 , 54, 2550-7	1.7	
407	Characterization of a polyimide-coated humidity sensor in a hybrid fibre grating configuration 2015 ,		1
406	Identification of cavitation signatures using both optical and PZT acoustic sensors 2015 ,		1
405	Vibration measurement of electrical machines using integrated fibre Bragg gratings 2015 ,		2
404	Optical Fibre Refractive Index Sensor in a Hybrid Fibre Grating Configuration. <i>Procedia Engineering</i> , 2015 , 120, 11-14		2
403	The acoustic signatures of cavitation erosion on grade DH36 steel. <i>Journal of Physics: Conference Series</i> , 2015 , 656, 012109	0.3	1
402	Simultaneous Measurement of Strain and Temperature Using a Single Emission Line. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2426-2431	4	5
401	A Novel Wireless Mobile Platform to Locate and Gather Data From Optical Fiber Sensors Integrated Into a WSN. <i>IEEE Sensors Journal</i> , 2015 , 15, 3615-3621	4	8
400	Computational Design and Fabrication of Optical Fibre Fluorescent Chemical Probes for the Detection of Cocaine. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2572-2579	4	10
399	Optical sensor for pH monitoring using a layer-by-layer deposition technique emphasizing enhanced stability and re-usability. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 692-701	8.5	8
398	LSPR optical fibre sensors based on hollow gold nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2014 , 191, 37-44	8.5	56
397	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
396	Wireless Sensor Network Platform for Intrinsic Optical Fiber pH Sensors. <i>IEEE Sensors Journal</i> , 2014 , 14, 1313-1320	4	12
395	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

394	Gold nanorod-based localized surface plasmon resonance biosensors: A review. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 332-351	8.5	471
393	Full-Vectorial Finite-Element Analysis of Acoustic Modes in Silica Waveguides. <i>IEEE Journal of Quantum Electronics</i> , 2014 , 50, 1006-1013	2	3
392	Fiber Optic pH Sensor Using Optimized Layer-by-Layer Coating Approach. <i>IEEE Sensors Journal</i> , 2014 , 14, 47-54	4	11
391	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
390	Fiber Bragg Grating-Based System for 2-D Analysis of Vibrational Modes of a Steel Propeller Blade. <i>Journal of Lightwave Technology</i> , 2014 , 32, 4593-4599	4	9
389	Theoretical aspects of the calibration of geodetic angle measurement instrumentation. <i>Mechanika</i> , 2014 , 20,	1.5	2
388	Structural monitoring for asset management of railway bridges. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2014 , 167, 157-169	0.5	4
387	Rigorous characterization of acoustic-optical interactions in silicon slot waveguides by full-vectorial finite element method. <i>Optics Express</i> , 2014 , 22, 9528-37	3.3	9
386	Rigorous analysis of the transverse acoustic modes in optical waveguides by exploiting their structural symmetry. <i>Applied Optics</i> , 2014 , 53, 6797-803	1.7	2
385	Simultaneous measurement of strain and temperature using a unique LPG-coupled fibre laser scheme 2014 ,		1
384	Investigation of single-mode fiber degradation by 405-nm continuous-wave laser light. <i>Optical Engineering</i> , 2014 , 53, 122512	1.1	1
383	Reinforced concrete structural corrosion monitoring using Hi-Bi photonic crystal fibres in a fiber loop structure 2014 ,		3
382	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	8.5	88
381	Lateral force sensing system based on different photonic crystal fibres. <i>Sensors and Actuators A: Physical</i> , 2014 , 205, 86-91	3.9	10
380	Investigation of single-mode fiber output damage by 405nm CW laser light 2013 ,		1
379	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 8500606-8500606	3.8	3
378	Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Footbridge Under Extended Test Conditions. <i>IEEE Sensors Journal</i> , 2013 , 13, 1036-1043	4	11
377	Ultrabroad supercontinuum generation in tellurite equiangular spiral photonic crystal fiber. <i>Journal of Modern Optics</i> , 2013 , 60, 956-962	1.1	15

376	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
375	A Higher Order Lateral Mode Suppression Scheme for Terahertz Quantum Cascade Laser Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 8501106-8501106	3.8	3
374	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> , 2013 , 13, 1117-1124	4	9
373	Ludwik Finkelstein and measurement: A challenge for the future. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013 , 46, 2990-2992	4.6	
372	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
371	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
370	Feasibility studies using thin sol-gel films doped with a novel lead-selective fluorophore for optical fibre sensing applications. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013 , 46, 2971-2977	4.6	7
369	Long Period Grating-based optical fibre sensor for the underwater detection of acoustic waves. <i>Sensors and Actuators A: Physical</i> , 2013 , 201, 289-293	3.9	7
368	. <i>IEEE Sensors Journal</i> , 2013 , 13, 767-771	4	45
367	High power 405nm diode laser fiber-coupled single-mode system with high long-term stability 2013		3
366	Wavelength-based localized surface plasmon resonance optical fiber biosensor. <i>Sensors and Actuators B: Chemical</i> , 2013 , 181, 611-619	8.5	104
365	Generation of periodic surface structures on silica fibre surfaces using 405 nm CW diode lasers. <i>Journal of Non-Crystalline Solids</i> , 2013 , 361, 106-110	3.9	6
364	Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. <i>IEEE Sensors Journal</i> , 2013 , 13, 2555-2562	4	21
363	Rigorous Full-Vectorial Beam Propagation Analysis of Second-Harmonic Generation in Zinc Oxide Waveguides. <i>IEEE Photonics Journal</i> , 2013 , 5, 6100112-6100112	1.8	2
362	Sensitive detection of CO ₂ implementing tunable thulium-doped all-fiber laser. <i>Applied Optics</i> , 2013 , 52, 3957-63	1.7	34
361	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
360	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
359	Preparation of a novel drug sensor using a molecular imprinted polymer approach 2013 ,		1

358	A Novel Optical Sensor Platform Designed for Wireless Sensor Networks. <i>Journal of Physics: Conference Series</i> , 2013 , 450, 012007	0.3	3
357	ELIMINATION OF NUMERICAL DISPERSION FROM ELECTROMAGNETIC TIME DOMAIN ANALYSIS BY USING RESOURCE EFFICIENT FINITE ELEMENT TECHNIQUE. <i>Progress in Electromagnetics Research</i> , 2013 , 137, 487-512	3.8	3
356	LPG-based optical fibre sensor for acoustic wave detection. <i>Sensors and Actuators A: Physical</i> , 2012 , 173, 97-101	3.9	15
355	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
354	Numerical Analysis of Second Harmonic Generation in Soft Glass Equiangular Spiral Photonic Crystal Fibers. <i>IEEE Photonics Journal</i> , 2012 , 4, 357-368	1.8	7
353	Stabilized Large Mode Area in Tapered Photonic Crystal Fiber for Stable Coupling. <i>IEEE Photonics Journal</i> , 2012 , 4, 340-349	1.8	4
352	"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
351	Fiber-Optic Strain Sensor System With Temperature Compensation for Arch Bridge Condition Monitoring. <i>IEEE Sensors Journal</i> , 2012 , 12, 1470-1476	4	25
350	Light guidance in low-index slot-waveguides 2012 ,		1
349	Building Stone Condition Monitoring Using Specially Designed Compensated Optical Fiber Humidity Sensors. <i>IEEE Sensors Journal</i> , 2012 , 12, 1011-1017	4	21
348	Transverse force sensitivity of joint photonic crystal fibres 2012 ,		2
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