

Jose Miguel Lopez-Higuera

List of Publications by Year in descending order

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334
papers

4,250
citations

136740

32
h-index

155451

55
g-index

336
all docs

336
docs citations

336
times ranked

3515
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber Optic Sensors in Structural Health Monitoring. Journal of Lightwave Technology, 2011, 29, 587-608.	2.7	636
2	Brillouin Distributed Fiber Sensors: An Overview and Applications. Journal of Sensors, 2012, 2012, 1-17.	0.6	135
3	Real-time arc-welding defect detection and classification with principal component analysis and artificial neural networks. NDT and E International, 2007, 40, 315-323.	1.7	121
4	Infrared thermography processing based on higher-order statistics. NDT and E International, 2010, 43, 661-666.	1.7	99
5	Methane detection at 1670-nm band using a hollow-core photonic bandgap fiber and a multiline algorithm. Optics Express, 2007, 15, 17570.	1.7	98
6	Lateral polishing of bends in plastic optical fibres applied to a multipoint liquid-level measurement sensor. Sensors and Actuators A: Physical, 2007, 137, 68-73.	2.0	93
7	Modification of the refractive index response of long period gratings using thin film overlays. Sensors and Actuators B: Chemical, 2005, 107, 738-741.	4.0	80
8	Proposal of Brillouin optical frequency-domain reflectometry (BOFDR). Optics Express, 2016, 24, 29994.	1.7	72
9	Roadmap on optical sensors. Journal of Optics (United Kingdom), 2017, 19, 083001.	1.0	70
10	Strongly resonant silicon slot metasurfaces with symmetry-protected bound states in the continuum. Optics Express, 2021, 29, 10374.	1.7	67
11	Simple low-frequency optical fiber accelerometer with large rotating machine monitoring applications. Journal of Lightwave Technology, 1997, 15, 1120-1130.	2.7	59
12	A quasi-distributed level sensor based on a bent side-polished plastic optical fibre cable. Measurement Science and Technology, 2007, 18, 2261-2267.	1.4	59
13	L-Band Multiwavelength Single-Longitudinal Mode Fiber Laser for Sensing Applications. Journal of Lightwave Technology, 2012, 30, 1173-1177.	2.7	53
14	Fiber Specklegram-Multiplexed Sensor. Journal of Lightwave Technology, 2015, 33, 2591-2597.	2.7	52
15	Real-time arc welding defect detection technique by means of plasma spectrum optical analysis. NDT and E International, 2006, 39, 356-360.	1.7	51
16	Optical fiber strain sensor with extended dynamic range based on specklegrams. Sensors and Actuators A: Physical, 2013, 203, 341-345.	2.0	49
17	Machine Learning for Turning Optical Fiber Specklegram Sensor into a Spatially-Resolved Sensing System. Proof of Concept. Journal of Lightwave Technology, 2018, 36, 3733-3738.	2.7	49
18	Stabilization of Dual-Wavelength Erbium-Doped Fiber Ring Lasers by Single-Mode Operation. IEEE Photonics Technology Letters, 2010, 22, 368-370.	1.3	48

#	ARTICLE	IF	CITATIONS
19	Overcoming Nonlocal Effects and Brillouin Threshold Limitations in Brillouin Optical Time-Domain Sensors. IEEE Photonics Journal, 2015, 7, 1-9.	1.0	48
20	Optical techniques for real-time penetration monitoring for laser welding. Applied Optics, 2005, 44, 3869.	2.1	46
21	Spectral processing technique based on feature selection and artificial neural networks for arc-welding quality monitoring. NDT and E International, 2009, 42, 56-63.	1.7	45
22	Fiber Bragg grating as an optical filter tuned by a magnetic field. Optics Letters, 1997, 22, 603.	1.7	44
23	Tunable SESAM-Based Mode-Locked Soliton Fiber Laser in Linear Cavity by Axial-Strain Applied to an FBG. Journal of Lightwave Technology, 2017, 35, 5003-5009.	2.7	43
24	Uniform fiber Bragg grating first- and second-order diffraction wavelength experimental characterization for strain-temperature discrimination. IEEE Photonics Technology Letters, 2001, 13, 696-698.	1.3	39
25	Gas Sensor Based on Photonic Crystal Fibres in the $2\hat{1}/23$ and $2\hat{1}/2 + 2\hat{1}/23$ Vibrational Bands of Methane. Sensors, 2009, 9, 6261-6272.	2.1	38
26	Simultaneous Temperature and Strain Discrimination in a Conventional BOTDA via Artificial Neural Networks. Journal of Lightwave Technology, 2018, 36, 2114-2121.	2.7	38
27	Spectroscopic analysis of the plasma continuum radiation for on-line arc-welding defect detection. Journal Physics D: Applied Physics, 2008, 41, 135202.	1.3	36
28	Quality control of industrial processes by combining a hyperspectral sensor and Fisher's linear discriminant analysis. Sensors and Actuators B: Chemical, 2008, 129, 977-984.	4.0	36
29	Dual-Wavelength Single-Longitudinal Mode Fiber Laser Using Phase-Shift Bragg Gratings. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 161-165.	1.9	36
30	Curvature Sensor Based on In-Fiber Mach-Zehnder Interferometer Inscribed With Femtosecond Laser. Journal of Lightwave Technology, 2017, 35, 4624-4628.	2.7	36
31	New method to calculate mode conversion coefficients in si multimode optical fibers. Journal of Lightwave Technology, 2003, 21, 776-781.	2.7	34
32	Analogue of electromagnetically induced transparency in square slotted silicon metasurfaces supporting bound states in the continuum. Optics Express, 2022, 30, 4615.	1.7	34
33	Editorial Optical Fiber Sensor Technology and Applications. IEEE Sensors Journal, 2008, 8, 1052-1054.	2.4	32
34	Comparative Experimental Study of a High-Temperature Raman-Based Distributed Optical Fiber Sensor with Different Special Fibers. Sensors, 2019, 19, 574.	2.1	32
35	Fast algorithm for spectral processing with application to on-line welding quality assurance. Measurement Science and Technology, 2006, 17, 2623-2629.	1.4	31
36	Stability Comparison of Two Ring Resonator Structures for Multiwavelength Fiber Lasers Using Highly Doped Er-Fibers. Journal of Lightwave Technology, 2009, 27, 2563-2569.	2.7	30

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37	Tunable Dual-Wavelength Random Distributed Feedback Fiber Laser With Bidirectional Pumping Source. <i>Journal of Lightwave Technology</i> , 2016, 34, 4148-4153.	2.7	30
38	Closed-loop power and focus control of laser welding for full-penetration monitoring. <i>Applied Optics</i> , 2005, 44, 13.	2.1	29
39	Data Processing Method Applying Principal Component Analysis and Spectral Angle Mapper for Imaging Spectroscopic Sensors. <i>IEEE Sensors Journal</i> , 2008, 8, 1310-1316.	2.4	29
40	Low-cost fiber specklegram sensor for noncontact continuous patient monitoring. <i>Journal of Biomedical Optics</i> , 2017, 22, 037001.	1.4	29
41	Single and double distributed optical amplifier fiber bus networks with wavelength-division multiplexing for photonic sensors. <i>Optics Letters</i> , 1999, 24, 805.	1.7	28
42	Recent Advances in Biomedical Photonic Sensors: A Focus on Optical-Fibre-Based Sensing. <i>Sensors</i> , 2021, 21, 6469.	2.1	28
43	Methane sensing at 1300â€¦nm band with hollow-core photonic bandgap fibre as gas cell. <i>Electronics Letters</i> , 2008, 44, 403.	0.5	27
44	On the spectral signature of melanoma: a non-parametric classification framework for cancer detection in hyperspectral imaging of melanocytic lesions. <i>Biomedical Optics Express</i> , 2018, 9, 6283.	1.5	26
45	Interrogation unit for fiber Bragg grating sensors that uses a slanted fiber grating. <i>Optics Letters</i> , 2004, 29, 676.	1.7	25
46	Resilient long-distance sensor system using a multiwavelength Raman laser. <i>Measurement Science and Technology</i> , 2010, 21, 094017.	1.4	25
47	Spectroscopic Sensor System for Quality Assurance of the Tube-To-Tubesheet Welding Process in Nuclear Steam Generators. <i>IEEE Sensors Journal</i> , 2007, 7, 1219-1224.	2.4	24
48	New raw material discrimination system based on a spatial optical spectroscopy technique. <i>Sensors and Actuators A: Physical</i> , 2007, 135, 605-612.	2.0	24
49	Estimation of surgeonsâ€™ ergonomic dynamics with a structured light system during endoscopic surgery. <i>International Forum of Allergy and Rhinology</i> , 2019, 9, 857-864.	1.5	24
50	Slit Beam Shaping Technique for Femtosecond Laser Inscription of Enhanced Plane-by-Plane FBGs. <i>Journal of Lightwave Technology</i> , 2020, 38, 4526-4532.	2.7	24
51	Remote (155 km) Fiber Bragg Grating Interrogation Technique Combining Raman, Brillouin, and Erbium Gain in a Fiber Laser. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 621-623.	1.3	23
52	Virtual long-period gratings. <i>Optics Letters</i> , 2005, 30, 14.	1.7	22
53	Plasma spectroscopy analysis technique based on optimization algorithms and spectral synthesis for arc-welding quality assurance. <i>Optics Express</i> , 2007, 15, 1884.	1.7	22
54	Ultrahigh Temperature Raman-Based Distributed Optical Fiber Sensor With Gold-Coated Fiber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 296-301.	1.9	22

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55	Enhanced contrast detection of subsurface defects by pulsed infrared thermography based on the fourth order statistic moment, kurtosis. , 2009, , .		21
56	Use of the Plasma Spectrum RMS Signal for Arc-Welding Diagnostics. Sensors, 2009, 9, 5263-5276.	2.1	21
57	Sensor for the Detection of Protective Coating Traces on Boron Steel With Aluminiumâ€“Silicon Covering by Means of Laser-Induced Breakdown Spectroscopy and Support Vector Machines. IEEE Sensors Journal, 2012, 12, 64-70.	2.4	21
58	Allâ€“Dielectric Toroidal Metasurfaces for Angularâ€“Dependent Resonant Polarization Beam Splitting. Advanced Optical Materials, 2021, 9, 2002143.	3.6	21
59	New approach using a bare fiber optic cantilever beam as a lowâ€“frequency acceleration measuring element. Optical Engineering, 1996, 35, 1700.	0.5	20
60	Optical Fiber Sensors by Direct Laser Processing: A Review. Sensors, 2020, 20, 6971.	2.1	20
61	Arc-Welding Spectroscopic Monitoring based on Feature Selection and Neural Networks. Sensors, 2008, 8, 6496-6506.	2.1	19
62	Defect Detection in Arc-Welding Processes by Means of the Line-to-Continuum Method and Feature Selection. Sensors, 2009, 9, 7753-7770.	2.1	19
63	Single-longitudinal mode laser structure based on a very narrow filtering technique. Optics Express, 2013, 21, 10289.	1.7	19
64	Single-Longitudinal-Mode Dual Wavelength-Switchable Fiber Laser Based on Superposed Fiber Bragg Gratings. IEEE Photonics Journal, 2015, 7, 1-7.	1.0	18
65	Directional Kernel Density Estimation for Classification of Breast Tissue Spectra. IEEE Transactions on Medical Imaging, 2017, 36, 64-73.	5.4	18
66	Comparison of the Stability of Ring Resonator Structures for Multiwavelength Fiber Lasers Using Raman or Er-Doped Fiber Amplification. IEEE Journal of Quantum Electronics, 2009, 45, 1551-1557.	1.0	17
67	Custom Scanning Hyperspectral Imaging System for Biomedical Applications: Modeling, Benchmarking, and Specifications. Sensors, 2019, 19, 1692.	2.1	17
68	Spectral modelling of curved long-period fibre gratings. Measurement Science and Technology, 2001, 12, 786-792.	1.4	16
69	Automated Measurement of Magnesium/Calcium Ratios in Gastropod Shells Using Laser-Induced Breakdown Spectroscopy for Paleoclimatic Applications. Applied Spectroscopy, 2017, 71, 591-599.	1.2	16
70	Aspherical liquid crystal lenses based on a variable transmission electrode. Optics Express, 2022, 30, 12237.	1.7	16
71	Multi-Line Fit Model for the Detection of Methane at $\hat{1}\frac{1}{2}2 + 2\hat{1}\frac{1}{2}3$ Band using Hollow-Core Photonic Bandgap Fibres. Sensors, 2009, 9, 490-502.	2.1	15
72	Ultrasensitive UV-tunable grating in all-solid photonic bandgap fibers. Optics Communications, 2009, 282, 2358-2361.	1.0	15

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73	Optical coherence tomography assessment of vessel wall degradation in thoracic aortic aneurysms. <i>Journal of Biomedical Optics</i> , 2013, 18, 126003.	1.4	15
74	Distributed High-Temperature Optical Fiber Sensor Based on a Brillouin Optical Time Domain Analyzer and Multimode Gold-Coated Fiber. <i>IEEE Sensors Journal</i> , 2017, 17, 2393-2397.	2.4	15
75	Mg/Ca profiles within archaeological mollusc (<i>Patella vulgata</i>) shells: Laser-Induced Breakdown Spectroscopy compared to Inductively Coupled Plasma-Optical Emission Spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 148, 8-15.	1.5	14
76	Cylindrical and Powell Liquid Crystal Lenses With Positive-Negative Optical Power. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 1057-1060.	1.3	14
77	A simple and efficient model for indoor path-loss prediction. <i>Measurement Science and Technology</i> , 1997, 8, 1166-1173.	1.4	13
78	Stability comparison of two quadruple-wavelength switchable erbium-doped fiber lasers. <i>Optical Fiber Technology</i> , 2010, 16, 205-211.	1.4	13
79	Normalization of laser-induced breakdown spectroscopy spectra using a plastic optical fiber light collector and acoustic sensor device. <i>Applied Optics</i> , 2012, 51, 8306.	0.9	13
80	Single Longitudinal Mode Lasers by Using Artificially Controlled Backscattering Erbium Doped Fibers. <i>IEEE Access</i> , 2021, 9, 27428-27433.	2.6	13
81	All-Dielectric Metasurface Based on Complementary Split-Ring Resonators for Refractive Index Sensing. <i>Photonics</i> , 2022, 9, 130.	0.9	13
82	Embedded temperature-strain fibre Bragg grating sensor system validation for concrete structures. <i>Journal of Optics</i> , 2002, 4, S387-S390.	1.5	12
83	Torsion-induced effects on UV long-period fiber gratings. , 2004, , .		12
84	Defect assessment on radiant heaters using infrared thermography. <i>NDT and E International</i> , 2005, 38, 428-432.	1.7	12
85	Influence of Humidity on the Measurement of Brillouin Frequency Shift. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1959-1961.	1.3	12
86	Direct identification of breast cancer pathologies using blind separation of label-free localized reflectance measurements. <i>Biomedical Optics Express</i> , 2013, 4, 1104.	1.5	12
87	Colorimetric Analysis for On-Line Arc-Welding Diagnostics by Means of Plasma Optical Spectroscopy. <i>IEEE Sensors Journal</i> , 2016, 16, 3465-3471.	2.4	12
88	Modeling and Synthesis of Breast Cancer Optical Property Signatures With Generative Models. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1687-1701.	5.4	12
89	Optical fiber lasers assisted by microdrilled optical fiber tapers. <i>Optics Letters</i> , 2019, 44, 2669.	1.7	12
90	Principle of functioning of a self-compensated fibre-optical displacement sensor based on diffraction-grating-ended POF. <i>Measurement Science and Technology</i> , 2004, 15, 1474-1478.	1.4	11

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91	Application of infrared thermography to the fabrication process of nuclear fuel containers. NDT and E International, 2005, 38, 397-401.	1.7	11
92	Optoelectronic device for non-invasive focal point measurement and control of the laser welding process. Measurement Science and Technology, 2005, 16, N1-N6.	1.4	11
93	Robust technique for spectroscopic plasma analysis with application in real-time arc welding quality monitoring. Optical Engineering, 2006, 45, 083002.	0.5	11
94	Embedded compaction pressure sensor based on Fiber Bragg Gratings. Measurement: Journal of the International Measurement Confederation, 2015, 68, 257-261.	2.5	11
95	Structural Damage Identification in an Aluminum Composite Plate by Brillouin Sensing. IEEE Sensors Journal, 2015, 15, 659-660.	2.4	11
96	Ultra-high temperature and strain hybrid integrated sensor system based on Raman and femtosecond FBG inscription in a multimode gold-coated fiber. Optics Express, 2019, 27, 37122.	1.7	11
97	New micro-optic cell for optical fibre gas sensors with interferometric noise reduction. Electronics Letters, 1997, 33, 1407.	0.5	10
98	Wavelength-division-multiplexed distributed fiber Raman amplifier bus network for sensors. , 2005, 5855, 242.		10
99	Multiparameter sensor based on a chaotic fiber-ring resonator. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2024.	0.9	10
100	Speckle characterization in multimode fibers for sensing applications. , 2012, , .		10
101	Engineering Aspheric Liquid Crystal Lenses by Using the Transmission Electrode Technique. Crystals, 2020, 10, 835.	1.0	10
102	Fiber Bragg sensors interrogation based on carrier generation by modulating the coupling length of a wavelength-division multiplexer. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 750-755.	1.9	9
103	Near-field theoretical model of radiation from a uniform-tilted fiber-Bragg grating. Microwave and Optical Technology Letters, 2003, 37, 124-127.	0.9	9
104	Fabrication of FBGs With an Arbitrary Spectrum. IEEE Sensors Journal, 2008, 8, 1287-1291.	2.4	9
105	A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. IEEE Sensors Journal, 2013, 13, 2279-2283.	2.4	9
106	Virtual FBGs Using Saturable Absorbers for Sensing with Fiber Lasers. Sensors, 2018, 18, 3593.	2.1	9
107	Reflection-based lab-in-fiber sensor integrated in a surgical needle for biomedical applications. Optics Letters, 2020, 45, 5242.	1.7	9
108	Multiplexing Techniques for FBG Sensors. , 2011, , 99-115.		9

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109	Interrogation of low-finesse Fabry-Perot cavities based on modulation of the transfer function of a wavelength division multiplexer. <i>Journal of Lightwave Technology</i> , 2001, 19, 673-681.	2.7	8
110	Fiber optic civil structure monitoring system. <i>Optical Engineering</i> , 2005, 44, 044401.	0.5	8
111	Embedded spectroscopic fiber sensor for on-line arc-welding analysis. <i>Applied Optics</i> , 2007, 46, 3215.	2.1	8
112	Low cost plastic optical fiber sensor based on surface plasmon resonance. , 2010, , .		8
113	Brillouin frequency shift of standard optical fibers set in water vapor medium. <i>Optics Letters</i> , 2010, 35, 28.	1.7	8
114	Decimeter Spatial Resolution by Using Differential Preexcitation BOTDA Pulse Technique. <i>IEEE Sensors Journal</i> , 2011, 11, 2344-2348.	2.4	8
115	POF vibration sensor based on speckle pattern changes. <i>Proceedings of SPIE</i> , 2012, , .	0.8	8
116	Fiber Bragg grating sensors for on-line welding diagnostics. <i>Journal of Materials Processing Technology</i> , 2014, 214, 839-843.	3.1	8
117	New algorithm based on the Hough transform for the analysis of pulsed thermographic sequences. <i>NDT and E International</i> , 2006, 39, 617-621.	1.7	7
118	Adaptive illumination source for multispectral vision system applied to material discrimination. <i>Proceedings of SPIE</i> , 2008, , .	0.8	7
119	Raw Material Classification by Means of Hyperspectral Imaging and Hierarchical Temporal Memories. <i>IEEE Sensors Journal</i> , 2012, 12, 2767-2775.	2.4	7
120	Welding Diagnostics by Means of Particle Swarm Optimization and Feature Selection. <i>Journal of Sensors</i> , 2012, 2012, 1-11.	0.6	7
121	Feasibility study of Hierarchical Temporal Memories applied to welding diagnostics. <i>Sensors and Actuators A: Physical</i> , 2013, 204, 58-66.	2.0	7
122	Identification of vessel wall degradation in ascending thoracic aortic aneurysms with OCT. <i>Biomedical Optics Express</i> , 2014, 5, 4089.	1.5	7
123	Switchable Dual-Wavelength Mode-Locked Fiber Laser Source for In-PCF Parametric Frequency Conversion Applied to CARS Microscopy. <i>Journal of Lightwave Technology</i> , 2019, 37, 3510-3516.	2.7	7
124	Design and application of double amplified recirculating ring structure for hybrid fibre buses. <i>Optical and Quantum Electronics</i> , 1995, 27, 847-857.	1.5	6
125	Interrogation of interferometric sensors with a tilted fiber Bragg grating. <i>Optics Express</i> , 2004, 12, 5646.	1.7	6
126	Evaluation of PCA dimensionality reduction techniques in imaging spectroscopy for foreign object detection. , 2007, , .		6

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127	Optically Tunable Long-Period Fiber Grating on an Er ³⁺ Fiber. IEEE Photonics Technology Letters, 2007, 19, 732-734.	1.3	6
128	Support vector machines in hyperspectral imaging spectroscopy with application to material identification. , 2008, , .		6
129	Detection of methane at 1670-nm band with a hollow-core photonic bandgap fiber. , 2008, , .		6
130	Bragg Gratings Written in Tapered Solid-Core Photonic Crystal Fibers. IEEE Photonics Technology Letters, 2010, 22, 1048-1050.	1.3	6
131	Editorial Third Special Issue on Optical Fiber Sensors. IEEE Sensors Journal, 2012, 12, 5-7.	2.4	6
132	Measurement of displacement in the micrometer range using speckle pattern correlation in multimode fibers. , 2013, , .		6
133	Automatic strain detection in a Brillouin Optical Time Domain sensor using Principal Component Analysis and Artificial Neural Networks. , 2014, , .		6
134	An accurate photonic capacitance model for GaAs MESFETs. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 1193-1197.	2.9	5
135	Error Estimation in a Fiber-Optic Dual Waveband Ratio Pyrometer. IEEE Sensors Journal, 2004, 4, 288-293.	2.4	5
136	Polarization characteristics of a reflective erbium doped fiber amplifier with temperature changes at the Faraday rotator mirror. Optics Express, 2005, 13, 1368.	1.7	5
137	Methane sensing using multiple-coupling gaps in hollow-core photonic bandgap fibers. Proceedings of SPIE, 2008, , .	0.8	5
138	Sampled Fiber Bragg Grating spectral synthesis. Optics Express, 2012, 20, 22429.	1.7	5
139	Recovering a fiber Bragg grating axial strain distribution from its reflection spectrum. Optics Letters, 2013, 38, 2327.	1.7	5
140	Speckle POF sensor for detecting vital signs of patients. Proceedings of SPIE, 2014, , .	0.8	5
141	Complementary Use of Active Infrared Thermography and Optical Coherent Tomography in Non-destructive Testing Inspection of Ancient Marquetries. Journal of Nondestructive Evaluation, 2020, 39, 1.	1.1	5
142	Spectroscopic Approach for the On-Line Monitoring of Welding of Tanker Trucks. Applied Sciences (Switzerland), 2022, 12, 5022.	1.3	5
143	<title>New low-cost fiber optic accelerometer system for stator winding monitoring of hydroelectric generating machines</title>. , 1996, 2868, 510.		4
144	Model of an openable Faraday-effect hybrid-current optical transducer based on a square-shaped structure with internal mirror. Applied Optics, 1997, 36, 6242.	2.1	4

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145	<title>Optical fiber and integrated optics accelerometers for real-time vibration monitoring in harsh environments: in-lab and in-field characterization</title>. , 1998, 3483, 223.		4
146	High-temperature optical fiber transducer for a smart structure on iron-steel production industry. , 2001, , .		4
147	Interrogation of fibre Bragg gratings with a tilted fibre Bragg grating. Measurement Science and Technology, 2004, 15, 1596-1600.	1.4	4
148	Experimental characterization of light polarization in active erbium-doped fiber. Microwave and Optical Technology Letters, 2004, 42, 395-397.	0.9	4
149	Adaptive filters applied to the interrogation of photonic sensors. IEEE Sensors Journal, 2006, 6, 748-754.	2.4	4
150	Effective Index and Mode Width Sensitivities to Opto-Geometrical Parameters on Index-Guided Photonic Crystal Fibers. IEEE Photonics Technology Letters, 2008, 20, 205-207.	1.3	4
151	Fiber optics in structural health monitoring. , 2010, , .		4
152	30cm of spatial resolution using pre-excitation pulse BOTDA technique. Proceedings of SPIE, 2011, , .	0.8	4
153	Pre-processing techniques of thermal sequences applied to online welding monitoring. Quantitative InfraRed Thermography Journal, 2012, 9, 69-78.	2.1	4
154	New design for temperatureâ€“strain discrimination using fiber Bragg gratings embedded in laminated composites. Smart Materials and Structures, 2013, 22, 105011.	1.8	4
155	Application of Remote Power-by-Light Switching in a Simplified BOTDA Sensor Network. Sensors, 2013, 13, 17434-17444.	2.1	4
156	Experimental demonstration of a leakage monitoring system for large diameter water pipes using a fiber optic distributed sensor system. , 2014, , .		4
157	SLM Fiber Laser Stabilized at High Temperature. IEEE Photonics Technology Letters, 2016, 28, 693-696.	1.3	4
158	Broadband Continuously Tunable All-Fiber Laser Based on OPG for CARS Imaging. Journal of Lightwave Technology, 2021, 39, 2489-2496.	2.7	4
159	Micro-drilled optical fiber for enhanced laser strain sensors. , 2019, , .		4
160	Stress-induced optical waveguides written by an ultrafast laser in Nd ³⁺ , Y ³⁺ co-doped SrF ₂ crystals. Applied Optics, 2019, 58, 984.	0.9	4
161	Context-free hyperspectral image enhancement for wide-field optical biomarker visualization. Biomedical Optics Express, 2020, 11, 133.	1.5	4
162	Experimental characterization of tilted fiber Bragg gratings. , 0, , .		3

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163	3D near-field model for uniform slanted fiber gratings. Microwave and Optical Technology Letters, 2003, 38, 428-432.	0.9	3
164	Arc-welding process control based on back face thermography: application to the manufacturing of nuclear steam generators. , 2007, , .		3
165	Effects of temperature on high concentration erbium-doped fiber intrinsic parameters. Proceedings of SPIE, 2007, , .	0.8	3
166	Effect of humidity on optical fiber distributed sensor based on Brillouin scattering. Proceedings of SPIE, 2008, , .	0.8	3
167	High Temperature Long Period Grating Thermo-Mechanically Written. Sensors, 2009, 9, 5649-5654.	2.1	3
168	Feasibility study of imaging spectroscopy to monitor the quality of online welding. Applied Optics, 2009, 48, 4735.	2.1	3
169	Temperature sensing in multiple zones based on Brillouin fiber ring laser. Journal of Physics: Conference Series, 2009, 178, 012017.	0.3	3
170	Optical fibre spectroscopy sensor for the quantitative determination of industrial textile dyes. Proceedings of SPIE, 2009, , .	0.8	3
171	Angle transducer based on fiber Bragg gratings able for tunnel auscultation. Proceedings of SPIE, 2010, , .	0.8	3
172	Experimental characterization of the spectral effective index dependence of index-guided photonic crystal fibers. Measurement Science and Technology, 2010, 21, 055111.	1.4	3
173	Pipe flow speed sensor based on fiber Bragg gratings. , 2012, , .		3
174	Spectral and Optimized Marks for Qualitative Material Discrimination. IEEE Sensors Journal, 2012, 12, 230-236.	2.4	3
175	Bonding sensor based on simplified Fiber Bragg Grating spectral evolution. Composites Part B: Engineering, 2013, 53, 284-289.	5.9	3
176	Common frequency suppression method for fiber specklegram perimeter sensors. , 2015, , .		3
177	Fiber specklegram sensors sensitivities at high temperatures. Proceedings of SPIE, 2015, , .	0.8	3
178	Hessian analysis for the delineation of amorphous anomalies in optical coherence tomography images of the aortic wall. Biomedical Optics Express, 2016, 7, 1415.	1.5	3
179	Reflection-based fiber specklegram sensor. Proceedings of SPIE, 2016, , .	0.8	3
180	In-fiber Mach-Zehnder interferometer inscribed with femtosecond laser for high temperature sensing. Proceedings of SPIE, 2017, , .	0.8	3

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181	Diffractive Elements Inscribed at End-Fiber Surface by Femtosecond Laser. Journal of Lightwave Technology, 2019, 37, 4523-4530.	2.7	3
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