

Luis Rodriguez-Cobo

List of Publications by Year in descending order

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75
papers

875
citations

567281

15
h-index

501196

28
g-index

75
all docs

75
docs citations

75
times ranked

707
citing authors

#	ARTICLE	IF	CITATIONS
1	Photodynamic Therapy: A Compendium of Latest Reviews. <i>Cancers</i> , 2021, 13, 4447.	3.7	134
2	Light Technology for Efficient and Effective Photodynamic Therapy: A Critical Review. <i>Cancers</i> , 2021, 13, 3484.	3.7	86
3	Fiber Specklegram-Multiplexed Sensor. <i>Journal of Lightwave Technology</i> , 2015, 33, 2591-2597.	4.6	52
4	Optical fiber strain sensor with extended dynamic range based on specklegrams. <i>Sensors and Actuators A: Physical</i> , 2013, 203, 341-345.	4.1	49
5	Machine Learning for Turning Optical Fiber Specklegram Sensor into a Spatially-Resolved Sensing System. Proof of Concept. <i>Journal of Lightwave Technology</i> , 2018, 36, 3733-3738.	4.6	49
6	Simultaneous Temperature and Strain Discrimination in a Conventional BOTDA via Artificial Neural Networks. <i>Journal of Lightwave Technology</i> , 2018, 36, 2114-2121.	4.6	38
7	Dual-Wavelength Single-Longitudinal Mode Fiber Laser Using Phase-Shift Bragg Gratings. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 161-165.	2.9	36
8	Curvature Sensor Based on In-Fiber Mach-Zehnder Interferometer Inscribed With Femtosecond Laser. <i>Journal of Lightwave Technology</i> , 2017, 35, 4624-4628.	4.6	36
9	Low-cost fiber specklegram sensor for noncontact continuous patient monitoring. <i>Journal of Biomedical Optics</i> , 2017, 22, 037001.	2.6	29
10	Recent Advances in Biomedical Photonic Sensors: A Focus on Optical-Fibre-Based Sensing. <i>Sensors</i> , 2021, 21, 6469.	3.8	28
11	Slit Beam Shaping Technique for Femtosecond Laser Inscription of Enhanced Plane-by-Plane FBGs. <i>Journal of Lightwave Technology</i> , 2020, 38, 4526-4532.	4.6	24
12	Defect detection with CCD-spectrometer and photodiode-based arc-welding monitoring systems. <i>Journal of Materials Processing Technology</i> , 2011, 211, 2132-2139.	6.3	20
13	Optical Fiber Sensors by Direct Laser Processing: A Review. <i>Sensors</i> , 2020, 20, 6971.	3.8	20
14	Single-longitudinal mode laser structure based on a very narrow filtering technique. <i>Optics Express</i> , 2013, 21, 10289.	3.4	19
15	Single-Longitudinal-Mode Dual Wavelength-Switchable Fiber Laser Based on Superposed Fiber Bragg Gratings. <i>IEEE Photonics Journal</i> , 2015, 7, 1-7.	2.0	18
16	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.	4.7	15
17	Cylindrical and Powell Liquid Crystal Lenses With Positive-Negative Optical Power. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 1057-1060.	2.5	14
18	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.	1.8	13

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19	Single Longitudinal Mode Lasers by Using Artificially Controlled Backscattering Erbium Doped Fibers. IEEE Access, 2021, 9, 27428-27433.	4.2	13
20	All-Dielectric Metasurface Based on Complementary Split-Ring Resonators for Refractive Index Sensing. Photonics, 2022, 9, 130.	2.0	13
21	Embedded compaction pressure sensor based on Fiber Bragg Gratings. Measurement: Journal of the International Measurement Confederation, 2015, 68, 257-261.	5.0	11
22	Speckle characterization in multimode fibers for sensing applications. , 2012, , .		10
23	Engineering Aspheric Liquid Crystal Lenses by Using the Transmission Electrode Technique. Crystals, 2020, 10, 835.	2.2	10
24	A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. IEEE Sensors Journal, 2013, 13, 2279-2283.	4.7	9
25	Virtual FBGs Using Saturable Absorbers for Sensing with Fiber Lasers. Sensors, 2018, 18, 3593.	3.8	9
26	Reflection-based lab-in-fiber sensor integrated in a surgical needle for biomedical applications. Optics Letters, 2020, 45, 5242.	3.3	9
27	POF vibration sensor based on speckle pattern changes. Proceedings of SPIE, 2012, , .	0.8	8
28	Fiber Bragg grating sensors for on-line welding diagnostics. Journal of Materials Processing Technology, 2014, 214, 839-843.	6.3	8
29	Raw Material Classification by Means of Hyperspectral Imaging and Hierarchical Temporal Memories. IEEE Sensors Journal, 2012, 12, 2767-2775.	4.7	7
30	Feasibility study of Hierarchical Temporal Memories applied to welding diagnostics. Sensors and Actuators A: Physical, 2013, 204, 58-66.	4.1	7
31	Sampled Fiber Bragg Grating spectral synthesis. Optics Express, 2012, 20, 22429.	3.4	5
32	Recovering a fiber Bragg grating axial strain distribution from its reflection spectrum. Optics Letters, 2013, 38, 2327.	3.3	5
33	Speckle POF sensor for detecting vital signs of patients. Proceedings of SPIE, 2014, , .	0.8	5
34	Automatic Ankle Angle Detection by Integrated RGB and Depth Camera System. Sensors, 2021, 21, 1909.	3.8	5
35	Spectroscopic Approach for the On-Line Monitoring of Welding of Tanker Trucks. Applied Sciences (Switzerland), 2022, 12, 5022.	2.5	5
36	New design for temperatureâ€“strain discrimination using fiber Bragg gratings embedded in laminated composites. Smart Materials and Structures, 2013, 22, 105011.	3.5	4

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37	SLM Fiber Laser Stabilized at High Temperature. IEEE Photonics Technology Letters, 2016, 28, 693-696.	2.5	4
38	Automatic classification of steel plates based on laser induced breakdown spectroscopy and support vector machines. Proceedings of SPIE, 2010, , .	0.8	3
39	Pipe flow speed sensor based on fiber Bragg gratings. , 2012, , .		3
40	Bonding sensor based on simplified Fiber Bragg Grating spectral evolution. Composites Part B: Engineering, 2013, 53, 284-289.	12.0	3
41	Common frequency suppression method for fiber specklegram perimeter sensors. , 2015, , .		3
42	Fiber specklegram sensors sensitivities at high temperatures. Proceedings of SPIE, 2015, , .	0.8	3
43	Diffractive Elements Inscribed at End-Fiber Surface by Femtosecond Laser. Journal of Lightwave Technology, 2019, 37, 4523-4530.	4.6	3
44	Enhanced refractometer for aqueous solutions based on perfluorinated polymer optical fibres. Optics Express, 2022, 30, 1397.	3.4	3
45	High Performance Fiber Laser Resonator for Dual Band (C and L) Sensing. Journal of Lightwave Technology, 2022, 40, 5273-5279.	4.6	3
46	Quasi distributed hybrid Brillouin fiber laser sensor system. Measurement Science and Technology, 2012, 23, 085202.	2.6	2
47	Influence of the refractive index of liquids in the speckle pattern of multimode fibers. , 2012, , .		2
48	Fiber Bragg grating sensors for on-line welding diagnostics. Proceedings of SPIE, 2013, , .	0.8	2
49	Study of Fiber Bragg Grating Spectral Overlapping for Laser Structures. IEEE Photonics Technology Letters, 2014, 26, 1108-1111.	2.5	2
50	DBR Fiber Laser Sensor With Polarization Mode Suppression. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 551-554.	2.9	2
51	Interference of speckle patterns projected by multimode fibers. , 2015, , .		2
52	Optimized image calibration for spectroscopic systems. , 2011, , .		1
53	Integral temperature hybrid laser sensor. , 2012, , .		1
54	Quasidistributed fiber sensor for precast concrete structures monitoring. , 2012, , .		1

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55	Sensor System Based on a Brillouin Fiber Laser for Remote in Series Fiber Bragg Gratings Interrogation. IEEE Sensors Journal, 2012, 12, 3480-3482.	4.7	1
56	Focal beam position detection in a laser induced breakdown spectroscopy system by using a fiber Bragg grating sensor. Proceedings of SPIE, 2012, , .	0.8	1
57	Switchable fiber optic laser system for high and low-strain fiber optic sensors remote multiplexing. Proceedings of SPIE, 2013, , .	0.8	1
58	Optical strain gauge with high spatial resolution. Journal of Strain Analysis for Engineering Design, 2014, 49, 404-409.	1.8	1
59	Ultra-long and high-stability random laser based on EDF gain-media and Rayleigh scattering distributed mirror. Proceedings of SPIE, 2015, , .	0.8	1
60	Comparison of hierarchical temporal memories and artificial neural networks under noisy data. Journal of Intelligent Material Systems and Structures, 2015, 26, 1243-1250.	2.5	1
61	Feasibility Study of a Fiber Ring Laser Working on the SLM Regime in a BOTDA Sensor. IEEE Sensors Journal, 2018, 18, 4947-4953.	4.7	1
62	Slit Beam Shaping Technique for Femtosecond Laser Inscription of Symmetric Cladding Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	1
63	Astigmatism compensation for waveguide inscription in optical fiber by femtosecond lasers. , 2019, , .		1
64	Smart material using fiber Bragg grating transducers and shape memory alloy actuators. , 2012, , .		0
65	Temperature level optical fiber sensor using shape memory alloy wires. Proceedings of SPIE, 2012, , .	0.8	0
66	Simplified sensor design for temperature-strain discrimination using fiber Bragg gratings embedded in laminated composites. , 2013, , .		0
67	Polarimetric DBR fiber laser sensor for strain-temperature discrimination. Proceedings of SPIE, 2014, , .	0.8	0
68	Wavelength domain multiplexed fiber specklegram sensor. , 2014, , .		0
69	Fiber Bragg grating regeneration temperature in standard fibers. , 2015, , .		0
70	Automated Laser-induced Breakdown Spectroscopy setup for chemical mapping of archaeological shells. , 2015, , .		0
71	Optical Sensors: a comprehensive approach. , 2015, , .		0
72	Single longitudinal mode fiber ring laser. Optics and Laser Technology, 2018, 107, 361-365.	4.6	0

#	ARTICLE	IF	CITATIONS
73	LPG in perfluorinated GI-POF for concentration measurement in liquids. , 2013, , .		0
74	Comparative of Novel Method to Obtain Pulse from Differential Speckle Signal. , 2021, , .		0
75	How Light Source Affects to Speckle Pattern in Specklegram System. , 2021, , .		0