Luis Rodriguez-Cobo

List of Publications by Year
in descending order

75	875	567281 15	501196 28
papers	citations	h-index	g-index

75	75	75	707
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced refractometer for aqueous solutions based on perfluorinated polymer optical fibres. Optics Express, 2022, 30, 1397.	3.4	3
2	All-Dielectric Metasurface Based on Complementary Split-Ring Resonators for Refractive Index Sensing. Photonics, 2022, 9, 130.	2.0	13
3	High Performance Fiber Laser Resonator for Dual Band (C and L) Sensing. Journal of Lightwave Technology, 2022, 40, 5273-5279.	4.6	3
4	Spectroscopic Approach for the On-Line Monitoring of Welding of Tanker Trucks. Applied Sciences (Switzerland), 2022, 12, 5022.	2.5	5
5	Single Longitudinal Mode Lasers by Using Artificially Controlled Backscattering Erbium Doped Fibers. IEEE Access, 2021, 9, 27428-27433.	4.2	13
6	Automatic Ankle Angle Detection by Integrated RGB and Depth Camera System. Sensors, 2021, 21, 1909.	3.8	5
7	Light Technology for Efficient and Effective Photodynamic Therapy: A Critical Review. Cancers, 2021, 13, 3484.	3.7	86
8	Recent Advances in Biomedical Photonic Sensors: A Focus on Optical-Fibre-Based Sensing. Sensors, 2021, 21, 6469.	3.8	28
9	Photodynamic Therapy: A Compendium of Latest Reviews. Cancers, 2021, 13, 4447.	3.7	134
10	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
11	Comparative of Novel Method to Obtain Pulse from Differential Speckle Signal. , 2021, , .		0
12	How Light Source Affects to Speckle Pattern in Specklegram System. , 2021, , .		0
13	Cylindrical and Powell Liquid Crystal Lenses With Positive-Negative Optical Power. IEEE Photonics Technology Letters, 2020, 32, 1057-1060.	2.5	14
14	Engineering Aspheric Liquid Crystal Lenses by Using the Transmission Electrode Technique. Crystals, 2020, 10, 835.	2.2	10
15	Optical Fiber Sensors by Direct Laser Processing: A Review. Sensors, 2020, 20, 6971.	3.8	20
16	Slit Beam Shaping Technique for Femtosecond Laser Inscription of Enhanced Plane-by-Plane FBGs. Journal of Lightwave Technology, 2020, 38, 4526-4532.	4.6	24
17	Reflection-based lab-in-fiber sensor integrated in a surgical needle for biomedical applications. Optics Letters, 2020, 45, 5242.	3.3	9
18	Diffractive Elements Inscribed at End-Fiber Surface by Femtosecond Laser. Journal of Lightwave Technology, 2019, 37, 4523-4530.	4.6	3

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19	Astigmatism compensation for waveguide inscription in optical fiber by femtosecond lasers. , 2019, , .		1
20	Simultaneous Temperature and Strain Discrimination in a Conventional BOTDA via Artificial Neural Networks. Journal of Lightwave Technology, 2018, 36, 2114-2121.	4.6	38
21	Virtual FBGs Using Saturable Absorbers for Sensing with Fiber Lasers. Sensors, 2018, 18, 3593.	3.8	9
22	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
23	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.	4.6	49
24	Single longitudinal mode fiber ring laser. Optics and Laser Technology, 2018, 107, 361-365.	4.6	0
25	Low-cost fiber specklegram sensor for noncontact continuous patient monitoring. Journal of Biomedical Optics, 2017, 22, 037001.	2.6	29
26	Distributed High-Temperature Optical Fiber Sensor Based on a Brillouin Optical Time Domain Analyzer and Multimode Gold-Coated Fiber. IEEE Sensors Journal, 2017, 17, 2393-2397.	4.7	15
27	Curvature Sensor Based on In-Fiber Machâ€“Zehnder Interferometer Inscribed With Femtosecond Laser. Journal of Lightwave Technology, 2017, 35, 4624-4628.	4.6	36
28	SLM Fiber Laser Stabilized at High Temperature. IEEE Photonics Technology Letters, 2016, 28, 693-696.	2.5	4
29	Single-Longitudinal-Mode Dual Wavelength-Switchable Fiber Laser Based on Superposed Fiber Bragg Gratings. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	18
30	Ultra-long and high-stability random laser based on EDF gain-media and Rayleigh scattering distributed mirror. Proceedings of SPIE, 2015, , .	0.8	1
31	Common frequency suppression method for fiber specklegram perimeter sensors. , 2015, , .		3
32	Fiber specklegram sensors sensitivities at high temperatures. Proceedings of SPIE, 2015, , .	0.8	3
33	Fiber Bragg grating regeneration temperature in standard fibers. , 2015, , .		0
34	Embedded compaction pressure sensor based on Fiber Bragg Gratings. Measurement: Journal of the International Measurement Confederation, 2015, 68, 257-261.	5.0	11
35	Automated Laser-induced Breakdown Spectroscopy setup for chemical mapping of archaeological shells. , 2015, , .		0
36	Optical Sensors: a comprehensive approach. , 2015, , .		0

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37	Interference of speckle patterns projected by multimode fibers. , 2015, , .		2
38	Fiber Specklegram-Multiplexed Sensor. Journal of Lightwave Technology, 2015, 33, 2591-2597.	4.6	52
39	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
40	Optical strain gauge with high spatial resolution. Journal of Strain Analysis for Engineering Design, 2014, 49, 404-409.	1.8	1
41	Speckle POF sensor for detecting vital signs of patients. Proceedings of SPIE, 2014, , .	0.8	5
42	Polarimetric DBR fiber laser sensor for strain-temperature discrimination. Proceedings of SPIE, 2014, , .	0.8	0
43	Wavelength domain multiplexed fiber specklegram sensor. , 2014, , .		0
44	Study of Fiber Bragg Grating Spectral Overlapping for Laser Structures. IEEE Photonics Technology Letters, 2014, 26, 1108-1111.	2.5	2
45	Dual-Wavelength Single-Longitudinal Mode Fiber Laser Using Phase-Shift Bragg Gratings. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 161-165.	2.9	36
46	DBR Fiber Laser Sensor With Polarization Mode Suppression. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 551-554.	2.9	2
47	Fiber Bragg grating sensors for on-line welding diagnostics. Journal of Materials Processing Technology, 2014, 214, 839-843.	6.3	8
48	Feasibility study of Hierarchical Temporal Memories applied to welding diagnostics. Sensors and Actuators A: Physical, 2013, 204, 58-66.	4.1	7
49	New design for temperatureâ€“strain discrimination using fiber Bragg gratings embedded in laminated composites. Smart Materials and Structures, 2013, 22, 105011.	3.5	4
50	A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. IEEE Sensors Journal, 2013, 13, 2279-2283.	4.7	9
51	Bonding sensor based on simplified Fiber Bragg Grating spectral evolution. Composites Part B: Engineering, 2013, 53, 284-289.	12.0	3
52	Optical fiber strain sensor with extended dynamic range based on specklegrams. Sensors and Actuators A: Physical, 2013, 203, 341-345.	4.1	49
53	Switchable fiber optic laser system for high and low-strain fiber optic sensors remote multiplexing. Proceedings of SPIE, 2013, , .	0.8	1
54	Recovering a fiber Bragg grating axial strain distribution from its reflection spectrum. Optics Letters, 2013, 38, 2327.	3.3	5

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55	Single-longitudinal mode laser structure based on a very narrow filtering technique. Optics Express, 2013, 21, 10289.	3.4	19
56	Fiber Bragg grating sensors for on-line welding diagnostics. Proceedings of SPIE, 2013, , .	0.8	2
57	Simplified sensor design for temperature-strain discrimination using fiber Bragg gratings embedded in laminated composites. , 2013, , .		0
58	LPG in perfluorinated GI-POF for concentration measurement in liquids. , 2013, , .		0
59	Speckle characterization in multimode fibers for sensing applications. , 2012, , .		10
60	Normalization of laser-induced breakdown spectroscopy spectra using a plastic optical fiber light collector and acoustic sensor device. Applied Optics, 2012, 51, 8306.	1.8	13
61	Sampled Fiber Bragg Grating spectral synthesis. Optics Express, 2012, 20, 22429.	3.4	5
62	Quasi distributed hybrid Brillouin fiber laser sensor system. Measurement Science and Technology, 2012, 23, 085202.	2.6	2
63	Smart material using fiber Bragg grating transducers and shape memory alloy actuators. , 2012, , .		0
64	Temperature level optical fiber sensor using shape memory alloy wires. Proceedings of SPIE, 2012, , .	0.8	0
65	Influence of the refractive index of liquids in the speckle pattern of multimode fibers. , 2012, , .		2
66	Pipe flow speed sensor based on fiber Bragg gratings. , 2012, , .		3
67	Integral temperature hybrid laser sensor. , 2012, , .		1
68	Quasidistributed fiber sensor for precast concrete structures monitoring. , 2012, , .		1
69	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
70	Raw Material Classification by Means of Hyperspectral Imaging and Hierarchical Temporal Memories. IEEE Sensors Journal, 2012, 12, 2767-2775.	4.7	7
71	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
72	POF vibration sensor based on speckle pattern changes. Proceedings of SPIE, 2012, , .	0.8	8

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73	Optimized image calibration for spectroscopic systems. , 2011, , .		1
74	Defect detection with CCD-spectrometer and photodiode-based arc-welding monitoring systems. Journal of Materials Processing Technology, 2011, 211, 2132-2139.	6.3	20
75	Automatic classification of steel plates based on laser induced breakdown spectroscopy and support vector machines. Proceedings of SPIE, 2010, , .	0.8	3