

Carlos A J Gouveia

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

857
citations

687363

13
h-index

677142

22
g-index

38
all docs

38
docs citations

38
times ranked

1160
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a Uniform Metrological Assessment of Grating-Based Optical Fiber Sensors: From Refractometers to Biosensors. <i>Biosensors</i> , 2017, 7, 23.	4.7	281
2	Characterisation of a Nafion film by optical fibre Fabry-Pérot interferometry for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 99-105.	7.8	88
3	Fiber-Optic Interferometric Torsion Sensor Based on a Two-LP-Mode Operation in Birefringent Fiber. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1277-1279.	2.5	69
4	Temperature-Independent Curvature Sensor Using FBG Cladding Modes Based on a Core Misaligned Splice. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 804-806.	2.5	65
5	Evanescent wave DNA-aptamer biosensor based on long period gratings for the specific recognition of <i>E. coli</i> outer membrane proteins. <i>Biosensors and Bioelectronics</i> , 2014, 62, 227-233.	10.1	47
6	High resolution temperature independent refractive index measurement using differential white light interferometry. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1212-1217.	7.8	45
7	Simultaneous measurement of refractive index and temperature using multimode interference inside a high birefringence fiber loop mirror. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 717-723.	7.8	39
8	Biosensor for label-free DNA quantification based on functionalized LPGs. <i>Biosensors and Bioelectronics</i> , 2016, 84, 30-36.	10.1	37
9	Fabry-Pérot Cavity Based on a High-Birefringent Fiber Bragg Grating for Refractive Index and Temperature Measurement. <i>IEEE Sensors Journal</i> , 2012, 12, 17-21.	4.7	36
10	Simultaneous Measurement of Refractive Index and Temperature Using a Hybrid Fiber Bragg Grating/Long-Period Fiber Grating Configuration. <i>Fiber and Integrated Optics</i> , 2009, 28, 440-449.	2.5	32
11	Fiber Optic-Based Refractive Index Sensing at INESC Porto. <i>Sensors</i> , 2012, 12, 8371-8389.	3.8	29
12	Curvature and Vibration Sensing Based on Core Diameter Mismatch Structures. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 2120-2128.	4.7	21
13	High sensitivity LPG Mach-Zehnder sensor for real-time fuel conformity analysis. <i>Measurement Science and Technology</i> , 2013, 24, 015102.	2.6	14
14	A Review of Signal Processing Techniques for Ultrasonic Guided Wave Testing. <i>Metals</i> , 2022, 12, 936.	2.3	14
15	Magnetic field sensor with Terfenol-D thin-film coated FBG. <i>Proceedings of SPIE</i> , 2012, , .	0.8	9
16	Label-free optical biosensor for direct complex DNA detection using <i>Vitis vinifera</i> L.. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 92-97.	7.8	8
17	Measurement of acetic acid using a fibre Bragg grating interferometer. <i>Measurement Science and Technology</i> , 2009, 20, 125201.	2.6	4
18	Fiber optic intensity sensor referenced with a virtual delay line. <i>Optics Communications</i> , 2011, 284, 5665-5668.	2.1	4

#	ARTICLE	IF	CITATIONS
19	Characterization of a novel dissolved CO ₂ sensor for utilization in environmental monitoring and aquaculture industry. , 2013, , .		4
20	Digital Control of a White Light Interrogation System for Optical Fiber Interferometers. IEEE Sensors Journal, 2012, 12, 201-206.	4.7	3
21	Cladding modes FBG curvature sensor based on a core misaligned splice. Proceedings of SPIE, 2011, , .	0.8	2
22	Interferometric fibre-optic sensor for acetic acid measurement. Proceedings of SPIE, 2009, , .	0.8	1
23	Colorimetric and refractometric measurements of carbon dioxide. Proceedings of SPIE, 2011, , .	0.8	1
24	LPG based fiber optic sensor for carbon dioxide. , 2012, , .		1
25	Temperature independent refractive index measurement using white light interferometry. , 2012, , .		1
26	High refractive index and temperature sensitivity LPGs for high temperature operation. , 2013, , .		1
27	Remote curvature fiber sensors using core mismatch structures and OTDR based interrogation. , 2014, , .		1
28	Temperature independent torsion sensor based on modal interferometry in ultra high-birefringent photonic crystal fiber. , 2009, , .		0
29	Digital control of a white light system for interrogation of optical fiber interferometric sensors. Proceedings of SPIE, 2010, , .	0.8	0
30	Fiber optic intensity sensor referenced with virtual instrumentation for measuring displacement. , 2010, , .		0
31	Simultaneous measurement of strain and temperature using the FBG cladding modes based on a core misaligned splice. Proceedings of SPIE, 2011, , .	0.8	0
32	Simultaneous measurement of refractive index and temperature based on multimode interference inside a fiber loop mirror. , 2012, , .		0
33	Optical time-domain reflectometer based multiplexed sensing scheme for environmental sensing. , 2012, , .		0
34	The Douro Coalfield Fires of Portugal. , 2013, , 313-337.		0
35	Evanescent wave DNA-aptamer biosensor based on long period gratings for the specific recognition of <i>E. coli</i> . Proceedings of SPIE, 2013, , .	0.8	0
36	A long period grating-based platform for the detection of <i>E. coli</i> proteins. Proceedings of SPIE, 2013, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	An adjustable sensor platform using dual wavelength measurements for optical colorimetric sensitive films. , 2014, , .		0
38	Self-referenced label free biosensors based on differential fiber optic interferometry. , 2014, , .		0