

Carlos R Zamarreo

List of Publications by Citations

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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.

108
papers

2,460
citations

26
h-index

47
g-index

132
ext. papers

2,975
ext. citations

4.2
avg, IF

5.11
L-index

#	Paper	IF	Citations
108	Lossy Mode Resonance Generation With Indium-Tin-Oxide-Coated Optical Fibers for Sensing Applications. <i>Journal of Lightwave Technology</i> , 2010 , 28, 111-117	4	172
107	Design rules for lossy mode resonance based sensors. <i>Applied Optics</i> , 2012 , 51, 4298-307	1.7	125
106	Optical fiber pH sensor based on lossy-mode resonances by means of thin polymeric coatings. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 290-297	8.5	124
105	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. <i>ACS Sensors</i> , 2018 , 3, 936-943	9.2	122
104	Optical sensors based on lossy-mode resonances. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 174-185	8.5	113
103	Optical fiber pH sensors based on layer-by-layer electrostatic self-assembled Neutral Red. <i>Sensors and Actuators B: Chemical</i> , 2008 , 132, 305-311	8.5	100
102	Optical fiber refractometers based on lossy mode resonances supported by TiO ₂ coatings. <i>Applied Optics</i> , 2010 , 49, 3980-5	0.2	98
101	Tunable humidity sensor based on ITO-coated optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2010 , 146, 414-417	8.5	97
100	Optical Fibre Sensors Using Graphene-Based Materials: A Review. <i>Sensors</i> , 2017 , 17,	3.8	71
99	An antibacterial coating based on a polymer/sol-gel hybrid matrix loaded with silver nanoparticles. <i>Nanoscale Research Letters</i> , 2011 , 6, 305	5	64
98	A Comprehensive Review of Optical Fiber Refractometers: Toward a Standard Comparative Criterion. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900094	8.3	63
97	High sensitive and selective C-reactive protein detection by means of lossy mode resonance based optical fiber devices. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 176-181	11.8	63
96	Giant sensitivity of optical fiber sensors by means of lossy mode resonance. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 660-665	8.5	62
95	Generation of lossy mode resonances by deposition of high-refractive-index coatings on uncladded multimode optical fibers. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 095503	1.7	60
94	Utilization of white light interferometry in pH sensing applications by mean of the fabrication of nanostructured cavities. <i>Sensors and Actuators B: Chemical</i> , 2009 , 138, 613-618	8.5	55
93	ITO Coated Optical Fiber Refractometers Based on Resonances in the Infrared Region. <i>IEEE Sensors Journal</i> , 2010 , 10, 365-366	4	51
92	Optical fiber refractometers based on Lossy Mode Resonances by means of SnO ₂ sputtered coatings. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 154-159	8.5	49

91	High sensitive refractometers based on lossy mode resonances (LMRs) supported by ITO coated D-shaped optical fibers. <i>Optics Express</i> , 2015 , 23, 8045-50	3.3	47
90	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. <i>Sensors</i> , 2017 , 17,	3.8	37
89	Response time enhancement of pH sensing films by means of hydrophilic nanostructured coatings. <i>Sensors and Actuators B: Chemical</i> , 2007 , 128, 138-144	8.5	36
88	Optimization in nanocoated D-shaped optical fiber sensors. <i>Optics Express</i> , 2017 , 25, 10743-10756	3.3	35
87	Dual-Peak Resonance-Based Optical Fiber Refractometers. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1778-1780	2.2	35
86	Is there a frontier in sensitivity with Lossy mode resonance (LMR) based refractometers?. <i>Scientific Reports</i> , 2017 , 7, 10280	4.9	33
85	Resonance-based refractometric response of cladding-removed optical fibers with sputtered indium tin oxide coatings. <i>Sensors and Actuators B: Chemical</i> , 2012 , 175, 106-110	8.5	30
84	Generation of Surface Plasmon Resonance and Lossy Mode Resonance by thermal treatment of ITO thin-films. <i>Optics and Laser Technology</i> , 2015 , 69, 1-7	4.2	29
83	Experimental demonstration of lossy mode resonance generation for transverse-magnetic and transverse-electric polarizations. <i>Optics Letters</i> , 2013 , 38, 2481-3	3	29
82	Minimizing the photobleaching of self-assembled multilayers for sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 41-47	8.5	26
81	A fiber optic ammonia sensor using a universal pH indicator. <i>Sensors</i> , 2014 , 14, 4060-73	3.8	25
80	Volatile organic compounds optical fiber sensor based on lossy mode resonances. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 523-529	8.5	24
79	Optical Fiber Humidity Sensor Based on Lossy Mode Resonances Supported by TiO ₂ /PSS Coatings. <i>Procedia Engineering</i> , 2011 , 25, 1385-1388		24
78	Generation of Lossy Mode Resonances With Absorbing Thin-Films. <i>Journal of Lightwave Technology</i> , 2010 ,	4	24
77	Tunable optical fiber pH sensors based on TE and TM Lossy Mode Resonances (LMRs). <i>Sensors and Actuators B: Chemical</i> , 2016 , 231, 484-490	8.5	22
76	. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2412-2418	4	21
75	Resonances in coated long period fiber gratings and cladding removed multimode optical fibers: a comparative study. <i>Optics Express</i> , 2010 , 18, 20183-9	3.3	21
74	Optical fiber refractometers based on indium tin oxide coatings fabricated by sputtering. <i>Optics Letters</i> , 2012 , 37, 28-30	3	21

73	Fiber-optic Lossy Mode Resonance Sensors. <i>Procedia Engineering</i> , 2014 , 87, 3-8		20
72	Fiber-based early diagnosis of venous thromboembolic disease by label-free D-dimer detection. <i>Biosensors and Bioelectronics: X</i> , 2019 , 2, 100026	2.9	19
71	Sensing Properties of Indium Oxide Coated Optical Fiber Devices Based on Lossy Mode Resonances. <i>IEEE Sensors Journal</i> , 2012 , 12, 151-155	4	19
70	Aluminum doped zinc oxide (AZO) coated optical fiber LMR refractometers—An experimental demonstration. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 698-704	8.5	19
69	Optical fiber sensors based on Layer-by-Layer nanostructured films. <i>Procedia Engineering</i> , 2010 , 5, 1087-1090		17
68	A Comprehensive Review: Materials for the Fabrication of Optical Fiber Refractometers Based on Lossy Mode Resonance. <i>Sensors</i> , 2020 , 20,	3.8	16
67	Nanofabrication Techniques Applied to the Development of Novel Optical Fiber Sensors Based on Nanostructured Coatings. <i>IEEE Sensors Journal</i> , 2012 , 12, 2699-2710	4	16
66	Optical fiber pH sensor fabrication by means of indium tin oxide coated optical fiber refractometers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2705-2707		16
65	Fiber Optic Gas Sensors Based on Lossy Mode Resonances and Sensing Materials Used Therefor: A Comprehensive Review. <i>Sensors</i> , 2021 , 21,	3.8	16
64	Lossy mode resonance optical sensors based on indium-gallium-zinc oxide thin film. <i>Sensors and Actuators A: Physical</i> , 2019 , 290, 20-27	3.9	15
63	Gasohol quality control for real time applications by means of a multimode interference fiber sensor. <i>Sensors</i> , 2014 , 14, 17817-28	3.8	14
62	Smart Carbon Fiber Transtibial Prosthesis Based on Embedded Fiber Bragg Gratings. <i>IEEE Sensors Journal</i> , 2018 , 18, 1520-1527	4	13
61	Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , 2013 , 13, 1167-1171	4	13
60	Optical fiber humidity sensor based on surface plasmon resonance in the infra-red region. <i>Journal of Physics: Conference Series</i> , 2009 , 178, 012019	0.3	12
59	Agarose optical fibre humidity sensor based on electromagnetic resonance in the infra-red region. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2767-2769		12
58	Thrombin detection by means of an aptamer based sensitive coating fabricated onto LMR-based optical fiber refractometer 2012 ,		11
57	Lossy mode resonances supported by TiO ₂ -coated optical fibers. <i>Procedia Engineering</i> , 2010 , 5, 1099-1102		11
56	Fabrication of Optical Fiber Sensors for Measuring Ageing Transformer Oil in Wavelength. <i>IEEE Sensors Journal</i> , 2016 , 16, 4798-4802	4	11

55	Wind turbines lubricant gearbox degradation detection by means of a lossy mode resonance based optical fiber refractometer. <i>Microsystem Technologies</i> , 2016 , 22, 1619-1625	1.7	10
54	Optical Biosensors for the Detection of Rheumatoid Arthritis (RA) Biomarkers: A Comprehensive Review. <i>Sensors</i> , 2020 , 20,	3.8	9
53	LMR-Based Optical Fiber Refractometers for Oil Degradation Sensing Applications in Synthetic Lubricant Oils. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4537-4542	4	9
52	Sensors Based on Thin-Film Coated Cladding Removed Multimode Optical Fiber and Single-Mode Multimode Single-Mode Fiber: A Comparative Study. <i>Journal of Sensors</i> , 2015 , 2015, 1-7	2	9
51	Single and Multiphase Flow Characterization by Means of an Optical Fiber Bragg Grating Grid. <i>Journal of Lightwave Technology</i> , 2015 , 33, 1857-1862	4	9
50	Strain Mapping in Carbon-Fiber Prosthesis Using Optical Fiber Sensors. <i>IEEE Sensors Journal</i> , 2017 , 17, 3-4	4	8
49	Laterally selective adsorption of pH sensing coatings based on neutral red by means of the electric field directed layer-by-layer self assembly method. <i>Thin Solid Films</i> , 2009 , 517, 3776-3780	2.2	8
48	Lossy mode resonance sensors based on nanocoated multimode-coreless-multimode fibre. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 126955	8.5	8
47	Optical Fiber Bragg Grating Instrumentation Applied to Horse Gait Detection. <i>IEEE Sensors Journal</i> , 2018 , 18, 5778-5785	4	7
46	Exhaled breath optical fiber sensor based on LMRs for respiration monitoring 2014 ,		7
45	C-reactive protein aptasensor for early sepsis diagnosis by means of an optical fiber device 2013 ,		7
44	Sensing properties of ITO coated optical fibers to diverse VOCs. <i>Procedia Engineering</i> , 2010 , 5, 653-656		7
43	Electric discharge detection and localization using a distributed optical fiber vibration sensor. <i>Optical Fiber Technology</i> , 2020 , 58, 102266	2.4	6
42	Optical Fiber Refractometers with Tunable Sensitivity Based on Indium Tin Oxide Coatings. <i>Sensor Letters</i> , 2010 , 8, 744-746	0.9	5
41	Advances in Fiber Optic DNA-Based Sensors: A Review. <i>IEEE Sensors Journal</i> , 2021 , 21, 12679-12691	4	5
40	Optical Sensors for Corrosion Monitoring 2015 , 603-640		4
39	Humidity sensor fabricated by deposition of SnO ₂ layers onto optical fibers 2013 ,		4
38	LMR-based optical fiber refractometers based on transparent conducting and semiconducting oxide coatings: a comparative study 2010 ,		4

37	Lossy-mode resonance-based refractometers by means of indium oxide coatings fabricated onto optical fibers 2010 ,		4
36	Sensitivity enhancement experimental demonstration using a low cutoff wavelength SMS modified structure coated with a pH sensitive film. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 696-702	8.5	3
35	Optical Fiber Refractometers based on Indium Tin Oxide Coatings with Response in the Visible Spectral Region. <i>Procedia Engineering</i> , 2011 , 25, 499-502		3
34	Optical fiber humidity sensor based on surface plasmon resonance in the infra-red region 2009 ,		3
33	Thin-Film Resonance Supporting Coatings Deposited onto Optical Waveguides Towards the Fabrication of Sensing Devices. <i>Recent Patents on Materials Science</i> , 2011 , 4, 28-34	0.3	3
32	Rum adulteration detection using an optical fiber sensor based on multimodal interference (MMI). <i>Optica Pura Y Aplicada</i> , 2013 , 46, 345-352	1	3
31	Distributed optical fiber microphone 2017 ,		2
30	Nanocoated optical fibre for lossy mode resonance (LMR) sensors and filters 2015 ,		2
29	Fiber optic refractometer based in multimode interference effects (MMI) using Indium Tin Oxide (ITO) coating 2015 ,		2
28	D-shape optical fiber pH sensor based on Lossy Mode Resonances (LMRs) 2015 ,		2
27	Functionalized screen-printed PZT cantilevers for room temperature benzene detection. <i>Procedia Engineering</i> , 2011 , 25, 1077-1080		2
26	Lossy mode resonance-based optical fiber humidity sensor 2011 ,		2
25	Study on White Light Optical Fiber Interferometry for pH Sensor Applications 2007 ,		2
24	Lossy Mode Resonance Sensors based on Tungsten Oxide Thin Films 2020 ,		2
23	Beyond near-infrared lossy mode resonances with fluoride glass optical fiber. <i>Optics Letters</i> , 2021 , 46, 2892-2895	3	2
22	Optimization of Fiber Bragg Gratings Inscribed in Thin Films Deposited on D-Shaped Optical Fibers. <i>Sensors</i> , 2021 , 21,	3.8	2
21	Photonic sensors: from horse racing to horse power 2017 ,		1
20	Indium-Tin-Oxide coated optical fibers for temperature-viscosity sensing applications in synthetic lubricant oils 2015 ,		1

19	Coatings for Optical Fiber Sensors 2014 , 103-119		1
18	Fiber optic ammonia sensor using Bromocresol Green pH indicator 2014 ,		1
17	Optical fiber Bragg sensor based on Lossy Mode Resonances (LMRs) 2014 ,		1
16	D-shape optical fiber refractometer based on TM and TE lossy mode resonances 2014 ,		1
15	Optical Fiber Sensors Based on Lossy Mode Resonances. <i>Smart Sensors, Measurement and Instrumentation</i> , 2013 , 191-210	0.3	1
14	Optical fiber refractometers based on sputtered indium tin oxide coatings 2011 ,		1
13	Fiber-optic pH sensors fabrication based on selective deposition of Neutral Red 2009 ,		1
12	SnO ₂ based optical fiber refractometers 2012 ,		1
11	Two-Phase Flow Imaging by means of an 8x8 Optical Fiber Bragg Grating Grid 2014 ,		1
10	Twin lossy mode resonance on a single D-shaped optical fiber. <i>Optics Letters</i> , 2021 , 46, 3284-3287	3	1
9	Lossy Mode Resonance Fiber-Optic Biosensing Allowing Ultra-Low Detection Limit 2019 ,		1
8	Optical System Based on Multiplexed FBGs to Monitor Hand Movements. <i>IEEE Sensors Journal</i> , 2021 , 21, 14081-14089	4	1
7	Gas Detection Using LMR-Based Optical Fiber Sensors. <i>Proceedings (mdpi)</i> , 2018 , 2, 890	0.3	1
6	Low Cutoff Wavelength Etched SMS Structures Towards Verification of the Quality of Automotive Antifreeze. <i>IEEE Sensors Journal</i> , 2020 , 20, 11342-11349	4	0
5	Optical fiber thermo-refractometer.. <i>Optics Express</i> , 2022 , 30, 11036-11045	3.3	0
4	Optical Fiber Exhaled Breath Sensor Based on Lossy Mode Resonance Using a Graphene Oxide Sensitive Coating. <i>Proceedings (mdpi)</i> , 2017 , 1, 713	0.3	
3	BENZENE GAS SENSOR BASED ON SCREEN-PRINTED PZT CANTILEVERS. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2011 , 2011, 000111-000116	0.1	
2	Guest Editorial Special Issue on Advances and Current Trends in Sensing Physiological Parameters for Human Wellness and Patient Monitoring. <i>IEEE Sensors Journal</i> , 2021 , 21, 13965-13966	4	

- 1 Lossy Mode Resonances Supported by Nanoparticle-Based Thin-Films. *Lecture Notes in Electrical Engineering*, **2022**, 135-147

0.2