

# Miguel Hernaez

## 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.

61  
papers

1,721  
citations

24  
h-index

40  
g-index

69  
ext. papers

2,015  
ext. citations

3.4  
avg, IF

4.61  
L-index

#	Paper	IF	Citations
61	Lossy Mode Resonance Generation With Indium-Tin-Oxide-Coated Optical Fibers for Sensing Applications. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 111-117	4	172
60	Design rules for lossy mode resonance based sensors. <i>Applied Optics</i> , <b>2012</b> , 51, 4298-307	1.7	125
59	Optical fiber pH sensor based on lossy-mode resonances by means of thin polymeric coatings. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 155, 290-297	8.5	124
58	Optical sensors based on lossy-mode resonances. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 240, 174-185	8.5	113
57	Optical fiber refractometers based on lossy mode resonances supported by TiO <sub>2</sub> coatings. <i>Applied Optics</i> , <b>2010</b> , 49, 3980-5	0.2	98
56	Tunable humidity sensor based on ITO-coated optical fiber. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 146, 414-417	8.5	97
55	Optical Fibre Sensors Using Graphene-Based Materials: A Review. <i>Sensors</i> , <b>2017</b> , 17,	3.8	71
54	Generation of lossy mode resonances by deposition of high-refractive-index coatings on uncladded multimode optical fibers. <i>Journal of Optics (United Kingdom)</i> , <b>2010</b> , 12, 095503	1.7	60
53	Optical Fiber Humidity Sensors Using Nanostructured Coatings of SiO <sub>2</sub> Nanoparticles. <i>IEEE Sensors Journal</i> , <b>2008</b> , 8, 281-285	4	60
52	ITO Coated Optical Fiber Refractometers Based on Resonances in the Infrared Region. <i>IEEE Sensors Journal</i> , <b>2010</b> , 10, 365-366	4	51
51	Optical fiber refractometers based on Lossy Mode Resonances by means of SnO <sub>2</sub> sputtered coatings. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 154-159	8.5	49
50	Photonic Crystal Fiber Temperature Sensor Based on Quantum Dot Nanocoatings. <i>Journal of Sensors</i> , <b>2009</b> , 2009, 1-6	2	41
49	Simultaneous Measurement of Humidity and Temperature Based on an SiO <sub>2</sub> -Nanospheres Film Deposited on a Long-Period Grating In-Line With a Fiber Bragg Grating. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 162-166	4	38
48	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. <i>Sensors</i> , <b>2017</b> , 17,	3.8	37
47	Dual-Peak Resonance-Based Optical Fiber Refractometers. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 1778-1780	2.2	35
46	High-performance optical fiber humidity sensor based on lossy mode resonance using a nanostructured polyethylenimine and graphene oxide coating. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 286, 408-414	8.5	31
45	From superhydrophilic to superhydrophobic surfaces by means of polymeric Layer-by-Layer films. <i>Applied Surface Science</i> , <b>2015</b> , 351, 1081-1086	6.7	30

44	Resonance-based refractometric response of cladding-removed optical fibers with sputtered indium tin oxide coatings. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 175, 106-110	8.5	30
43	Generation of Surface Plasmon Resonance and Lossy Mode Resonance by thermal treatment of ITO thin-films. <i>Optics and Laser Technology</i> , <b>2015</b> , 69, 1-7	4.2	29
42	Comparative study of layer-by-layer deposition techniques for poly(sodium phosphate) and poly(allylamine hydrochloride). <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 539	5	28
41	Optical fiber resonance-based pH sensors using gold nanoparticles into polymeric layer-by-layer coatings. <i>Microsystem Technologies</i> , <b>2016</b> , 22, 1821-1829	1.7	27
40	Layer-by-Layer assembly of a water-insoluble platinum complex for optical fiber oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 207, 683-689	8.5	25
39	Lossy mode resonances toward the fabrication of optical fiber humidity sensors. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 014002	2	25
38	Optical Fiber Humidity Sensor Based on Lossy Mode Resonances Supported by TiO <sub>2</sub> /PSS Coatings. <i>Procedia Engineering</i> , <b>2011</b> , 25, 1385-1388		24
37	Generation of Lossy Mode Resonances With Absorbing Thin-Films. <i>Journal of Lightwave Technology</i> , <b>2010</b> ,	4	24
36	Resonances in coated long period fiber gratings and cladding removed multimode optical fibers: a comparative study. <i>Optics Express</i> , <b>2010</b> , 18, 20183-9	3.3	21
35	Optical fiber refractometers based on indium tin oxide coatings fabricated by sputtering. <i>Optics Letters</i> , <b>2012</b> , 37, 28-30	3	21
34	Fiber-optic Lossy Mode Resonance Sensors. <i>Procedia Engineering</i> , <b>2014</b> , 87, 3-8		20
33	Graphene Oxide in Lossy Mode Resonance-Based Optical Fiber Sensors for Ethanol Detection. <i>Sensors</i> , <b>2017</b> , 18,	3.8	19
32	Sensing Properties of Indium Oxide Coated Optical Fiber Devices Based on Lossy Mode Resonances. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 151-155	4	19
31	Optical fiber sensors based on Layer-by-Layer nanostructured films. <i>Procedia Engineering</i> , <b>2010</b> , 5, 1087-1090		17
30	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> , <b>2010</b> , 7, 2705-2707		16
29	Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 1167-1171	4	13
28	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> , <b>2010</b> , 7, 2767-2769		12
27	U-bend fibre optic pH sensors using layer-by-layer electrostatic self-assembly technique. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 178, 012046	0.3	11

26	Lossy mode resonances supported by TiO <sub>2</sub> -coated optical fibers. <i>Procedia Engineering</i> , <b>2010</b> , 5, 1099-1102		11
25	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> , <b>2015</b> , 2015, 1-7	2	9
24	Lossy Mode Resonance Generation by Graphene Oxide Coatings Onto Cladding-Removed Multimode Optical Fiber. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 6187-6192	4	8
23	Single-mode/multimode/single-mode and lossy mode resonance-based devices: a comparative study for sensing applications. <i>Microsystem Technologies</i> , <b>2016</b> , 22, 1633-1638	1.7	8
22	Exhaled breath optical fiber sensor based on LMRs for respiration monitoring <b>2014</b> ,		7
21	Sensing properties of ITO coated optical fibers to diverse VOCs. <i>Procedia Engineering</i> , <b>2010</b> , 5, 653-656		7
20	A COMPARATIVE STUDY IN THE SENSITIVITY OF OPTICAL FIBER REFRACTOMETERS BASED ON THE INCORPORATION OF GOLD NANOPARTICLES INTO LAYER-BY-LAYER FILMS. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2015</b> , 8, 822-841	0.4	6
19	Optical Fiber Refractometers with Tunable Sensitivity Based on Indium Tin Oxide Coatings. <i>Sensor Letters</i> , <b>2010</b> , 8, 744-746	0.9	5
18	Optical fiber refractometers based on localized surface plasmon resonance (LSPR) and lossy mode resonance (LMR) <b>2014</b> ,		4
17	Humidity sensor fabricated by deposition of SnO <sub>2</sub> layers onto optical fibers <b>2013</b> ,		4
16	LMR-based optical fiber refractometers based on transparent conducting and semiconducting oxide coatings: a comparative study <b>2010</b> ,		4
15	Lossy-mode resonance-based refractometers by means of indium oxide coatings fabricated onto optical fibers <b>2010</b> ,		4
14	Optical Fiber Refractometers based on Indium Tin Oxide Coatings with Response in the Visible Spectral Region. <i>Procedia Engineering</i> , <b>2011</b> , 25, 499-502		3
13	Optical fiber humidity sensor based on surface plasmon resonance in the infra-red region <b>2009</b> ,		3
12	Thin-Film Resonance Supporting Coatings Deposited onto Optical Waveguides Towards the Fabrication of Sensing Devices. <i>Recent Patents on Materials Science</i> , <b>2011</b> , 4, 28-34	0.3	3
11	Nanocoated optical fibre for lossy mode resonance (LMR) sensors and filters <b>2015</b> ,		2
10	Lossy mode resonance-based optical fiber humidity sensor <b>2011</b> ,		2
9	Coatings for Optical Fiber Sensors <b>2014</b> , 103-119		1

8	Optical Fiber Sensors Based on Lossy Mode Resonances. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2013</b> , 191-210	0.3	1
7	Sensitivity enhancement of a humidity sensor based on poly(sodium phosphate) and poly(allylamine hydrochloride) <b>2013</b> ,		1
6	Optical fiber refractometers based on sputtered indium tin oxide coatings <b>2011</b> ,		1
5	Fiber-optic pH sensors fabrication based on selective deposition of Neutral Red <b>2009</b> ,		1
4	SnO <sub>2</sub> based optical fiber refractometers <b>2012</b> ,		1
3	Fiber Optic Sensors Based on Nanostructured Materials. <i>Springer Series in Surface Sciences</i> , <b>2015</b> , 277-290.	0.4	
2	Optical Fiber Exhaled Breath Sensor Based on Lossy Mode Resonance Using a Graphene Oxide Sensitive Coating. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 713	0.3	
1	STUDY OF SUPERHYDROPHILIC NANOPARTICLE-BASED ULTRA-THIN FILMS TOWARDS THE DEVELOPMENT OF OPTICAL FIBER HUMIDITY SENSORS. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2009</b> , 2, 63-74	0.4	