Miguel Hernaez

List of Publications by Year in Descending Order

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	High-performance optical fiber humidity sensor based on lossy mode resonance using a nanostructured polyethylenimine and graphene oxide coating. *Sensors and Actuators B: Chemical*, **2019**, 286, 408-414	8.5	31
60	Lossy Mode Resonance Generation by Graphene Oxide Coatings Onto Cladding-Removed Multimode Optical Fiber. *IEEE Sensors Journal*, **2019**, 19, 6187-6192	4	8
59	Graphene Oxide in Lossy Mode Resonance-Based Optical Fiber Sensors for Ethanol Detection. *Sensors*, **2017**, 18,	3.8	19
58	Optical sensors based on lossy-mode resonances. *Sensors and Actuators B: Chemical*, **2017**, 240, 174-185	8.5	113
57	Optical Fiber Exhaled Breath Sensor Based on Lossy Mode Resonance Using a Graphene Oxide Sensitive Coating. *Proceedings (mdpi)*, **2017**, 1, 713	0.3	
56	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. *Sensors*, **2017**, 17,	3.8	37
55	Optical Fibre Sensors Using Graphene-Based Materials: A Review. *Sensors*, **2017**, 17,	3.8	71
54	Single-mode–multimode–single-mode and lossy mode resonance-based devices: a comparative study for sensing applications. *Microsystem Technologies*, **2016**, 22, 1633-1638	1.7	8
53	Optical fiber resonance-based pH sensors using gold nanoparticles into polymeric layer-by-layer coatings. *Microsystem Technologies*, **2016**, 22, 1821-1829	1.7	27
52	Fiber Optic Sensors Based on Nanostructured Materials. *Springer Series in Surface Sciences*, **2015**, 277-299	0.4	
51	Layer-by-Layer assembly of a water-insoluble platinum complex for optical fiber oxygen sensors. *Sensors and Actuators B: Chemical*, **2015**, 207, 683-689	8.5	25
50	Nanocoated optical fibre for lossy mode resonance (LMR) sensors and filters **2015**,		2
49	Sensors Based on Thin-Film Coated Cladding Removed Multimode Optical Fiber and Single-Mode Multimode Single-Mode Fiber: A Comparative Study. *Journal of Sensors*, **2015**, 2015, 1-7	2	9
48	From superhydrophilic to superhydrophobic surfaces by means of polymeric Layer-by-Layer films. *Applied Surface Science*, **2015**, 351, 1081-1086	6.7	30
47	Generation of Surface Plasmon Resonance and Lossy Mode Resonance by thermal treatment of ITO thin-films. *Optics and Laser Technology*, **2015**, 69, 1-7	4.2	29
46	A COMPARATIVE STUDY IN THE SENSITIVITY OF OPTICAL FIBER REFRACTOMETERS BASED ON THE INCORPORATION OF GOLD NANOPARTICLES INTO LAYERBY-LAYER FILMS. *International Journal on Smart Sensing and Intelligent Systems*, **2015**, 8, 822-841	0.4	6
45	Optical fiber refractometers based on Lossy Mode Resonances by means of SnO2 sputtered coatings. *Sensors and Actuators B: Chemical*, **2014**, 202, 154-159	8.5	49

44	Coatings for Optical Fiber Sensors **2014**, 103-119		1
43	Exhaled breath optical fiber sensor based on LMRs for respiration monitoring **2014**,		7
42	Optical fiber refractometers based on localized surface plasmon resonance (LSPR) and lossy mode resonance (LMR) **2014**,		4
41	Fiber-optic Lossy Mode Resonance Sensors. *Procedia Engineering*, **2014**, 87, 3-8		20
40	Comparative study of layer-by-layer deposition techniques for poly(sodium phosphate) and poly(allylamine hydrochloride). *Nanoscale Research Letters*, **2013**, 8, 539	5	28
39	Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. *IEEE Sensors Journal*, **2013**, 13, 1167-1171	4	13
38	Optical Fiber Sensors Based on Lossy Mode Resonances. *Smart Sensors, Measurement and Instrumentation*, **2013**, 191-210	0.3	1
37	Humidity sensor fabricated by deposition of SnO2layers onto optical fibers **2013**,		4
36	Sensitivity enhancement of a humidity sensor based on poly(sodium phosphate) and poly(allylamine hydrochloride) **2013**,		1
35	Resonance-based refractometric response of cladding-removed optical fibers with sputtered indium tin oxide coatings. *Sensors and Actuators B: Chemical*, **2012**, 175, 106-110	8.5	30
34	Sensing Properties of Indium Oxide Coated Optical Fiber Devices Based on Lossy Mode Resonances. *IEEE Sensors Journal*, **2012**, 12, 151-155	4	19
33	Design rules for lossy mode resonance based sensors. *Applied Optics*, **2012**, 51, 4298-307	1.7	125
32	Optical fiber refractometers based on indium tin oxide coatings fabricated by sputtering. *Optics Letters*, **2012**, 37, 28-30	3	21
31	Lossy mode resonances toward the fabrication of optical fiber humidity sensors. *Measurement Science and Technology*, **2012**, 23, 014002	2	25
30	SnO₂ based optical fiber refractometers **2012**,		1
29	Optical Fiber Refractometers based on Indium Tin Oxide Coatings with Response in the Visible Spectral Region. *Procedia Engineering*, **2011**, 25, 499-502		3
28	Optical Fiber Humidity Sensor Based on Lossy Mode Resonances Supported by TiO2/PSS Coatings. *Procedia Engineering*, **2011**, 25, 1385-1388		24
27	Lossy mode resonance-based optical fiber humidity sensor **2011**,		2

26	Optical fiber refractometers based on sputtered indium tin oxide coatings **2011**,		1
25	Simultaneous Measurement of Humidity and Temperature Based on an SiO$_{2}$ -Nanospheres Film Deposited on a Long-Period Grating In-Line With a Fiber Bragg Grating. *IEEE Sensors Journal*, **2011**, 11, 162-166	4	38
24	Optical fiber pH sensor based on lossy-mode resonances by means of thin polymeric coatings. *Sensors and Actuators B: Chemical*, **2011**, 155, 290-297	8.5	124
23	Thin-Film Resonance Supporting Coatings Deposited onto Optical Waveguides Towards the Fabrication of Sensing Devices. *Recent Patents on Materials Science*, **2011**, 4, 28-34	0.3	3
22	Generation of lossy mode resonances by deposition of high-refractive-index coatings on uncladded multimode optical fibers. *Journal of Optics (United Kingdom)*, **2010**, 12, 095503	1.7	60
21	LMR-based optical fiber refractometers based on transparent conducting and semiconducting oxide coatings: a comparative study **2010**,		4
20	Dual-Peak Resonance-Based Optical Fiber Refractometers. *IEEE Photonics Technology Letters*, **2010**, 22, 1778-1780	2.2	35
19	Optical fiber refractometers based on lossy mode resonances supported by TiO2 coatings. *Applied Optics*, **2010**, 49, 3980-5	0.2	98
18	Resonances in coated long period fiber gratings and cladding removed multimode optical fibers: a comparative study. *Optics Express*, **2010**, 18, 20183-9	3.3	21
17	Lossy Mode Resonance Generation With Indium-Tin-Oxide-Coated Optical Fibers for Sensing Applications. *Journal of Lightwave Technology*, **2010**, 28, 111-117	4	172
16	Generation of Lossy Mode Resonances With Absorbing Thin-Films. *Journal of Lightwave Technology*, **2010**,	4	24
15	ITO Coated Optical Fiber Refractometers Based on Resonances in the Infrared Region. *IEEE Sensors Journal*, **2010**, 10, 365-366	4	51
14	Lossy-mode resonance-based refractometers by means of indium oxide coatings fabricated onto optical fibers **2010**,		4
13	Sensing properties of ITO coated optical fibers to diverse VOCs. *Procedia Engineering*, **2010**, 5, 653-656		7
12	Optical fiber sensors based on Layer-by-Layer nanostructured films. *Procedia Engineering*, **2010**, 5, 1087-1090		17
11	Lossy mode resonances supported by TiO2 -coated optical fibers. *Procedia Engineering*, **2010**, 5, 1099-1102		11
10	Tunable humidity sensor based on ITO-coated optical fiber. *Sensors and Actuators B: Chemical*, **2010** , 146, 414-417	8.5	97
9	Optical fiber pH sensor fabrication by means of indium tin oxide coated optical fiber refractometers. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2010**, 7, 2705-2707		16

8	Agarose optical fibre humidity sensor based on electromagnetic resonance in the infra-red region. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2010**, 7, 2767-2769		12
7	Optical Fiber Refractometers with Tunable Sensitivity Based on Indium Tin Oxide Coatings. *Sensor Letters*, **2010**, 8, 744-746	0.9	5
6	Photonic Crystal Fiber Temperature Sensor Based on Quantum Dot Nanocoatings. *Journal of Sensors*, **2009**, 2009, 1-6	2	41
5	Fiber-optic pH sensors fabrication based on selective deposition of Neutral Red **2009**,		1
4	Optical fiber humidity sensor based on surface plasmon resonance in the infra-red region **2009**,		3
3	U-bend fibre optic pH sensors using layer-by-layer electrostatic self-assembly technique. *Journal of Physics: Conference Series*, **2009**, 178, 012046	0.3	11
2	STUDY OF SUPERHYDROPHILIC NANOPARTICLE-BASED ULTRA-THIN FILMS TOWARDS THE DEVELOPMENT OF OPTICAL FIBER HUMIDITY SENSORS. *International Journal on Smart Sensing and Intelligent Systems*, **2009**, 2, 63-74	0.4	
1	Optical Fiber Humidity Sensors Using Nanostructured Coatings of SiO$_{2}$ Nanoparticles. *IEEE Sensors Journal*, **2008**, 8, 281-285	4	60