

# Ignacio R Matias

## List of Publications by Year in Descending Order

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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.

326  
papers

7,020  
citations

44  
h-index

67  
g-index

387  
ext. papers

8,190  
ext. citations

3.9  
avg, IF

5.97  
L-index

#	Paper	IF	Citations
326	Multichannel Refractometer Based on Lossy Mode Resonances. <i>IEEE Sensors Journal</i> , <b>2022</b> , 22, 3181-3187		2
325	Fault Detection of Planetary Gears Based on Signal Space Constellations.. <i>Sensors</i> , <b>2022</b> , 22,	3.8	1
324	Optical fiber thermo-refractometer.. <i>Optics Express</i> , <b>2022</b> , 30, 11036-11045	3.3	0
323	Simultaneous Generation of Surface Plasmon and Lossy Mode Resonances in the Same Planar Platform.. <i>Sensors</i> , <b>2022</b> , 22,	3.8	2
322	Lossy Mode Resonances Supported by Nanoparticle-Based Thin-Films. <i>Lecture Notes in Electrical Engineering</i> , <b>2022</b> , 135-147	0.2	
321	Beyond near-infrared lossy mode resonances with fluoride glass optical fiber. <i>Optics Letters</i> , <b>2021</b> , 46, 2892-2895	3	2
320	Optimization of Fiber Bragg Gratings Inscribed in Thin Films Deposited on D-Shaped Optical Fibers. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
319	Trends in the Design of Intensity-Based Optical Fiber Biosensors (2010-2020). <i>Biosensors</i> , <b>2021</b> , 11,	5.9	2
318	Interdigital concept in photonic sensors based on an array of lossy mode resonances. <i>Scientific Reports</i> , <b>2021</b> , 11, 13228	4.9	4
317	Twin lossy mode resonance on a single D-shaped optical fiber. <i>Optics Letters</i> , <b>2021</b> , 46, 3284-3287	3	1
316	Optical Fiber Vacuum Sensor Based on Etched SMS Structure and PDMS Coating. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 9698-9705	4	2
315	Guest Editorial Special Issue on Advances in Fiber Optic Sensing Technologies. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 16-16	4	0
314	Lossy mode resonances generated in planar configuration for two-parameter sensing. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	1
313	Fiber Optic Gas Sensors Based on Lossy Mode Resonances and Sensing Materials Used Therefor: A Comprehensive Review. <i>Sensors</i> , <b>2021</b> , 21,	3.8	16
312	Intrusive Passive Optical Tapping Device. <i>IEEE Access</i> , <b>2021</b> , 9, 31627-31637	3.5	
311	Monitoring of Electric Buses within an Urban Smart City Environment. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	3
310	Dually nanocoated planar waveguides towards multi-parameter sensing. <i>Scientific Reports</i> , <b>2021</b> , 11, 3669	4.9	10

309	Optical Biosensors for the Detection of Rheumatoid Arthritis (RA) Biomarkers: A Comprehensive Review. <i>Sensors</i> , <b>2020</b> , 20,	3.8	9
308	Generation of lossy mode resonances with different nanocoatings deposited on coverslips. <i>Optics Express</i> , <b>2020</b> , 28, 288-301	3.3	15
307	Lossy Mode Resonance Sensors based on Tungsten Oxide Thin Films <b>2020</b> ,		2
306	Simultaneous Measurement of Refractive Index and Temperature using LMR on planar waveguide <b>2020</b> ,		2
305	Lossy Mode Resonance Enabling Ultra-Low Detection Limit for Fibre-Optic Biosensors (INVITED). <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 321-327	0.2	1
304	Generation of lossy mode resonances in a broadband range with multilayer coated coverslips optimized for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 325, 128795	8.5	9
303	Optical devices <b>2020</b> , 143-160		1
302	Biomechanical Sensors <b>2020</b> , 193-238		
301	Humidity, Gas, and Volatile Organic Compound Sensors <b>2020</b> , 367-398		
300	Detection in Harsh Environments <b>2020</b> , 441-476		0
299	From Refractometry to Biosensing with Optical Fibres <b>2020</b> , 331-366		1
298	Propagation of Light Through Optical Fibre <b>2020</b> , 17-48		1
297	Basic Detection Techniques <b>2020</b> , 91-124		
296	Optical Fibre Chemical Sensors <b>2020</b> , 239-288		
295	Fiber-based early diagnosis of venous thromboembolic disease by label-free D-dimer detection. <i>Biosensors and Bioelectronics: X</i> , <b>2019</b> , 2, 100026	2.9	19
294	Lossy mode resonance sensors based on lateral light incidence in nanocoated planar waveguides. <i>Scientific Reports</i> , <b>2019</b> , 9, 8882	4.9	23
293	Trends in the design of wavelength-based optical fibre biosensors (2008-2018). <i>Biosensors and Bioelectronics: X</i> , <b>2019</b> , 1, 100015	2.9	37
292	Multimode-Coreless-Multimode Fiber-Based Sensors: Theoretical and Experimental Study. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 3844-3850	4	13

291	Etched and Nanocoated Single-Mode Multimode Single-Mode (SMS) Fibers for Detection of Wind Turbine Gearbox Oil Degradation. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 4665-4673	4	5
290	Generation of Lossy Mode Resonances in Planar Waveguides Toward Development of Humidity Sensors. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 2300-2306	4	14
289	Lossy Mode Resonance Fiber-Optic Biosensing Allowing Ultra-Low Detection Limit <b>2019</b> ,		1
288	Smart Carbon Fiber Transtibial Prosthesis Based on Embedded Fiber Bragg Gratings. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 1520-1527	4	13
287	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> , <b>2018</b> , 262, 696-702	8.5	3
286	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. <i>ACS Sensors</i> , <b>2018</b> , 3, 936-943	9.2	122
285	Optimized Strain Long-Period Fiber Grating (LPFG) Sensors Operating at the Dispersion Turning Point. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 2240-2247	4	29
284	Fabrication of Long Period Gratings by Periodically Removing the Coating of Cladding-Etched Single Mode Optical Fiber Towards Optical Fiber Sensor Development. <i>Sensors</i> , <b>2018</b> , 18,	3.8	7
283	Detection of wind turbine gearbox oil degradation with etched single-mode multimode single-mode (SMS) fiber <b>2018</b> ,		1
282	[INVITED] Nanofabrication of phase-shifted Bragg gratings on the end facet of multimode fiber towards development of optical filters and sensors. <i>Optics and Laser Technology</i> , <b>2018</b> , 101, 49-56	4.2	2
281	Enhancement of luminescence-based optical fiber oxygen sensors by tuning the distance between fluorophore layers. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 248, 836-847	8.5	16
280	Fiber-Optic Immunosensor Based on an Etched SMS Structure. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2017</b> , 23, 314-321	3.8	17
279	A self-referenced optical colorimetric sensor based on silver and gold nanoparticles for quantitative determination of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 251, 624-631	8.5	44
278	Strain Mapping in Carbon-Fiber Prosthesis Using Optical Fiber Sensors. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 3-4	4	8
277	Fabrication of Bragg Gratings on the End Facet of Standard Optical Fibers by Sputtering the Same Material. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 212-219	4	5
276	Temperature Sensor Using a Multiwavelength Erbium-Doped Fiber Ring Laser. <i>Journal of Sensors</i> , <b>2017</b> , 2017, 1-6	2	3
275	Detection of Ethanol in Human Breath Using Optical Fiber Long Period Grating Coated with Metal-Organic Frameworks. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 474	0.3	1
274	Lossy Mode Resonance-based Aptasensor for CRP Detection. <i>Procedia Technology</i> , <b>2017</b> , 27, 159-160		2

273	Wavelength and Phase Detection Based SMS Fiber Sensors Optimized With Etching and Nanodeposition. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 3743-3749	4	26
272	Multimode Interference Fiber Sensors for the Monitoring of Gasoline/Ethanol Blends. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2017</b> , 329-346	0.3	3
271	High Sensitivity Optical Structures for Relative Humidity Sensing. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2017</b> , 55-79	0.3	1
270	Comparative study of polymeric matrices embedding oxygen-sensitive fluorophores by means of Layer-by-Layer nanosassembly. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 239, 1124-1133	8.5	8
269	Optical sensors based on lossy-mode resonances. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 240, 174-185	8.5	113
268	High sensitive and selective C-reactive protein detection by means of lossy mode resonance based optical fiber devices. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 93, 176-181	11.8	63
267	Distributed optical fiber microphone <b>2017</b> ,		2
266	Recent Developments in Fiber Optics Humidity Sensors. <i>Sensors</i> , <b>2017</b> , 17,	3.8	123
265	Optimization in nanocoated D-shaped optical fiber sensors. <i>Optics Express</i> , <b>2017</b> , 25, 10743-10756	3.3	35
264	Monitoring the Etching Process in LPFGs towards Development of Highly Sensitive Sensors. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 331	0.3	2
263	Humidity Sensor Based on Bragg Gratings Developed on the End Facet of an Optical Fiber by Sputtering of One Single Material. <i>Sensors</i> , <b>2017</b> , 17,	3.8	13
262	Luminescence-Based Optical Sensors Fabricated by Means of the Layer-by-Layer Nano-Assembly Technique. <i>Sensors</i> , <b>2017</b> , 17,	3.8	14
261	An Analysis Matrix for the Assessment of Smart City Technologies: Main Results of Its Application. <i>Systems</i> , <b>2017</b> , 5, 8	3	8
260	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. <i>Sensors</i> , <b>2017</b> , 17,	3.8	37
259	Increasing the Sensitivity of an Optic Level Sensor With a Wavelength and Phase Sensitive Single-Mode Multimode Single-Mode Fiber Structure. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 5515-5522	4	11
258	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
257	High sensitivity humidity sensor based on cladding-etched optical fiber and lossy mode resonances. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 233, 7-16	8.5	63
256	LMR-Based Optical Fiber Refractometers for Oil Degradation Sensing Applications in Synthetic Lubricant Oils. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 4537-4542	4	9

255	Wind turbines lubricant gearbox degradation detection by means of a lossy mode resonance based optical fiber refractometer. <i>Microsystem Technologies</i> , <b>2016</b> , 22, 1619-1625	1.7	10
254	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
253	Etched LPFGs in Reflective Configuration for Sensitivity and Attenuation Band Depth Increase. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 1077-1080	2.2	4
252	An Optimized Method Based on Digitalized Lissajous Curve to Determine Lifetime of Luminescent Materials on Optical Fiber Sensors. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-10	2	
251	Sensitivity optimization with cladding-etched long period fiber gratings at the dispersion turning point. <i>Optics Express</i> , <b>2016</b> , 24, 17680-5	3.3	38
250	Magnetic field optical sensor based on Lossy Mode Resonances <b>2016</b> ,		2
249	Fiber-optic immunosensor based on lossy mode resonances induced by indium tin oxide thin-films <b>2016</b> ,		2
248	Tunable optical fiber pH sensors based on TE and TM Lossy Mode Resonances (LMRs). <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 231, 484-490	8.5	22
247	Fabrication of Optical Fiber Sensors for Measuring Ageing Transformer Oil in Wavelength. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 4798-4802	4	11
246	Giant sensitivity of optical fiber sensors by means of lossy mode resonance. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 232, 660-665	8.5	62
245	Fiber Optic Sensors Based on Nanostructured Materials. <i>Springer Series in Surface Sciences</i> , <b>2015</b> , 277-290.4		
244	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
243	High sensitive refractometers based on lossy mode resonances (LMRs) supported by ITO coated D-shaped optical fibers. <i>Optics Express</i> , <b>2015</b> , 23, 8045-50	3.3	47
242	A comparative study between SMS interferometers and lossy mode resonance optical fiber devices for sensing applications <b>2015</b> ,		1
241	Indium-Tin-Oxide coated optical fibers for temperature-viscosity sensing applications in synthetic lubricant oils <b>2015</b> ,		1
240	Humidity sensor based on lossy mode resonances on an etched single mode fiber <b>2015</b> ,		1
239	High sensitivity extrinsic Fabry-Pérot interferometer for humidity sensing <b>2015</b> ,		1
238	Nanocoated optical fibre for lossy mode resonance (LMR) sensors and filters <b>2015</b> ,		2

237	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
236	. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 2412-2418	4	21
235	Optical fiber pH sensor based on gold nanoparticles into polymeric coatings <b>2015</b> ,		2
234	Fiber optic refractometer based in multimode interference effects (MMI) using Indium Tin Oxide (ITO) coating <b>2015</b> ,		2
233	Analysis of lossy mode resonances on thin-film coated cladding removed plastic fiber. <i>Optics Letters</i> , <b>2015</b> , 40, 4867-70	3	9
232	Urban technology analysis matrix. <i>Management of Environmental Quality</i> , <b>2015</b> , 26, 342-356	3.6	5
231	Magnetic field sensor based on a single mode-multimode-single mode optical fiber structure <b>2015</b> ,		2
230	Single and Multiphase Flow Characterization by Means of an Optical Fiber Bragg Grating Grid. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 1857-1862	4	9
229	D-shape optical fiber pH sensor based on Lossy Mode Resonances (LMRs) <b>2015</b> ,		2
228	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
227	Optical Fiber Current Transducer Using Lossy Mode Resonances for High Voltage Networks. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 2504-2510	4	17
226	A COMPARATIVE STUDY IN THE SENSITIVITY OF OPTICAL FIBER REFRACTOMETERS BASED ON THE INCORPORATION OF GOLD NANOPARTICLES INTO LAYERBY- LAYER FILMS. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2015</b> , 8, 822-841	0.4	6
225	METODOLOGÍA PARA DEFINIR UNA HERRAMIENTA DE EVALUACIÓN TECNOLÓGICA EN LAS SMART-CITIES. <i>Dyna (Spain)</i> , <b>2015</b> , 90, 285-293	0.4	2
224	Spectral width reduction in lossy mode resonance-based sensors by means of tapered optical fibre structures. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 200, 53-60	8.5	43
223	University-industry collaboration chairs: Initiatives at the Public University of Navarre <b>2014</b> ,		1
222	Improved multifrequency phase-modulation method that uses rectangular-wave signals to increase accuracy in luminescence spectroscopy. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5245-56	7.8	10
221	A comparative study of two different approaches for the incorporation of silver nanoparticles into layer-by-layer films. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 301	5	15
220	Refractometric sensors based on multimode interference in a thin-film coated single-mode-multimode-single-mode structure with reflection configuration. <i>Applied Optics</i> , <b>2014</b> , 53, 3913-9	1.7	30

219	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
218	Engineering international programs at the public university of Navarre: A satisfactory on-going experience in a context of industrial globalization <b>2014</b> ,		1
217	Luminescent Optical Fiber Oxygen Sensor following Layer-by-layer Method. <i>Procedia Engineering</i> , <b>2014</b> , 87, 987-990		6
216	Analysis Matrix for Smart Cities. <i>Future Internet</i> , <b>2014</b> , 6, 61-75	3.3	21
215	Gasohol quality control for real time applications by means of a multimode interference fiber sensor. <i>Sensors</i> , <b>2014</b> , 14, 17817-28	3.8	14
214	Analysis of efficient dense wireless sensor network deployment in Smart City environments <b>2014</b> ,		1
213	A fiber optic ammonia sensor using a universal pH indicator. <i>Sensors</i> , <b>2014</b> , 14, 4060-73	3.8	25
212	Analysis of women enrollment in Engineering programs at the Public University of Navarre <b>2014</b> ,		3
211	Exhaled breath optical fiber sensor based on LMRs for respiration monitoring <b>2014</b> ,		7
210	Fiber optic ammonia sensor using Bromocresol Green pH indicator <b>2014</b> ,		1
209	Optical fiber °Brix sensor based on Lossy Mode Resonances (LMRs) <b>2014</b> ,		1
208	Optical fiber humidity sensor based on a tapered fiber asymmetrically coated with indium tin oxide <b>2014</b> ,		5
207	Optical fiber refractometers based on localized surface plasmon resonance (LSPR) and lossy mode resonance (LMR) <b>2014</b> ,		4
206	D-shape optical fiber refractometer based on TM and TE lossy mode resonances <b>2014</b> ,		1
205	Fiber-optic Lossy Mode Resonance Sensors. <i>Procedia Engineering</i> , <b>2014</b> , 87, 3-8		20
204	Sensitivity enhancement in a multimode interference-based SMS fibre structure coated with a thin-film: Theoretical and experimental study. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 190, 363-369	8.5	27
203	Two-Phase Flow Imaging by means of an 8x8 Optical Fiber Bragg Grating Grid <b>2014</b> ,		1
202	Lossy mode resonance optical fiber sensor to detect organic vapors. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 187, 65-71	8.5	45



201	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
200	Multicolor Layer-by-Layer films using weak polyelectrolyte assisted synthesis of silver nanoparticles. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 438	5	24
199	Optimization of Sensors Based on Multimode Interference in Single-Mode/Multimode/Single-Mode Structure. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 3460-3468	4	21
198	Engineering outreach programs at the Public University of Navarre: A holistic approach <b>2013</b> ,		3
197	City & technology: An analysis matrix to serve citizens <b>2013</b> ,		2
196	Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 1167-1171	4	13
195	Electrospun nanofiber mats for evanescent optical fiber sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 176, 569-576	8.5	33
194	A Lossy Mode Resonance optical sensor using silver nanoparticles-loaded films for monitoring human breathing. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 187, 40-44	8.5	36
193	Optical Fiber Sensors Based on Lossy Mode Resonances. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2013</b> , 191-210	0.3	1
192	Humidity sensor fabricated by deposition of SnO <sub>2</sub> layers onto optical fibers <b>2013</b> ,		4
191	Detection of bacterial endotoxin in food: New planar interdigital sensors based approach. <i>Journal of Food Engineering</i> , <b>2013</b> , 114, 346-360	6	56
190	Sensitivity enhancement of a humidity sensor based on poly(sodium phosphate) and poly(allylamine hydrochloride) <b>2013</b> ,		1
189	High sensitivity optical fiber pH sensor using poly(acrylic acid) nanofibers <b>2013</b> ,		1
188	Impact of Wireless Sensor Networks in the advancement of Ambient Intelligence and Smart Cities <b>2013</b> ,		1
187	C-reactive protein aptasensor for early sepsis diagnosis by means of an optical fiber device <b>2013</b> ,		7
186	Experimental demonstration of lossy mode resonance generation for transverse-magnetic and transverse-electric polarizations. <i>Optics Letters</i> , <b>2013</b> , 38, 2481-3	3	29
185	Mode transition in complex refractive index coated single-mode-multimode-single-mode structure. <i>Optics Express</i> , <b>2013</b> , 21, 12668-82	3.3	22
184	Tunable electro-optic wavelength filter based on lossy-guided mode resonances. <i>Optics Express</i> , <b>2013</b> , 21, 31668-77	3.3	18

183	Development of a low mobility IEEE 802.15.4 compliant VANET system for urban environments. <i>Sensors</i> , <b>2013</b> , 13, 7065-78	3.8	14
182	Energy Management System proposal for efficient smart homes <b>2013</b> ,		3
181	Rum adulteration detection using an optical fiber sensor based on multimodal interference (MMI). <i>Optica Pura Y Aplicada</i> , <b>2013</b> , 46, 345-352	1	3
180	. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 3156-3162	4	10
179	Fiber-optic biosensor based on lossy mode resonances. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 174, 263-269	8.5	38
178	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
177	Tapered Single-Mode Optical Fiber pH Sensor Based on Lossy Mode Resonances Generated by a Polymeric Thin-Film. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 2598-2603	4	26
176	Home automation based sensor system for monitoring elderly people safety <b>2012</b> ,		3
175	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
174	Lossy mode resonances dependence on the geometry of a tapered monomode optical fiber. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 180, 25-31	3.9	13
173	Volatile organic compounds optical fiber sensor based on lossy mode resonances. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 173, 523-529	8.5	24
172	A novel luminescent optical fibre probe based on immobilized tridentate bis(phosphinic amide)-phosphine oxide for europium(III) ion aqueous detection in situ. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 173, 254-261	8.5	13
171	An antibacterial submicron fiber mat with in situ synthesized silver nanoparticles. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 126, 1228-1235	2.9	21
170	Nanofabrication Techniques Applied to the Development of Novel Optical Fiber Sensors Based on Nanostructured Coatings. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 2699-2710	4	16
169	Single-stage in situ synthesis of silver nanoparticles in antibacterial self-assembled overlays. <i>Colloid and Polymer Science</i> , <b>2012</b> , 290, 785-792	2.4	14
168	Design rules for lossy mode resonance based sensors. <i>Applied Optics</i> , <b>2012</b> , 51, 4298-307	1.7	125
167	Optical fiber refractometers based on indium tin oxide coatings fabricated by sputtering. <i>Optics Letters</i> , <b>2012</b> , 37, 28-30	3	21
166	Thrombin detection by means of an aptamer based sensitive coating fabricated onto LMR-based optical fiber refractometer <b>2012</b> ,		11

165	Lossy mode resonances toward the fabrication of optical fiber humidity sensors. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 014002	2	25
164	SnO <sub>2</sub> -based optical fiber refractometers <b>2012</b> ,		1
163	Editorial Third Special Issue on Optical Fiber Sensors. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 5-7	4	3
162	Humidity sensor based on silver nanoparticles embedded in a polymeric coating. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2012</b> , 5, 71-83	0.4	11
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154	Lossy Mode Resonance-based pH sensor using a tapered single mode optical fiber coated with a polymeric nanostructure <b>2011</b> ,		4
153	Optical fiber refractometers based on sputtered indium tin oxide coatings <b>2011</b> ,		1
152	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
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150	Analyses of performance of novel sensors with different coatings for detection of Lipopolysaccharide <b>2011</b> ,		1
149	Humidity sensor based on silver nanoparticles embedded in a polymeric coating <b>2011</b> ,		3
148	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

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132	Lossy mode resonances supported by TiO <sub>2</sub> -coated optical fibers. <i>Procedia Engineering</i> , <b>2010</b> , 5, 1099-1102		11
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123	Organic vapors detection using single mode fiber at third telecommunication window <b>2009</b> ,		1
122	Optical fiber humidity sensor based on surface plasmon resonance in the infra-red region <b>2009</b> ,		3
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