

Ignacio R Matias

List of Publications by Citations

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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	Optimization of sensitivity in Long Period Fiber Gratings with overlay deposition. <i>Optics Express</i> , 2005 , 13, 56-69	3.3	243
325	Optical fiber humidity sensor based on a tapered fiber coated with agarose gel. <i>Sensors and Actuators B: Chemical</i> , 2000 , 69, 127-131	8.5	199
324	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
323	Optical fiber humidity sensor using a nano FabryPerot cavity formed by the ionic self-assembly method. <i>Sensors and Actuators B: Chemical</i> , 1999 , 59, 54-59	8.5	145
322	Volatile Organic Compound Optical Fiber Sensors: A Review. <i>Sensors</i> , 2006 , 6, 1440-1465	3.8	126
321	Design rules for lossy mode resonance based sensors. <i>Applied Optics</i> , 2012 , 51, 4298-307	1.7	125
320	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
319	Recent Developments in Fiber Optics Humidity Sensors. <i>Sensors</i> , 2017 , 17,	3.8	123
318	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. <i>ACS Sensors</i> , 2018 , 3, 936-943	9.2	122
317	Optical sensors based on lossy-mode resonances. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 174-185	8.5	113
316	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
315	Optical fiber refractometers based on lossy mode resonances supported by TiO ₂ coatings. <i>Applied Optics</i> , 2010 , 49, 3980-5	0.2	98
314	Tunable humidity sensor based on ITO-coated optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2010 , 146, 414-417	8.5	97
313	Sensitivity optimization of tapered optical fiber humidity sensors by means of tuning the thickness of nanostructured sensitive coatings. <i>Sensors and Actuators B: Chemical</i> , 2007 , 122, 442-449	8.5	94
312	Deposition of overlays by electrostatic self-assembly in long-period fiber gratings. <i>Optics Letters</i> , 2005 , 30, 720-2	3	94
311	Design of Humidity Sensors Based on Tapered Optical Fibers. <i>Journal of Lightwave Technology</i> , 2006 , 24, 4329-4336	4	94
310	An experimental study about hydrogels for the fabrication of optical fiber humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 2003 , 96, 165-172	8.5	77

309	Optical fiber nanometer-scale Fabry-Perot interferometer formed by the ionic self-assembly monolayer process. <i>Optics Letters</i> , 1999 , 24, 596-8	3	73
308	Optical Fiber Humidity Sensors Using PVdF Electrospun Nanowebs. <i>IEEE Sensors Journal</i> , 2011 , 11, 2383-2387	4	64
307	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
306	High sensitivity humidity sensor based on cladding-etched optical fiber and lossy mode resonances. <i>Sensors and Actuators B: Chemical</i> , 2016 , 233, 7-16	8.5	63
305	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
304	Fiber-optic pH-sensors in long-period fiber gratings using electrostatic self-assembly. <i>Optics Letters</i> , 2007 , 32, 29-31	3	63
303	Detection of volatile organic compound vapors by using a vapochromic material on a tapered optical fiber. <i>Applied Physics Letters</i> , 2000 , 77, 2274-2276	3.4	63
302	Optical fiber sensor based on lutetium bisphthalocyanine for the detection of gases using standard telecommunication wavelengths. <i>Sensors and Actuators B: Chemical</i> , 2003 , 93, 153-158	8.5	62
301	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
300	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
299	Optical Fiber Humidity Sensors Using Nanostructured Coatings of SiO ₂ Nanoparticles. <i>IEEE Sensors Journal</i> , 2008 , 8, 281-285	4	60
298	Design of pH Sensors in Long-Period Fiber Gratings Using Polymeric Nanocoatings. <i>IEEE Sensors Journal</i> , 2007 , 7, 455-463	4	57
297	Nanodeposition of materials with complex refractive index in long-period fiber gratings. <i>Journal of Lightwave Technology</i> , 2005 , 23, 4192-4199	4	57
296	Detection of bacterial endotoxin in food: New planar interdigital sensors based approach. <i>Journal of Food Engineering</i> , 2013 , 114, 346-360	6	56
295	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
294	Simultaneous measurement of strain and temperature using a fiber Bragg grating and a thermochromic material. <i>Sensors and Actuators A: Physical</i> , 2002 , 101, 107-116	3.9	55
293	Volatile alcoholic compounds fibre optic nanosensor. <i>Sensors and Actuators B: Chemical</i> , 2006 , 115, 444-449	4.9	52
292	ITO Coated Optical Fiber Refractometers Based on Resonances in the Infrared Region. <i>IEEE Sensors Journal</i> , 2010 , 10, 365-366	4	51

291	Simultaneous measurement of humidity and temperature by combining a reflective intensity-based optical fiber sensor and a fiber Bragg grating. <i>IEEE Sensors Journal</i> , 2002 , 2, 482-487	4	50
290	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
289	Evanescent Field Fiber-Optic Sensors for Humidity Monitoring Based on Nanocoatings. <i>IEEE Sensors Journal</i> , 2007 , 7, 89-95	4	48
288	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
287	A fibre optic humidity sensor based on a long-period fibre grating coated with a thin film of SiO ₂ nanospheres. <i>Measurement Science and Technology</i> , 2009 , 20, 034002	2	47
286	Tapered optical fiber biosensor for the detection of anti-gliadin antibodies. <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 166-171	8.5	47
285	Lossy mode resonance optical fiber sensor to detect organic vapors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 187, 65-71	8.5	45
284	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> , 2017 , 251, 624-631	8.5	44
283	Nonadiabatic tapered single-mode fiber coated with humidity sensitive nanofilms. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 935-937	2.2	44
282	Quantum Dots-Based Optical Fiber Temperature Sensors Fabricated by Layer-by-Layer. <i>IEEE Sensors Journal</i> , 2006 , 6, 1378-1379	4	44
281	Spectral width reduction in lossy mode resonance-based sensors by means of tapered optical fibre structures. <i>Sensors and Actuators B: Chemical</i> , 2014 , 200, 53-60	8.5	43
280	Enhancement of sensitivity in long-period fiber gratings with deposition of low-refractive-index materials. <i>Optics Letters</i> , 2005 , 30, 2363-5	3	43
279	Influence on cladding mode distribution of overlay deposition on long-period fiber gratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006 , 23, 651-8	1.8	42
278	Photonic Crystal Fiber Temperature Sensor Based on Quantum Dot Nanocoatings. <i>Journal of Sensors</i> , 2009 , 2009, 1-6	2	41
277	Experimental study of a thermochromic material based optical fiber sensor for monitoring the temperature of the water in several applications. <i>Sensors and Actuators B: Chemical</i> , 2003 , 91, 231-240	8.5	40
276	Optical fiber strain gauge based on a tapered single-mode fiber. <i>Sensors and Actuators A: Physical</i> , 2000 , 79, 90-96	3.9	40
275	Fiber-optic biosensor based on lossy mode resonances. <i>Sensors and Actuators B: Chemical</i> , 2012 , 174, 263-269	8.5	38
274	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. <i>IEEE Sensors Journal</i> , 2011 , 11, 162-166	4	38

273	Sensitivity optimization with cladding-etched long period fiber gratings at the dispersion turning point. <i>Optics Express</i> , 2016 , 24, 17680-5	3.3	38
272	Trends in the design of wavelength-based optical fibre biosensors (2008-2018). <i>Biosensors and Bioelectronics: X</i> , 2019 , 1, 100015	2.9	37
271	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. <i>Sensors</i> , 2017 , 17,	3.8	37
270	A Lossy Mode Resonance optical sensor using silver nanoparticles-loaded films for monitoring human breathing. <i>Sensors and Actuators B: Chemical</i> , 2013 , 187, 40-44	8.5	36
269	Optical fiber sensing devices based on organic vapor indicators towards sensor array implementation. <i>Sensors and Actuators B: Chemical</i> , 2009 , 137, 139-146	8.5	36
268	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
267	An experimental study about the utilization of Liquicoat [®] solutions for the fabrication of pH optical fiber sensors. <i>Sensors and Actuators B: Chemical</i> , 2002 , 87, 289-295	8.5	36
266	Analysis of one-dimensional photonic band gap structures with a liquid crystal defect towards development of fiber-optic tunable wavelength filters. <i>Optics Express</i> , 2003 , 11, 430-6	3.3	36
265	Optical fibre sensors based on vapochromic gold complexes for environmental applications. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 535-541	8.5	36
264	Fourier modal methods for modeling optical dielectric waveguides. <i>Optical and Quantum Electronics</i> , 2005 , 37, 107-119	2.4	36
263	Tapered optical-fiber temperature sensor. <i>Microwave and Optical Technology Letters</i> , 1996 , 11, 93-95	1.2	36
262	Optimization in nanocoated D-shaped optical fiber sensors. <i>Optics Express</i> , 2017 , 25, 10743-10756	3.3	35
261	Dual-Peak Resonance-Based Optical Fiber Refractometers. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1778-1780	2.2	35
260	Two-Layer Nanocoatings in Long-Period Fiber Gratings for Improved Sensitivity of Humidity Sensors. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 394-400	2.6	35
259	ESA-based in-fiber nanocavity for hydrogen-peroxide detection. <i>IEEE Nanotechnology Magazine</i> , 2005 , 4, 187-193	2.6	35
258	Unbalance and harmonics detection in induction motors using an optical fiber sensor. <i>IEEE Sensors Journal</i> , 2006 , 6, 605-612	4	34
257	Electrospun nanofiber mats for evanescent optical fiber sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 569-576	8.5	33
256	Fiber-based 205-mW (27% efficiency) power-delivery system for an all-fiber network with optoelectronic sensor units. <i>Applied Optics</i> , 1999 , 38, 2463-6	1.7	33

255	Nanostructured optical fibre sensors for breathing airflow monitoring. <i>Measurement Science and Technology</i> , 2006 , 17, 1207-1210	2	32
254	New preparation of gold-silver complexes and optical fibre environmental sensors based on vapochromic [Au ₂ Ag ₂ (C ₆ F ₅) ₄ (phen) ₂] _n . <i>Applied Organometallic Chemistry</i> , 2005 , 19, 1232-1238	3.1	31
253	Refractometric sensors based on multimode interference in a thin-film coated single-mode-multimode-single-mode structure with reflection configuration. <i>Applied Optics</i> , 2014 , 53, 3913-9	1.7	30
252	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
251	Optimized Strain Long-Period Fiber Grating (LPFG) Sensors Operating at the Dispersion Turning Point. <i>Journal of Lightwave Technology</i> , 2018 , 36, 2240-2247	4	29
250	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
249	Experimental demonstration of lossy mode resonance generation for transverse-magnetic and transverse-electric polarizations. <i>Optics Letters</i> , 2013 , 38, 2481-3	3	29
248	Fiber-optic hydrogen peroxide nanosensor. <i>IEEE Sensors Journal</i> , 2005 , 5, 365-371	4	29
247	Comparative study of layer-by-layer deposition techniques for poly(sodium phosphate) and poly(allylamine hydrochloride). <i>Nanoscale Research Letters</i> , 2013 , 8, 539	5	28
246	Optical fiber resonance-based pH sensors using gold nanoparticles into polymeric layer-by-layer coatings. <i>Microsystem Technologies</i> , 2016 , 22, 1821-1829	1.7	27
245	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> , 2014 , 190, 363-369	8.5	27
244	Wavelength and Phase Detection Based SMS Fiber Sensors Optimized With Etching and Nanodeposition. <i>Journal of Lightwave Technology</i> , 2017 , 35, 3743-3749	4	26
243	Tapered Single-Mode Optical Fiber pH Sensor Based on Lossy Mode Resonances Generated by a Polymeric Thin-Film. <i>IEEE Sensors Journal</i> , 2012 , 12, 2598-2603	4	26
242	Minimizing the photobleaching of self-assembled multilayers for sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 41-47	8.5	26
241	Behavioral experimental studies of a novel vapochromic material towards development of optical fiber organic compounds sensor. <i>Sensors and Actuators B: Chemical</i> , 2001 , 76, 25-31	8.5	26
240	Tapered optical-fiber-based pressure sensor. <i>Optical Engineering</i> , 2000 , 39, 2241	1.1	26
239	Fabrication of microgratings on the ends of standard optical fibers by the electrostatic self-assembly monolayer process. <i>Optics Letters</i> , 2001 , 26, 131-3	3	26
238	Layer-by-Layer assembly of a water-insoluble platinum complex for optical fiber oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 683-689	8.5	25

237	A fiber optic ammonia sensor using a universal pH indicator. <i>Sensors</i> , 2014 , 14, 4060-73	3.8	25
236	Lossy mode resonances toward the fabrication of optical fiber humidity sensors. <i>Measurement Science and Technology</i> , 2012 , 23, 014002	2	25
235	Sensitivity improvement of a humidity sensor based on silica nanospheres on a long-period fiber grating. <i>Sensors</i> , 2009 , 9, 519-27	3.8	25
234	Multicolor Layer-by-Layer films using weak polyelectrolyte assisted synthesis of silver nanoparticles. <i>Nanoscale Research Letters</i> , 2013 , 8, 438	5	24
233	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
232	Optical Fiber Humidity Sensor Based on Lossy Mode Resonances Supported by TiO ₂ /PSS Coatings. <i>Procedia Engineering</i> , 2011 , 25, 1385-1388		24
231	Generation of Lossy Mode Resonances With Absorbing Thin-Films. <i>Journal of Lightwave Technology</i> , 2010 ,	4	24
230	Pyridine Vapors Detection by an Optical Fibre Sensor. <i>Sensors</i> , 2008 , 8, 847-859	3.8	24
229	Strategies for fabrication of hydrogen peroxide sensors based on electrostatic self-assembly (ESA) method. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 751-757	8.5	24
228	Lossy mode resonance sensors based on lateral light incidence in nanocoated planar waveguides. <i>Scientific Reports</i> , 2019 , 9, 8882	4.9	23
227	Fringe generation with non-uniformly coated long-period fiber gratings. <i>Optics Express</i> , 2007 , 15, 9326-403	4.3	23
226	Ammonia optical fiber sensor based on self-assembled zirconia thin films. <i>Smart Materials and Structures</i> , 2005 , 14, 739-744	3.4	23
225	Mode transition in complex refractive index coated single-mode-multimode-single-mode structure. <i>Optics Express</i> , 2013 , 21, 12668-82	3.3	22
224	. <i>IEEE Sensors Journal</i> , 2008 , 8, 1052-1054	4	22
223	Optically tunable fiber optic delay generator utilizing photochromic doped sol-gel gel-glass delay line. <i>Journal of Applied Physics</i> , 1995 , 77, 2804-2805	2.5	22
222	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
221	Optimization of Sensors Based on Multimode Interference in Single-Mode-Multimode-Single-Mode Structure. <i>Journal of Lightwave Technology</i> , 2013 , 31, 3460-3468	4	21
220	. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2412-2418	4	21

219	Analysis Matrix for Smart Cities. <i>Future Internet</i> , 2014 , 6, 61-75	3.3	21
218	An antibacterial submicron fiber mat with in situ synthesized silver nanoparticles. <i>Journal of Applied Polymer Science</i> , 2012 , 126, 1228-1235	2.9	21
217	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
216	Optical fiber refractometers based on indium tin oxide coatings fabricated by sputtering. <i>Optics Letters</i> , 2012 , 37, 28-30	3	21
215	Nanofilms on hollow core fiber-based structures: an optical study. <i>Journal of Lightwave Technology</i> , 2006 , 24, 2100-2107	4	21
214	Fiber-optic Lossy Mode Resonance Sensors. <i>Procedia Engineering</i> , 2014 , 87, 3-8		20
213	Application of gold complexes in the development of sensors for volatile organic compounds 2007 , 40, 225-233		20
212	Long-period fiber gratings with overlay of variable refractive index. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1893-1895	2.2	20
211	Development of an In-Fiber Nanocavity Towards Detection of Volatile Organic Gases. <i>Sensors</i> , 2006 , 6, 578-592	3.8	20
210	Study of indicators for the development of fluorescence based optical fiber temperature sensors. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 425-432	8.5	20
209	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
208	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
207	Optical fiber gas sensor based on self-assembled gratings. <i>Journal of Lightwave Technology</i> , 2001 , 19, 1932-1937	4	19
206	Tunable electro-optic wavelength filter based on lossy-guided mode resonances. <i>Optics Express</i> , 2013 , 21, 31668-77	3.3	18
205	Optical fiber gas sensors based on hydrophobic alumina thin films formed by the electrostatic self-assembly monolayer process. <i>IEEE Sensors Journal</i> , 2003 , 3, 56-61	4	18
204	Fiber-Optic Immunosensor Based on an Etched SMS Structure. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 314-321	3.8	17
203	Optical Fiber Current Transducer Using Lossy Mode Resonances for High Voltage Networks. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2504-2510	4	17
202	Optical fiber sensors based on Layer-by-Layer nanostructured films. <i>Procedia Engineering</i> , 2010 , 5, 1087-1090		17

201	Study and Optimization of Self-Assembled Polymeric Multilayer Structures with Neutral Red for pH Sensing Applications. <i>Journal of Sensors</i> , 2008 , 2008, 1-7	2	17
200	Indicator immobilization on Fabry-Perot nanocavities towards development of fiber optic sensors. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 158-163	8.5	17
199	Enhancement of luminescence-based optical fiber oxygen sensors by tuning the distance between fluorophore layers. <i>Sensors and Actuators B: Chemical</i> , 2017 , 248, 836-847	8.5	16
198	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
197	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
196	Fiber optic ammonia sensing employing novel thermoplastic polyurethane membranes. <i>Sensors and Actuators B: Chemical</i> , 2005 , 105, 419-424	8.5	16
195	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
194	A comparative study of two different approaches for the incorporation of silver nanoparticles into layer-by-layer films. <i>Nanoscale Research Letters</i> , 2014 , 9, 301	5	15
193	Fiber optic glucose sensor based on bionanofilms. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 633-639	8.5	15
192	Fiber optic glucose biosensor. <i>Optical Engineering</i> , 2006 , 45, 104401	1.1	15
191	Comparative study of the modeling of three-dimensional photonic bandgap structures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003 , 20, 644-54	1.8	15
190	Generation of lossy mode resonances with different nanocoatings deposited on coverslips. <i>Optics Express</i> , 2020 , 28, 288-301	3.3	15
189	Luminescence-Based Optical Sensors Fabricated by Means of the Layer-by-Layer Nano-Assembly Technique. <i>Sensors</i> , 2017 , 17,	3.8	14
188	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
187	Single-stage in situ synthesis of silver nanoparticles in antibacterial self-assembled overlays. <i>Colloid and Polymer Science</i> , 2012 , 290, 785-792	2.4	14
186	Development of a low mobility IEEE 802.15.4 compliant VANET system for urban environments. <i>Sensors</i> , 2013 , 13, 7065-78	3.8	14
185	An antibacterial surface coating composed of PAH/SiO ₂ nanostructured films by layer by layer. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2774-2777		14
184	Fiber-Optic Chemical Nanosensors by Electrostatic Molecular Self- Assembly. <i>Current Analytical Chemistry</i> , 2008 , 4, 341-355	1.7	14

183	Spectral evolution with incremental nanocoating of long period fiber gratings. <i>Optics Express</i> , 2006 , 14, 11972-81	3.3	14
182	Vibration monitoring in electrical engines using an in-line fiber etalon. <i>Sensors and Actuators A: Physical</i> , 2006 , 132, 506-515	3.9	14
181	Deposition of coatings on long-period fiber gratings: tunnel effect analogy. <i>Optical and Quantum Electronics</i> , 2006 , 38, 655-665	2.4	14
180	Polymeric thin films of controlled complex refractive index formed by the electrostatic self-assembled monolayer process. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 1319-1321	2.2	14
179	Dynamic behavior of sol-gel gel-glass based thermochromic material applied toward development of practical optical temperature sensors. <i>Optical Engineering</i> , 1998 , 37, 2620	1.1	14
178	Generation of Lossy Mode Resonances in Planar Waveguides Toward Development of Humidity Sensors. <i>Journal of Lightwave Technology</i> , 2019 , 37, 2300-2306	4	14
177	Multimode-Coreless-Multimode Fiber-Based Sensors: Theoretical and Experimental Study. <i>Journal of Lightwave Technology</i> , 2019 , 37, 3844-3850	4	13
176	Smart Carbon Fiber Transtibial Prosthesis Based on Embedded Fiber Bragg Gratings. <i>IEEE Sensors Journal</i> , 2018 , 18, 1520-1527	4	13
175	Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , 2013 , 13, 1167-1171	4	13
174	Humidity Sensor Based on Bragg Gratings Developed on the End Facet of an Optical Fiber by Sputtering of One Single Material. <i>Sensors</i> , 2017 , 17,	3.8	13
173	Lossy mode resonances dependence on the geometry of a tapered monomode optical fiber. <i>Sensors and Actuators A: Physical</i> , 2012 , 180, 25-31	3.9	13
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> , 2012 , 173, 254-261	8.5	13
171	Influence of Waist Length in Lossy Mode Resonances Generated With Coated Tapered Single-Mode Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1579-1581	2.2	13
170	Experimental results toward development of humidity sensors by using a hygroscopic material on biconically tapered optical fiber 1998 ,		13
169	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
168	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
167	Low-cost optical amplitude modulator based on a tapered single-mode optical fiber. <i>Applied Optics</i> , 2001 , 40, 228-34	1.7	12
166	Optimization of single mode fibre sensors to detect organic vapours. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 388-394	8.5	11

165	Thrombin detection by means of an aptamer based sensitive coating fabricated onto LMR-based optical fiber refractometer 2012 ,		11
164	Lossy mode resonances supported by TiO ₂ -coated optical fibers. <i>Procedia Engineering</i> , 2010 , 5, 1099-1102		11
163	Encapsulated Quantum Dot Nanofilms Inside Hollow Core Optical Fibers for Temperature Measurement. <i>IEEE Sensors Journal</i> , 2008 , 8, 1368-1374	4	11
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- 3 An Optimized Method Based on Digitalized Lissajous Curve to Determine Lifetime of Luminescent Materials on Optical Fiber Sensors. *Journal of Sensors*, **2016**, 2016, 1-10 2
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