Ignacio R Matias

List of Publications by Year
in descending order

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Version: 2024-02-01

374 papers	9,191 citations	41258 49 h-index	64668 79 g-index
387 all docs	387 docs citations	387 times ranked	4973 citing authors

#	Article	IF	Citations
1	Lab on Fiber Technology Towards Advanced and Multifunctional Point-of-Care Platforms for Precision Medicine. , 2023, , 504-527.		0
2	Lossy Mode Resonances Generated in Planar Configuration for Two-Parameter Sensing. IEEE Sensors Journal, 2022, 22, 11264-11270.	2.4	1
3	Monitoring of Electric Buses Within an Urban Smart City Environment. IEEE Sensors Journal, 2022, 22, 11364-11372.	2.4	10
4	Multichannel Refractometer Based on Lossy Mode Resonances. IEEE Sensors Journal, 2022, 22, 3181-3187.	2.4	8
5	Fault Detection of Planetary Gears Based on Signal Space Constellations. Sensors, 2022, 22, 366.	2.1	3
6	Optical fiber thermo-refractometer. Optics Express, 2022, 30, 11036.	1.7	11
7	Simultaneous Generation of Surface Plasmon and Lossy Mode Resonances in the Same Planar Platform. Sensors, 2022, 22, 1505.	2.1	9
8	Lossy Mode Resonance Based Microfluidic Platform Developed on Planar Waveguide for Biosensing Applications. Biosensors, 2022, 12, 403.	2.3	11
9	Mode Transitions and Thickness Measurements During Deposition of Nanoscale TiO₂ Coatings on Tilted Fiber Bragg Gratings. Journal of Lightwave Technology, 2022, 40, 6006-6012.	2.7	5
10	Ultrahigh Sensitive Detection of Tau Protein as Alzheimer's Biomarker via Microfluidics and Nanofunctionalized Optical Fiber Sensors. Advanced Photonics Research, 2022, 3, .	1.7	28
11	Optical Fiber Vacuum Sensor Based on Etched SMS Structure and PDMS Coating. IEEE Sensors Journal, 2021, 21, 9698-9705.	2.4	5
12	Guest Editorial Special Issue on Advances in Fiber Optic Sensing Technologies. IEEE Sensors Journal, 2021, 21, 16-16.	2.4	6
13	Fiber Optic Gas Sensors Based on Lossy Mode Resonances and Sensing Materials Used Therefor: A Comprehensive Review. Sensors, 2021, 21, 731.	2.1	37
14	Intrusive Passive Optical Tapping Device. IEEE Access, 2021, 9, 31627-31637.	2.6	0
15	Dually nanocoated planar waveguides towards multi-parameter sensing. Scientific Reports, 2021, 11, 3669.	1.6	22
16	Beyond near-infrared lossy mode resonances with fluoride glass optical fiber. Optics Letters, 2021, 46, 2892.	1.7	6
17	Optimization of Fiber Bragg Gratings Inscribed in Thin Films Deposited on D-Shaped Optical Fibers. Sensors, 2021, 21, 4056.	2.1	7
18	Trends in the Design of Intensity-Based Optical Fiber Biosensors (2010â€“2020). Biosensors, 2021, 11, 197.	2.3	22

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19	Interdigital concept in photonic sensors based on an array of lossy mode resonances. Scientific Reports, 2021, 11, 13228.	1.6	13
20	Twin lossy mode resonance on a single D-shaped optical fiber. Optics Letters, 2021, 46, 3284.	1.7	7
21	Thin film coated D-shaped Fiber regenerable biosensor. , 2021, , .		0
22	Optical devices. , 2020, , 143-160.		1
23	Optical Biosensors for the Detection of Rheumatoid Arthritis (RA) Biomarkers: A Comprehensive Review. Sensors, 2020, 20, 6289.	2.1	15
24	Generation of lossy mode resonances in a broadband range with multilayer coated coverslips optimized for humidity sensing. Sensors and Actuators B: Chemical, 2020, 325, 128795.	4.0	13
25	Generation of lossy mode resonances with different nanocoatings deposited on coverslips. Optics Express, 2020, 28, 288.	1.7	24
26	Lossy Mode Resonance Excitation in Fiber-Optics: Applications in Biosensing. , 2020, , .		0
27	Rheumatoid Arthritis miRNA biomarker detection by means of LMR based fiber-optic biosensor. , 2020, , .		2
28	Lossy Mode Resonance Sensors based on Tungsten Oxide Thin Films. , 2020, , .		4
29	Simultaneous Measurement of Refractive Index and Temperature using LMR on planar waveguide. , 2020, , .		2
30	Etched and Nanocoated Single-Mode Multimode Single-Mode (SMS) Fibers for Detection of Wind Turbine Gearbox Oil Degradation. Journal of Lightwave Technology, 2019, 37, 4665-4673.	2.7	7
31	Fiber-based early diagnosis of venous thromboembolic disease by label-free D-dimer detection. Biosensors and Bioelectronics: X, 2019, 2, 100026.	0.9	37
32	Lossy mode resonance sensors based on lateral light incidence in nanocoated planar waveguides. Scientific Reports, 2019, 9, 8882.	1.6	43
33	Trends in the design of wavelength-based optical fibre biosensors (2008â€“2018). Biosensors and Bioelectronics: X, 2019, 1, 100015.	0.9	65
34	Multimode-Coreless-Multimode Fiber-Based Sensors: Theoretical and Experimental Study. Journal of Lightwave Technology, 2019, 37, 3844-3850.	2.7	20
35	Generation of Lossy Mode Resonances in Planar Waveguides Toward Development of Humidity Sensors. Journal of Lightwave Technology, 2019, 37, 2300-2306.	2.7	21
36	Optical fiber vacuum sensor based on modal interferometer and PDMS coating. , 2019, , .		0

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37	Short single strand DNA detection by means of Lossy Mode Resonance based fiber-optic sensor. , 2019, , .		0
38	Lossy Mode Resonance Fiber-Optic Biosensing Allowing Ultra-Low Detection Limit. , 2019, , .		1
39	Fiber-optics: a new route towards ultra-low detection limit label-free biosensing. , 2019, , .		0
40	Smart Carbon Fiber Transtibial Prosthesis Based on Embedded Fiber Bragg Gratings. IEEE Sensors Journal, 2018, 18, 1520-1527.	2.4	21
41	Sensitivity enhancement experimental demonstration using a low cutoff wavelength SMS modified structure coated with a pH sensitive film. Sensors and Actuators B: Chemical, 2018, 262, 696-702.	4.0	4
42	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. ACS Sensors, 2018, 3, 936-943.	4.0	193
43	Optimized Strain Long-Period Fiber Grating (LPFG) Sensors Operating at the Dispersion Turning Point. Journal of Lightwave Technology, 2018, 36, 2240-2247.	2.7	40
44	[INVITED] Nanofabrication of phase-shifted Bragg gratings on the end facet of multimode fiber towards development of optical filters and sensors. Optics and Laser Technology, 2018, 101, 49-56.	2.2	2
45	Optical Fiber Immunosensor Based on Long Period Gratings Built by Periodic Laser Ablation. , 2018, , .		1
46	Fabrication of Long Period Gratings by Periodically Removing the Coating of Cladding-Etched Single Mode Optical Fiber Towards Optical Fiber Sensor Development. Sensors, 2018, 18, 1866.	2.1	9
47	Evaluating engineering competencies in curricular internships. , 2018, , .		1
48	Detection of wind turbine gearbox oil degradation with etched single-mode multimode single-mode (SMS) fiber. , 2018, , .		1
49	Ultra-low detection limit lossy mode resonance-based fibre-optic biosensor. , 2018, , .		0
50	Enhancement of luminescence-based optical fiber oxygen sensors by tuning the distance between fluorophore layers. Sensors and Actuators B: Chemical, 2017, 248, 836-847.	4.0	20
51	Fiber-Optic Immunosensor Based on an Etched SMS Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 314-321.	1.9	25
52	A self-referenced optical colorimetric sensor based on silver and gold nanoparticles for quantitative determination of hydrogen peroxide. Sensors and Actuators B: Chemical, 2017, 251, 624-631.	4.0	55
53	Strain Mapping in Carbon-Fiber Prosthesis Using Optical Fiber Sensors. IEEE Sensors Journal, 2017, 17, 3-4.	2.4	16
54	Fabrication of Bragg Gratings on the End Facet of Standard Optical Fibers by Sputtering the Same Material. Journal of Lightwave Technology, 2017, 35, 212-219.	2.7	6

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55	Lossy Mode Resonance-based Aptasensor for CRP Detection. Procedia Technology, 2017, 27, 159-160.	1.1	3
56	New organizational and assessment frameworks for company internship programs. , 2017, , .		2
57	Wavelength and Phase Detection Based SMS Fiber Sensors Optimized With Etching and Nanodeposition. Journal of Lightwave Technology, 2017, 35, 3743-3749.	2.7	39
58	Multimode Interference Fiber Sensors for the Monitoring of Gasoline/Ethanol Blends. Smart Sensors, Measurement and Instrumentation, 2017, , 329-346.	0.4	5
59	High Sensitivity Optical Structures for Relative Humidity Sensing. Smart Sensors, Measurement and Instrumentation, 2017, , 55-79.	0.4	3
60	Comparative study of polymeric matrices embedding oxygen-sensitive fluorophores by means of Layer-by-Layer nanosassembly. Sensors and Actuators B: Chemical, 2017, 239, 1124-1133.	4.0	11
61	Optical sensors based on lossy-mode resonances. Sensors and Actuators B: Chemical, 2017, 240, 174-185.	4.0	182
62	High sensitive and selective C-reactive protein detection by means of lossy mode resonance based optical fiber devices. Biosensors and Bioelectronics, 2017, 93, 176-181.	5.3	93
63	Refractive index sensing performance of a Bragg grating built up on the tip of an optical fiber by reactive sputtering. , 2017, , .		0
64	Sensitivity enhancement by diameter reduction in low cutoff wavelength single-mode multimode singlemode (SMS) fiber sensors. , 2017, , .		0
65	Study of ammonia and nitric oxide sensing performance of a Fabry-Perot interferometer. , 2017, , .		0
66	Distributed optical fiber microphone. , 2017, , .		4
67	Recent Developments in Fiber Optics Humidity Sensors. Sensors, 2017, 17, 893.	2.1	178
68	Optimization in nanocoated D-shaped optical fiber sensors. Optics Express, 2017, 25, 10743.	1.7	47
69	Monitoring the Etching Process in LPFGs towards Development of Highly Sensitive Sensors. Proceedings (mdpi), 2017, 1, .	0.2	2
70	Humidity Sensor Based on Bragg Gratings Developed on the End Facet of an Optical Fiber by Sputtering of One Single Material. Sensors, 2017, 17, 991.	2.1	19
71	Luminescence-Based Optical Sensors Fabricated by Means of the Layer-by-Layer Nano-Assembly Technique. Sensors, 2017, 17, 2826.	2.1	16
72	An Analysis Matrix for the Assessment of Smart City Technologies: Main Results of Its Application. Systems, 2017, 5, 8.	1.2	10

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73	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. Sensors, 2017, 17, 2312.	2.1	48
74	Temperature Sensor Using a Multiwavelength Erbium-Doped Fiber Ring Laser. Journal of Sensors, 2017, 2017, 1-6.	0.6	6
75	Detection of Ethanol in Human Breath Using Optical Fiber Long Period Grating Coated with Metal-Organic Frameworks. Proceedings (mdpi), 2017, 1, .	0.2	1
76	Increasing the Sensitivity of an Optic Level Sensor With a Wavelength and Phase Sensitive Single-Mode Multimode Single-Mode Fiber Structure. IEEE Sensors Journal, 2017, 17, 5515-5522.	2.4	17
77	Lossy Mode Resonances biosensor for the detection of C-reactive protein. , 2016, , .		0
78	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.	0.6	0
79	Sensitivity optimization with cladding-etched long period fiber gratings at the dispersion turning point. Optics Express, 2016, 24, 17680.	1.7	58
80	Cladding etched single mode optical fiber refractometer based on Lossy Mode Resonances. , 2016, , .		1
81	Magnetic field optical sensor based on Lossy Mode Resonances. , 2016, , .		3
82	Fiber-optic immunosensor based on lossy mode resonances induced by indium tin oxide thin-films. , 2016, , .		3
83	Tunable optical fiber pH sensors based on TE and TM Lossy Mode Resonances (LMRs). Sensors and Actuators B: Chemical, 2016, 231, 484-490.	4.0	36
84	Fabrication of Optical Fiber Sensors for Measuring Ageing Transformer Oil in Wavelength. IEEE Sensors Journal, 2016, 16, 4798-4802.	2.4	15
85	Giant sensitivity of optical fiber sensors by means of lossy mode resonance. Sensors and Actuators B: Chemical, 2016, 232, 660-665.	4.0	92
86	Single strand DNA detection by means of lossy mode resonance-based optical fiber devices. , 2016, , .		0
87	Single-modeâ€"multimodeâ€"single-mode and lossy mode resonance-based devices: a comparative study for sensing applications. Microsystem Technologies, 2016, 22, 1633-1638.	1.2	10
88	High sensitivity humidity sensor based on cladding-etched optical fiber and lossy mode resonances. Sensors and Actuators B: Chemical, 2016, 233, 7-16.	4.0	94
89	LMR-Based Optical Fiber Refractometers for Oil Degradation Sensing Applications in Synthetic Lubricant Oils. Journal of Lightwave Technology, 2016, 34, 4537-4542.	2.7	12
90	Wind turbines lubricant gearbox degradation detection by means of a lossy mode resonance based optical fiber refractometer. Microsystem Technologies, 2016, 22, 1619-1625.	1.2	11

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91	Optical fiber resonance-based pH sensors using gold nanoparticles into polymeric layer-by-layer coatings. Microsystem Technologies, 2016, 22, 1821-1829.	1.2	35
92	Etched LPFGs in Reflective Configuration for Sensitivity and Attenuation Band Depth Increase. IEEE Photonics Technology Letters, 2016, 28, 1077-1080.	1.3	5
93	Design of flexible cost-efficient international engineering curricula at Public University of Navarre. , 2015, , .		2
94	Humidity sensor based on lossy mode resonances on an etched single mode fiber. , 2015, , .		1
95	High sensitivity extrinsic Fabry-PÃ¨rot interferometer for humidity sensing. , 2015, , .		1
96	Nanocoated optical fibre for lossy mode resonance (LMR) sensors and filters. , 2015, , .		2
97	“24 hours of innovation”: A trans-pyrenean challenge initiative. , 2015, , .		2
98	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.	0.6	10
99	High-sensitive lossy mode resonance-based optical fiber refractometers by means of sputtered indium oxide thin-films. Proceedings of SPIE, 2015, , .	0.8	1
100	Experimental Study and Sensing Applications of Polarization-Dependent Lossy Mode Resonances Generated by D-Shape Coated Optical Fibers. Journal of Lightwave Technology, 2015, 33, 2412-2418.	2.7	23
101	Optical fiber pH sensor based on gold nanoparticles into polymeric coatings. , 2015, , .		3
102	Fiber optic refractometer based in multimode interference effects (MMI) using Indium Tin Oxide (ITO) coating. , 2015, , .		2
103	Redefining best practices in company internships. , 2015, , .		0
104	Analysis of lossy mode resonances on thin-film coated cladding removed plastic fiber. Optics Letters, 2015, 40, 4867.	1.7	14
105	Urban technology analysis matrix. Management of Environmental Quality, 2015, 26, 342-356.	2.2	5
106	Magnetic field sensor based on a single mode-multimode-single mode optical fiber structure. , 2015, , .		2
107	Single and Multiphase Flow Characterization by Means of an Optical Fiber Bragg Grating Grid. Journal of Lightwave Technology, 2015, 33, 1857-1862.	2.7	19
108	D-shape optical fiber pH sensor based on Lossy Mode Resonances (LMRs). , 2015, , .		4

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109	Generation of Surface Plasmon Resonance and Lossy Mode Resonance by thermal treatment of ITO thin-films. Optics and Laser Technology, 2015, 69, 1-7.	2.2	37
110	Optical Fiber Current Transducer Using Lossy Mode Resonances for High Voltage Networks. Journal of Lightwave Technology, 2015, 33, 2504-2510.	2.7	23
111	Fiber Optic Sensors Based on Nanostructured Materials. Springer Series in Surface Sciences, 2015, , 277-299.	0.3	0
112	Layer-by-Layer assembly of a waterâ€“insoluble platinum complex for optical fiber oxygen sensors. Sensors and Actuators B: Chemical, 2015, 207, 683-689.	4.0	31
113	High sensitive refractometers based on lossy mode resonances (LMRs) supported by ITO coated D-shaped optical fibers. Optics Express, 2015, 23, 8045.	1.7	69
114	A comparative study between SMS interferometers and lossy mode resonace optical fiber devices for sensing applications. Proceedings of SPIE, 2015, , .	0.8	2
115	Indium-Tin-Oxide coated optical fibers for temperature-viscosity sensing applications in synthetic lubricant oils. Proceedings of SPIE, 2015, , .	0.8	3
116	Asymmetrically and symmetrically coated tapered optical fiber for sensing applications. , 2015, , .		0
117	A COMPARATIVE STUDY IN THE SENSITIVITY OF OPTICAL FIBER REFRACTOMETERS BASED ON THE INCORPORATION OF GOLD NANOPARTICLES INTO LAYERBY-Â LAYER FILMS. International Journal on Smart Sensing and Intelligent Systems, 2015, 8, 822-841.	0.4	9
118	METODOLOGÃA PARA DEFINIR UNA HERRAMIENTA DE EVALUACIÃ“N TECNOLÃ“GICA EN LAS SMART-CITIES. Dyna (Spain), 2015, 90, 285-293.	0.1	2
119	Analysis Matrix for Smart Cities. Future Internet, 2014, 6, 61-75.	2.4	28
120	Gasohol Quality Control for Real Time Applications by Means of a Multimode Interference Fiber Sensor. Sensors, 2014, 14, 17817-17828.	2.1	20
121	Analysis of efficient dense wireless sensor network deployment in Smart City environments. , 2014, , .		1
122	A Fiber Optic Ammonia Sensor Using a Universal pH Indicator. Sensors, 2014, 14, 4060-4073.	2.1	39
123	Low voltage transducer based on the changes in the wavelength of the attenuation band. , 2014, , .		2
124	Analysis of women enrollment in Engineering programs at the Public University of Navarre. , 2014, , .		4
125	Fluid turbulence monitoring by means of FBG mesh. , 2014, , .		1
126	Exhaled breath optical fiber sensor based on LMRs for respiration monitoring. , 2014, , .		7

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127	Fiber optic ammonia sensor using Bromocresol Green pH indicator. , 2014, , .		2
128	Optical fiber °Brix sensor based on Lossy Mode Resonances (LMRs). , 2014, , .		2
129	Optical fiber humidity sensor based on a tapered fiber asymmetrically coated with indium tin oxide. , 2014, , .		7
130	Optical fiber refractometers based on localized surface plasmon resonance (LSPR) and lossy mode resonance (LMR). , 2014, , .		4
131	D-shape optical fiber refractometer based on TM and TE lossy mode resonances. Proceedings of SPIE, 2014, , .	0.8	1
132	Celiac disease biodetection using lossy-mode resonances generated in tapered single-mode optical fibers. , 2014, , .		0
133	Optical fiber Bragg grating mesh for multiphase flow sensing. , 2014, , .		3
134	Fiber-optic Lossy Mode Resonance Sensors. Procedia Engineering, 2014, 87, 3-8.	1.2	26
135	Optical fiber current transducer using lossy mode resonances for high voltage networks. Proceedings of SPIE, 2014, , .	0.8	0
136	Sensitivity enhancement in a multimode interference-based SMS fibre structure coated with a thin-film: Theoretical and experimental study. Sensors and Actuators B: Chemical, 2014, 190, 363-369.	4.0	36
137	Spectral width reduction in lossy mode resonance-based sensors by means of tapered optical fibre structures. Sensors and Actuators B: Chemical, 2014, 200, 53-60.	4.0	48
138	University-industry collaboration chairs: Initiatives at the Public University of Navarre. , 2014, , .		7
139	Improved Multifrequency Phase-Modulation Method That Uses Rectangular-Wave Signals to Increase Accuracy in Luminescence Spectroscopy. Analytical Chemistry, 2014, 86, 5245-5256.	3.2	12
140	A comparative study of two different approaches for the incorporation of silver nanoparticles into layer-by-layer films. Nanoscale Research Letters, 2014, 9, 301.	3.1	25
141	Refractometric sensors based on multimode interference in a thin-film coated single-modeâ€“multimodeâ€“single-mode structure with reflection configuration. Applied Optics, 2014, 53, 3913.	0.9	34
142	Optical fiber refractometers based on Lossy Mode Resonances by means of SnO2 sputtered coatings. Sensors and Actuators B: Chemical, 2014, 202, 154-159.	4.0	62
143	Engineering international programs at the public university of Navarre: A satisfactory on-going experience in a context of industrial globalization. , 2014, , .		1
144	Luminescent Optical Fiber Oxygen Sensor following Layer-by-layer Method. Procedia Engineering, 2014, 87, 987-990.	1.2	9

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145	Two-Phase Flow Imaging by means of an 8x8 Optical Fiber Bragg Grating Grid. , 2014, , .		2
146	Fiber optic sensors based on lossy mode resonances. , 2014, , .		0
147	Proposal for Improving Connectivity and adding Authentication and Security to KNXNet/IP Protocol. International Journal of Smart Home, 2014, 8, 77-90.	0.6	0
148	Lossy mode resonance optical fiber sensor to detect organic vapors. Sensors and Actuators B: Chemical, 2013, 187, 65-71.	4.0	57
149	Comparative study of layer-by-layer deposition techniques for poly(sodium phosphate) and poly(allylamine hydrochloride). Nanoscale Research Letters, 2013, 8, 539.	3.1	32
150	Multicolor Layer-by-Layer films using weak polyelectrolyte assisted synthesis of silver nanoparticles. Nanoscale Research Letters, 2013, 8, 438.	3.1	27
151	Optimization of Sensors Based on Multimode Interference in Single-Modeâ€“Multimodeâ€“Single-Mode Structure. Journal of Lightwave Technology, 2013, 31, 3460-3468.	2.7	25
152	Engineering outreach programs at the Public University of Navarre: A holistic approach. , 2013, , .		6
153	City & technology: An analysis matrix to serve citizens. , 2013, , .		4
154	Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. IEEE Sensors Journal, 2013, 13, 1167-1171.	2.4	19
155	Electrospun nanofiber mats for evanescent optical fiber sensors. Sensors and Actuators B: Chemical, 2013, 176, 569-576.	4.0	36
156	A Lossy Mode Resonance optical sensor using silver nanoparticles-loaded films for monitoring human breathing. Sensors and Actuators B: Chemical, 2013, 187, 40-44.	4.0	44
157	Optical Fiber Sensors Based on Lossy Mode Resonances. Smart Sensors, Measurement and Instrumentation, 2013, , 191-210.	0.4	3
158	Humidity sensor fabricated by deposition of SnO₂layers onto optical fibers. Proceedings of SPIE, 2013, , .	0.8	5
159	Detection of bacterial endotoxin in food: New planar interdigital sensors based approach. Journal of Food Engineering, 2013, 114, 346-360.	2.7	64
160	Sensitivity enhancement of a humidity sensor based on poly(sodium phosphate) and poly(allylamine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		1
161	High sensitivity optical fiber pH sensor using poly(acrylic acid) nanofibers. , 2013, , .		2
162	Impact of Wireless Sensor Networks in the advancement of Ambient Intelligence and Smart Cities. , 2013, , .		1

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163	C-reactive protein aptasensor for early sepsis diagnosis by means of an optical fiber device. , 2013, , .		7
164	Experimental demonstration of lossy mode resonance generation for transverse-magnetic and transverse-electric polarizations. Optics Letters, 2013, 38, 2481.	1.7	34
165	Mode transition in complex refractive index coated single-modeâ€“multimodeâ€“single-mode structure. Optics Express, 2013, 21, 12668.	1.7	34
166	Tunable electro-optic wavelength filter based on lossy-guided mode resonances. Optics Express, 2013, 21, 31668.	1.7	22
167	Development of a Low Mobility IEEE 802.15.4 Compliant VANET System for Urban Environments. Sensors, 2013, 13, 7065-7078.	2.1	16
168	Energy Management System proposal for efficient smart homes. , 2013, , .		8
169	Rum adulteration detection using an optical fiber sensor based on multimodal interference (MMI). Optica Pura Y Aplicada, 2013, 46, 345-352.	0.0	3
170	Design rules for lossy mode resonance based sensors. Applied Optics, 2012, 51, 4298.	0.9	177
171	Optical fiber refractometers based on indium tin oxide coatings fabricated by sputtering. Optics Letters, 2012, 37, 28.	1.7	24
172	Thrombin detection by means of an aptamer based sensitive coating fabricated onto LMR-based optical fiber refractometer. , 2012, , .		14
173	Lossy mode resonances toward the fabrication of optical fiber humidity sensors. Measurement Science and Technology, 2012, 23, 014002.	1.4	31
174	SnO₂ based optical fiber refractometers. Proceedings of SPIE, 2012, , .	0.8	1
175	Editorial Third Special Issue on Optical Fiber Sensors. IEEE Sensors Journal, 2012, 12, 5-7.	2.4	6
176	Optical Fiber Sensors Array to Identify Beverages by Their Odor. IEEE Sensors Journal, 2012, 12, 3156-3162.	2.4	13
177	Fiber-optic biosensor based on lossy mode resonances. Sensors and Actuators B: Chemical, 2012, 174, 263-269.	4.0	54
178	Resonance-based refractometric response of cladding-removed optical fibers with sputtered indium tin oxide coatings. Sensors and Actuators B: Chemical, 2012, 175, 106-110.	4.0	39
179	Tapered Single-Mode Optical Fiber pH Sensor Based on Lossy Mode Resonances Generated by a Polymeric Thin-Film. IEEE Sensors Journal, 2012, 12, 2598-2603.	2.4	36
180	Home automation based sensor system for monitoring elderly people safety. , 2012, , .		6

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181	Sensing Properties of Indium Oxide Coated Optical Fiber Devices Based on Lossy Mode Resonances. IEEE Sensors Journal, 2012, 12, 151-155.	2.4	28
182	Lossy mode resonances dependence on the geometry of a tapered monomode optical fiber. Sensors and Actuators A: Physical, 2012, 180, 25-31.	2.0	16
183	Volatile organic compounds optical fiber sensor based on lossy mode resonances. Sensors and Actuators B: Chemical, 2012, 173, 523-529.	4.0	31
184	A novel luminescent optical fibre probe based on immobilized tridentate bis(phosphinic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (a Chemical, 2012, 173, 254-261.	4.0	15
185	An antibacterial submicron fiber mat with in situ synthesized silver nanoparticles. Journal of Applied Polymer Science, 2012, 126, 1228-1235.	1.3	26
186	Nanofabrication Techniques Applied to the Development of Novel Optical Fiber Sensors Based on Nanostructured Coatings. IEEE Sensors Journal, 2012, 12, 2699-2710.	2.4	18
187	Single-stage in situ synthesis of silver nanoparticles in antibacterial self-assembled overlays. Colloid and Polymer Science, 2012, 290, 785-792.	1.0	16
188	Humidity sensor based on silver nanoparticles embedded in a polymeric coating. International Journal on Smart Sensing and Intelligent Systems, 2012, 5, 71-83.	0.4	12
189	Optical fiber refractometers with response in the visible spectral region by means ITO coatings. Optica Pura Y Aplicada, 2012, 45, 183-187.	0.0	0
190	Lossy mode resonance-based optical fiber humidity sensor. , 2011, , .		2
191	Lossy Mode Resonance-based pH sensor using a tapered single mode optical fiber coated with a polymeric nanostructure. , 2011, , .		7
192	Optical fiber refractometers based on sputtered indium tin oxide coatings. , 2011, , .		1
193	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.	2.4	50
194	Optical sensor based on polymer electrospun nanofibers for sensing humidity. , 2011, , .		1
195	Analyses of performance of novel sensors with different coatings for detection of Lipopolysaccharide. , 2011, , .		1
196	Humidity sensor based on silver nanoparticles embedded in a polymeric coating. , 2011, , .		3
197	Influence of Waist Length in Lossy Mode Resonances Generated With Coated Tapered Single-Mode Optical Fibers. IEEE Photonics Technology Letters, 2011, 23, 1579-1581.	1.3	17
198	Optical Fiber Refractometers based on Indium Tin Oxide Coatings with Response in the Visible Spectral Region. Procedia Engineering, 2011, 25, 499-502.	1.2	4

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