Ignacio R Matias

List of Publications by Year
in descending order

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374	9,191	41344	64796
papers	citations	49 h-index	79 g-index

387	387	387	4973
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimization of sensitivity in Long Period Fiber Gratings with overlay deposition. Optics Express, 2005, 13, 56.	3.4	318
2	Optical fiber humidity sensor based on a tapered fiber coated with agarose gel. Sensors and Actuators B: Chemical, 2000, 69, 127-131.	7.8	239
3	Lossy Mode Resonance Generation With Indium-Tin-Oxide-Coated Optical Fibers for Sensing Applications. Journal of Lightwave Technology, 2010, 28, 111-117.	4.6	228
4	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. ACS Sensors, 2018, 3, 936-943.	7.8	193
5	Optical sensors based on lossy-mode resonances. Sensors and Actuators B: Chemical, 2017, 240, 174-185.	7.8	182
6	Recent Developments in Fiber Optics Humidity Sensors. Sensors, 2017, 17, 893.	3.8	178
7	Design rules for lossy mode resonance based sensors. Applied Optics, 2012, 51, 4298.	1.8	177
8	Optical fiber humidity sensor using a nano Fabryâ€“Perot cavity formed by the ionic self-assembly method. Sensors and Actuators B: Chemical, 1999, 59, 54-59.	7.8	170
9	Volatile Organic Compound Optical Fiber Sensors: A Review. Sensors, 2006, 6, 1440-1465.	3.8	165
10	Optical fiber pH sensor based on lossy-mode resonances by means of thin polymeric coatings. Sensors and Actuators B: Chemical, 2011, 155, 290-297.	7.8	149
11	Deposition of overlays by electrostatic self-assembly in long-period fiber gratings. Optics Letters, 2005, 30, 720.	3.3	129
12	Tunable humidity sensor based on ITO-coated optical fiber. Sensors and Actuators B: Chemical, 2010, 146, 414-417.	7.8	126
13	Optical fiber pH sensors based on layer-by-layer electrostatic self-assembled Neutral Red. Sensors and Actuators B: Chemical, 2008, 132, 305-311.	7.8	123
14	Sensitivity optimization of tapered optical fiber humidity sensors by means of tuning the thickness of nanostructured sensitive coatings. Sensors and Actuators B: Chemical, 2007, 122, 442-449.	7.8	120
15	Design of Humidity Sensors Based on Tapered Optical Fibers. Journal of Lightwave Technology, 2006, 24, 4329-4336.	4.6	118
16	Optical fiber refractometers based on lossy mode resonances supported by TiO_2 coatings. Applied Optics, 2010, 49, 3980.	2.1	118
17	Optical fiber nanometer-scale Fabryâ€“Perot interferometer formed by the ionic self-assembly monolayer process. Optics Letters, 1999, 24, 596.	3.3	95
18	High sensitivity humidity sensor based on cladding-etched optical fiber and lossy mode resonances. Sensors and Actuators B: Chemical, 2016, 233, 7-16.	7.8	94

#	Article	IF	Citations
19	An experimental study about hydrogels for the fabrication of optical fiber humidity sensors. Sensors and Actuators B: Chemical, 2003, 96, 165-172.	7.8	93
20	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.	10.1	93
21	Giant sensitivity of optical fiber sensors by means of lossy mode resonance. Sensors and Actuators B: Chemical, 2016, 232, 660-665.	7.8	92
22	An antibacterial coating based on a polymer/sol-gel hybrid matrix loaded with silver nanoparticles. Nanoscale Research Letters, 2011, 6, 305.	5.7	80
23	Optical fiber sensor based on lutetium bisphthalocyanine for the detection of gases using standard telecommunication wavelengths. Sensors and Actuators B: Chemical, 2003, 93, 153-158.	7.8	78
24	Fiber-optic pH-sensors in long-period fiber gratings using electrostatic self-assembly. Optics Letters, 2007, 32, 29.	3.3	78
25	Nanodeposition of materials with complex refractive index in long-period fiber gratings. Journal of Lightwave Technology, 2005, 23, 4192-4199.	4.6	75
26	Design of pH Sensors in Long-Period Fiber Gratings Using Polymeric Nanocoatings. IEEE Sensors Journal, 2007, 7, 455-463.	4.7	75
27	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.	2.2	73
28	Optical Fiber Humidity Sensors Using Nanostructured Coatings of SiO$_{2}$ Nanoparticles. IEEE Sensors Journal, 2008, 8, 281-285.	4.7	70
29	Detection of volatile organic compound vapors by using a vapochromic material on a tapered optical fiber. Applied Physics Letters, 2000, 77, 2274-2276.	3.3	69
30	Optical Fiber Humidity Sensors Using PVdF Electrospun Nanowebs. IEEE Sensors Journal, 2011, 11, 2383-2387.	4.7	69
31	High sensitive refractometers based on lossy mode resonances (LMRs) supported by ITO coated D-shaped optical fibers. Optics Express, 2015, 23, 8045.	3.4	69
32	Simultaneous measurement of humidity and temperature by combining a reflective intensity-based optical fiber sensor and a fiber Bragg grating. IEEE Sensors Journal, 2002, 2, 482-487.	4.7	68
33	Utilization of white light interferometry in pH sensing applications by mean of the fabrication of nanostructured cavities. Sensors and Actuators B: Chemical, 2009, 138, 613-618.	7.8	67
34	Volatile alcoholic compounds fibre optic nanosensor. Sensors and Actuators B: Chemical, 2006, 115, 444-449.	7.8	65
35	ITO Coated Optical Fiber Refractometers Based on Resonances in the Infrared Region. IEEE Sensors Journal, 2010, 10, 365-366.	4.7	65
36	Trends in the design of wavelength-based optical fibre biosensors (2008â€“2018). Biosensors and Bioelectronics: X, 2019, 1, 100015.	1.7	65

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37	Detection of bacterial endotoxin in food: New planar interdigital sensors based approach. Journal of Food Engineering, 2013, 114, 346-360.	5.2	64
38	Simultaneous measurement of strain and temperature using a fiber Bragg grating and a thermochromic material. Sensors and Actuators A: Physical, 2002, 101, 107-116.	4.1	62
39	Optical fiber refractometers based on Lossy Mode Resonances by means of SnO2 sputtered coatings. Sensors and Actuators B: Chemical, 2014, 202, 154-159.	7.8	62
40	Sensitivity optimization with cladding-etched long period fiber gratings at the dispersion turning point. Optics Express, 2016, 24, 17680.	3.4	58
41	Lossy mode resonance optical fiber sensor to detect organic vapors. Sensors and Actuators B: Chemical, 2013, 187, 65-71.	7.8	57
42	Quantum Dots-Based Optical Fiber Temperature Sensors Fabricated by Layer-by-Layer. IEEE Sensors Journal, 2006, 6, 1378-1379.	4.7	56
43	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.	7.8	55
44	Tapered optical fiber biosensor for the detection of anti-gliadin antibodies. Sensors and Actuators B: Chemical, 2008, 135, 166-171.	7.8	54
45	A fibre optic humidity sensor based on a long-period fibre grating coated with a thin film of SiO₂nanospheres. Measurement Science and Technology, 2009, 20, 034002.	2.6	54
46	Fiber-optic biosensor based on lossy mode resonances. Sensors and Actuators B: Chemical, 2012, 174, 263-269.	7.8	54
47	Evanescent Field Fiber-Optic Sensors for Humidity Monitoring Based on Nanocoatings. IEEE Sensors Journal, 2007, 7, 89-95.	4.7	53
48	Influence on cladding mode distribution of overlay deposition on long-period fiber gratings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 651.	1.5	50
49	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.	4.7	50
50	Analysis of one-dimensional photonic band gap structures with a liquid crystal defect towards development of fiber-optic tunable wavelength filters. Optics Express, 2003, 11, 430.	3.4	49
51	Nonadiabatic tapered single-mode fiber coated with humidity sensitive nanofilms. IEEE Photonics Technology Letters, 2006, 18, 935-937.	2.5	49
52	Enhancement of sensitivity in long-period fiber gratings with deposition of low-refractive-index materials. Optics Letters, 2005, 30, 2363.	3.3	48
53	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.	7.8	48
54	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. Sensors, 2017, 17, 2312.	3.8	48

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55	Optimization in nanocoated D-shaped optical fiber sensors. Optics Express, 2017, 25, 10743.	3.4	47
56	Optical fiber strain gauge based on a tapered single-mode fiber. Sensors and Actuators A: Physical, 2000, 79, 90-96.	4.1	46
57	An experimental study about the utilization of LiquicoatÂ® solutions for the fabrication of pH optical fiber sensors. Sensors and Actuators B: Chemical, 2002, 87, 289-295.	7.8	46
58	Photonic Crystal Fiber Temperature Sensor Based on Quantum Dot Nanocoatings. Journal of Sensors, 2009, 2009, 1-6.	1.1	46
59	Response time enhancement of pH sensing films by means of hydrophilic nanostructured coatings. Sensors and Actuators B: Chemical, 2007, 128, 138-144.	7.8	44
60	A Lossy Mode Resonance optical sensor using silver nanoparticles-loaded films for monitoring human breathing. Sensors and Actuators B: Chemical, 2013, 187, 40-44.	7.8	44
61	Tapered optical-fiber temperature sensor. Microwave and Optical Technology Letters, 1996, 11, 93-95.	1.4	43
62	Fourier modal methods for modeling optical dielectric waveguides. Optical and Quantum Electronics, 2005, 37, 107-119.	3.3	43
63	Dual-Peak Resonance-Based Optical Fiber Refractometers. IEEE Photonics Technology Letters, 2010, 22, 1778-1780.	2.5	43
64	Lossy mode resonance sensors based on lateral light incidence in nanocoated planar waveguides. Scientific Reports, 2019, 9, 8882.	3.3	43
65	Fiber-based 205-mW (27% efficiency) power-delivery system for an all-fiber network with optoelectronic sensor units. Applied Optics, 1999, 38, 2463.	2.1	42
66	Experimental study of a thermochromic material based optical fiber sensor for monitoring the temperature of the water in several applications. Sensors and Actuators B: Chemical, 2003, 91, 231-240.	7.8	42
67	Unbalance and harmonics detection in induction motors using an optical fiber sensor. IEEE Sensors Journal, 2006, 6, 605-612.	4.7	41
68	Two-Layer Nanocoatings in Long-Period Fiber Gratings for Improved Sensitivity of Humidity Sensors. IEEE Nanotechnology Magazine, 2008, 7, 394-400.	2.0	40
69	Optical fiber sensing devices based on organic vapor indicators towards sensor array implementation. Sensors and Actuators B: Chemical, 2009, 137, 139-146.	7.8	40
70	Optimized Strain Long-Period Fiber Grating (LPFG) Sensors Operating at the Dispersion Turning Point. Journal of Lightwave Technology, 2018, 36, 2240-2247.	4.6	40
71	Optical fibre sensors based on vapochromic gold complexes for environmental applications. Sensors and Actuators B: Chemical, 2005, 108, 535-541.	7.8	39
72	Resonance-based refractometric response of cladding-removed optical fibers with sputtered indium tin oxide coatings. Sensors and Actuators B: Chemical, 2012, 175, 106-110.	7.8	39

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73	A Fiber Optic Ammonia Sensor Using a Universal pH Indicator. Sensors, 2014, 14, 4060-4073.	3.8	39
74	Wavelength and Phase Detection Based SMS Fiber Sensors Optimized With Etching and Nanodeposition. Journal of Lightwave Technology, 2017, 35, 3743-3749.	4.6	39
75	ESA-Based In-Fiber Nanocavity for Hydrogenâ€“Peroxide Detection. IEEE Nanotechnology Magazine, 2005, 4, 187-193.	2.0	38
76	Nanostructured optical fibre sensors for breathing airflow monitoring. Measurement Science and Technology, 2006, 17, 1207-1210.	2.6	37
77	Generation of Surface Plasmon Resonance and Lossy Mode Resonance by thermal treatment of ITO thin-films. Optics and Laser Technology, 2015, 69, 1-7.	4.6	37
78	Fiber-based early diagnosis of venous thromboembolic disease by label-free D-dimer detection. Biosensors and Bioelectronics: X, 2019, 2, 100026.	1.7	37
79	Fiber Optic Gas Sensors Based on Lossy Mode Resonances and Sensing Materials Used Therefor: A Comprehensive Review. Sensors, 2021, 21, 731.	3.8	37
80	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.	4.7	36
81	Electrospun nanofiber mats for evanescent optical fiber sensors. Sensors and Actuators B: Chemical, 2013, 176, 569-576.	7.8	36
82	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.	7.8	36
83	Tunable optical fiber pH sensors based on TE and TM Lossy Mode Resonances (LMRs). Sensors and Actuators B: Chemical, 2016, 231, 484-490.	7.8	36
84	Optical fiber resonance-based pH sensors using gold nanoparticles into polymeric layer-by-layer coatings. Microsystem Technologies, 2016, 22, 1821-1829.	2.0	35
85	Fiber-optic hydrogen peroxide nanosensor. IEEE Sensors Journal, 2005, 5, 365-371.	4.7	34
86	Experimental demonstration of lossy mode resonance generation for transverse-magnetic and transverse-electric polarizations. Optics Letters, 2013, 38, 2481.	3.3	34
87	Mode transition in complex refractive index coated single-modeâ€“multimodeâ€“single-mode structure. Optics Express, 2013, 21, 12668.	3.4	34
88	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.	1.8	34
89	Tapered optical-fiber-based pressure sensor. Optical Engineering, 2000, 39, 2241.	1.0	33
90	Behavioral experimental studies of a novel vapochromic material towards development of optical fiber organic compounds sensor. Sensors and Actuators B: Chemical, 2001, 76, 25-31.	7.8	33

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91	New preparation of gold-silver complexes and optical fibre environmental sensors based on vapochromic [Au2Ag2(C6F5)4(phen)2]n. Applied Organometallic Chemistry, 2005, 19, 1232-1238.	3.5	33
92	Fabrication of micrograting on the ends of standard optical fibers by the electrostatic self-assembly monolayer process. Optics Letters, 2001, 26, 131.	3.3	32
93	Editorial Optical Fiber Sensor Technology and Applications. IEEE Sensors Journal, 2008, 8, 1052-1054.	4.7	32
94	Sensitivity Improvement of a Humidity Sensor Based on Silica Nanospheres on a Long-Period Fiber Grating. Sensors, 2009, 9, 519-527.	3.8	32
95	Comparative study of layer-by-layer deposition techniques for poly(sodium phosphate) and poly(allylamine hydrochloride). Nanoscale Research Letters, 2013, 8, 539.	5.7	32
96	Lossy mode resonances toward the fabrication of optical fiber humidity sensors. Measurement Science and Technology, 2012, 23, 014002.	2.6	31
97	Volatile organic compounds optical fiber sensor based on lossy mode resonances. Sensors and Actuators B: Chemical, 2012, 173, 523-529.	7.8	31
98	Layer-by-Layer assembly of a waterâ€“insoluble platinum complex for optical fiber oxygen sensors. Sensors and Actuators B: Chemical, 2015, 207, 683-689.	7.8	31
99	Minimizing the photobleaching of self-assembled multilayers for sensor applications. Sensors and Actuators B: Chemical, 2007, 126, 41-47.	7.8	30
100	Generation of Lossy Mode Resonances With Absorbing Thin-Films. Journal of Lightwave Technology, 2010, , .	4.6	30
101	Optical Fiber Humidity Sensor Based on Lossy Mode Resonances Supported by TiO2/PSS Coatings. Procedia Engineering, 2011, 25, 1385-1388.	1.2	30
102	Ammonia optical fiber sensor based on self-assembled zirconia thin films. Smart Materials and Structures, 2005, 14, 739-744.	3.5	29
103	Fringe generation with non-uniformly coated long-period fiber gratings. Optics Express, 2007, 15, 9326.	3.4	29
104	Pyridine Vapors Detection by an Optical Fibre Sensor. Sensors, 2008, 8, 847-859.	3.8	29
105	Resonances in coated long period fiber gratings and cladding removed multimode optical fibers: a comparative study. Optics Express, 2010, 18, 20183.	3.4	28
106	Sensing Properties of Indium Oxide Coated Optical Fiber Devices Based on Lossy Mode Resonances. IEEE Sensors Journal, 2012, 12, 151-155.	4.7	28
107	Analysis Matrix for Smart Cities. Future Internet, 2014, 6, 61-75.	3.8	28
108	Ultrahigh Sensitive Detection of Tau Protein as Alzheimer's Biomarker via Microfluidics and Nanofunctionalized Optical Fiber Sensors. Advanced Photonics Research, 2022, 3, .	3.6	28

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109	Multicolor Layer-by-Layer films using weak polyelectrolyte assisted synthesis of silver nanoparticles. Nanoscale Research Letters, 2013, 8, 438.	5.7	27
110	Optically tunable fiber optic delay generator utilizing photochromic doped solâ€gel gelâ€glass delay line. Journal of Applied Physics, 1995, 77, 2804-2805.	2.5	26
111	Strategies for fabrication of hydrogen peroxide sensors based on electrostatic self-assembly (ESA) method. Sensors and Actuators B: Chemical, 2005, 108, 751-757.	7.8	26
112	Development of an In-Fiber Nanocavity Towards Detection of Volatile Organic Gases. Sensors, 2006, 6, 578-592.	3.8	26
113	An antibacterial submicron fiber mat with in situ synthesized silver nanoparticles. Journal of Applied Polymer Science, 2012, 126, 1228-1235.	2.6	26
114	Fiber-optic Lossy Mode Resonance Sensors. Procedia Engineering, 2014, 87, 3-8.	1.2	26
115	Optical fiber gas sensor based on self-assembled gratings. Journal of Lightwave Technology, 2001, 19, 1932-1937.	4.6	25
116	Optimization of Sensors Based on Multimode Interference in Single-Modeâ€“Multimodeâ€“Single-Mode Structure. Journal of Lightwave Technology, 2013, 31, 3460-3468.	4.6	25
117	A comparative study of two different approaches for the incorporation of silver nanoparticles into layer-by-layer films. Nanoscale Research Letters, 2014, 9, 301.	5.7	25
118	Fiber-Optic Immunosensor Based on an Etched SMS Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 314-321.	2.9	25
119	Long-period fiber gratings with overlay of variable refractive index. IEEE Photonics Technology Letters, 2005, 17, 1893-1895.	2.5	24
120	Nanofilms on hollow core fiber-based structures: an optical study. Journal of Lightwave Technology, 2006, 24, 2100-2107.	4.6	24
121	Optical fiber refractometers based on indium tin oxide coatings fabricated by sputtering. Optics Letters, 2012, 37, 28.	3.3	24
122	Generation of lossy mode resonances with different nanocoatings deposited on coverslips. Optics Express, 2020, 28, 288.	3.4	24
123	Optical fiber gas sensors based on hydrophobic alumina thin films formed by the electrostatic self-assembly monolayer process. IEEE Sensors Journal, 2003, 3, 56-61.	4.7	23
124	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.	4.6	23
125	Optical Fiber Current Transducer Using Lossy Mode Resonances for High Voltage Networks. Journal of Lightwave Technology, 2015, 33, 2504-2510.	4.6	23
126	Fiber optic ammonia sensing employing novel thermoplastic polyurethane membranes. Sensors and Actuators B: Chemical, 2005, 105, 419-424.	7.8	22

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127	Study of indicators for the development of fluorescence based optical fiber temperature sensors. Sensors and Actuators B: Chemical, 2006, 118, 425-432.	7.8	22
128	Tunable electro-optic wavelength filter based on lossy-guided mode resonances. Optics Express, 2013, 21, 31668.	3.4	22
129	Dually nanocoated planar waveguides towards multi-parameter sensing. Scientific Reports, 2021, 11, 3669.	3.3	22
130	Trends in the Design of Intensity-Based Optical Fiber Biosensors (2010â€“2020). Biosensors, 2021, 11, 197.	4.7	22
131	Spectral evolution with incremental nanocoating of long period fiber gratings. Optics Express, 2006, 14, 11972.	3.4	21
132	Vibration monitoring in electrical engines using an in-line fiber etalon. Sensors and Actuators A: Physical, 2006, 132, 506-515.	4.1	21
133	Indicator immobilization on Fabry-Perot nanocavities towards development of fiber optic sensors. Sensors and Actuators B: Chemical, 2008, 130, 158-163.	7.8	21
134	Smart Carbon Fiber Transtibial Prosthesis Based on Embedded Fiber Bragg Gratings. IEEE Sensors Journal, 2018, 18, 1520-1527.	4.7	21
135	Generation of Lossy Mode Resonances in Planar Waveguides Toward Development of Humidity Sensors. Journal of Lightwave Technology, 2019, 37, 2300-2306.	4.6	21
136	Application of gold complexes in the development of sensors for volatile organic compounds. Gold Bulletin, 2007, 40, 225-233.	2.7	20
137	Gasohol Quality Control for Real Time Applications by Means of a Multimode Interference Fiber Sensor. Sensors, 2014, 14, 17817-17828.	3.8	20
138	Enhancement of luminescence-based optical fiber oxygen sensors by tuning the distance between fluorophore layers. Sensors and Actuators B: Chemical, 2017, 248, 836-847.	7.8	20
139	Multimode-Coreless-Multimode Fiber-Based Sensors: Theoretical and Experimental Study. Journal of Lightwave Technology, 2019, 37, 3844-3850.	4.6	20
140	Fiber optic glucose sensor based on bionanofilms. Sensors and Actuators B: Chemical, 2008, 131, 633-639.	7.8	19
141	Optical fiber sensors based on Layer-by-Layer nanostructured films. Procedia Engineering, 2010, 5, 1087-1090.	1.2	19
142	Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. IEEE Sensors Journal, 2013, 13, 1167-1171.	4.7	19
143	Single and Multiphase Flow Characterization by Means of an Optical Fiber Bragg Grating Grid. Journal of Lightwave Technology, 2015, 33, 1857-1862.	4.6	19
144	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.	3.8	19

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145	Deposition of coatings on long-period fiber gratings: tunnel effect analogy. Optical and Quantum Electronics, 2006, 38, 655-665.	3.3	18
146	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.	0.8	18
147	Nanofabrication Techniques Applied to the Development of Novel Optical Fiber Sensors Based on Nanostructured Coatings. IEEE Sensors Journal, 2012, 12, 2699-2710.	4.7	18
148	Fiber optic glucose biosensor. Optical Engineering, 2006, 45, 104401.	1.0	17
149	Encapsulated Quantum Dot Nanofilms Inside Hollow Core Optical Fibers for Temperature Measurement. IEEE Sensors Journal, 2008, 8, 1368-1374.	4.7	17
150	Fiber-Optic Chemical Nanosensors by Electrostatic Molecular Self- Assembly. Current Analytical Chemistry, 2008, 4, 341-355.	1.2	17
151	Study and Optimization of Self-Assembled Polymeric Multilayer Structures with Neutral Red for pH Sensing Applications. Journal of Sensors, 2008, 2008, 1-7.	1.1	17
152	Influence of Waist Length in Lossy Mode Resonances Generated With Coated Tapered Single-Mode Optical Fibers. IEEE Photonics Technology Letters, 2011, 23, 1579-1581.	2.5	17
153	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.	4.7	17
154	Comparative study of the modeling of three-dimensional photonic bandgap structures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 644.	1.5	16
155	Fiber-Optic Multiple-Wavelength Filter Based on One-Dimensional Photonic Bandgap Structures With Defects. Journal of Lightwave Technology, 2004, 22, 1615-1621.	4.6	16
156	Lossy mode resonances dependence on the geometry of a tapered monomode optical fiber. Sensors and Actuators A: Physical, 2012, 180, 25-31.	4.1	16
157	Single-stage in situ synthesis of silver nanoparticles in antibacterial self-assembled overlays. Colloid and Polymer Science, 2012, 290, 785-792.	2.1	16
158	Development of a Low Mobility IEEE 802.15.4 Compliant VANET System for Urban Environments. Sensors, 2013, 13, 7065-7078.	3.8	16
159	Strain Mapping in Carbon-Fiber Prosthesis Using Optical Fiber Sensors. IEEE Sensors Journal, 2017, 17, 3-4.	4.7	16
160	Luminescence-Based Optical Sensors Fabricated by Means of the Layer-by-Layer Nano-Assembly Technique. Sensors, 2017, 17, 2826.	3.8	16
161	Dynamic behavior of sol-gel gel-glass based thermochromic material applied toward development of practical optical temperature sensors. Optical Engineering, 1998, 37, 2620.	1.0	15
162	Polymeric thin films of controlled complex refractive index formed by the electrostatic self-assembled monolayer process. IEEE Photonics Technology Letters, 2001, 13, 1319-1321.	2.5	15

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163	Lossy mode resonances supported by TiO2 -coated optical fibers. Procedia Engineering, 2010, 5, 1099-1102.	1.2	15
164	A novel luminescent optical fibre probe based on immobilized tridentate bis(phosphinic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (a Chemical, 2012, 173, 254-261.	7.8	15
165	Fabrication of Optical Fiber Sensors for Measuring Ageing Transformer Oil in Wavelength. IEEE Sensors Journal, 2016, 16, 4798-4802.	4.7	15
166	Optical Biosensors for the Detection of Rheumatoid Arthritis (RA) Biomarkers: A Comprehensive Review. Sensors, 2020, 20, 6289.	3.8	15
167	<title>Experimental results toward development of humidity sensors by using a hygroscopic material on biconically tapered optical fiber</title>. , 1998, , .		14
168	Low-cost optical amplitude modulator based on a tapered single-mode optical fiber. Applied Optics, 2001, 40, 228.	2.1	14
169	An antibacterial surface coating composed of PAH/SiO₂ nanostructurated films by layer by layer. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2774-2777.	0.8	14
170	Thrombin detection by means of an aptamer based sensitive coating fabricated onto LMR-based optical fiber refractometer. , 2012, , .		14
171	Analysis of lossy mode resonances on thin-film coated cladding removed plastic fiber. Optics Letters, 2015, 40, 4867.	3.3	14
172	Transmitted Optical Power through a Tapered Single-Mode Fiber under Dynamic Bending Effects. Fiber and Integrated Optics, 2003, 22, 173-187.	2.5	13
173	Thermochromic-effect-based temperature optical fiber sensor for underwater applications. Optical Engineering, 2003, 42, 656.	1.0	13
174	Optical fiber humidity sensor based on surface plasmon resonance in the infra-red region. Journal of Physics: Conference Series, 2009, 178, 012019.	0.4	13
175	Agarose optical fibre humidity sensor based on electromagnetic resonance in the infraâ€red region. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2767-2769.	0.8	13
176	Optimization of single mode fibre sensors to detect organic vapours. Sensors and Actuators B: Chemical, 2011, 157, 388-394.	7.8	13
177	Optical Fiber Sensors Array to Identify Beverages by Their Odor. IEEE Sensors Journal, 2012, 12, 3156-3162.	4.7	13
178	Interdigital concept in photonic sensors based on an array of lossy mode resonances. Scientific Reports, 2021, 11, 13228.	3.3	13
179	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.	7.8	13
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