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	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.	4.7	1
3	Monitoring of Electric Buses Within an Urban Smart City Environment. IEEE Sensors Journal, 2022, 22, 11364-11372.	4.7	10
4	Multichannel Refractometer Based on Lossy Mode Resonances. IEEE Sensors Journal, 2022, 22, 3181-3187.	4.7	8
5	Fault Detection of Planetary Gears Based on Signal Space Constellations. Sensors, 2022, 22, 366.	3.8	3
6	Optical fiber thermo-refractometer. Optics Express, 2022, 30, 11036.	3.4	11
7	Simultaneous Generation of Surface Plasmon and Lossy Mode Resonances in the Same Planar Platform. Sensors, 2022, 22, 1505.	3.8	9
8	Lossy Mode Resonance Based Microfluidic Platform Developed on Planar Waveguide for Biosensing Applications. Biosensors, 2022, 12, 403.	4.7	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.	4.6	5
10	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
11	Optical Fiber Vacuum Sensor Based on Etched SMS Structure and PDMS Coating. IEEE Sensors Journal, 2021, 21, 9698-9705.	4.7	5
12	Guest Editorial Special Issue on Advances in Fiber Optic Sensing Technologies. IEEE Sensors Journal, 2021, 21, 16-16.	4.7	6
13	Fiber Optic Gas Sensors Based on Lossy Mode Resonances and Sensing Materials Used Therefor: A Comprehensive Review. Sensors, 2021, 21, 731.	3.8	37
14	Intrusive Passive Optical Tapping Device. IEEE Access, 2021, 9, 31627-31637.	4.2	0
15	Dually nanocoated planar waveguides towards multi-parameter sensing. Scientific Reports, 2021, 11, 3669.	3.3	22
16	Beyond near-infrared lossy mode resonances with fluoride glass optical fiber. Optics Letters, 2021, 46, 2892.	3.3	6
17	Optimization of Fiber Bragg Gratings Inscribed in Thin Films Deposited on D-Shaped Optical Fibers. Sensors, 2021, 21, 4056.	3.8	7
18	Trends in the Design of Intensity-Based Optical Fiber Biosensors (2010â€“2020). Biosensors, 2021, 11, 197.	4.7	22

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19	Interdigital concept in photonic sensors based on an array of lossy mode resonances. Scientific Reports, 2021, 11, 13228.	3.3	13
20	Twin lossy mode resonance on a single D-shaped optical fiber. Optics Letters, 2021, 46, 3284.	3.3	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.	3.8	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.	7.8	13
25	Generation of lossy mode resonances with different nanocoatings deposited on coverslips. Optics Express, 2020, 28, 288.	3.4	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.	4.6	7
31	Fiber-based early diagnosis of venous thromboembolic disease by label-free D-dimer detection. Biosensors and Bioelectronics: X, 2019, 2, 100026.	1.7	37
32	Lossy mode resonance sensors based on lateral light incidence in nanocoated planar waveguides. Scientific Reports, 2019, 9, 8882.	3.3	43
33	Trends in the design of wavelength-based optical fibre biosensors (2008â€“2018). Biosensors and Bioelectronics: X, 2019, 1, 100015.	1.7	65
34	Multimode-Coreless-Multimode Fiber-Based Sensors: Theoretical and Experimental Study. Journal of Lightwave Technology, 2019, 37, 3844-3850.	4.6	20
35	Generation of Lossy Mode Resonances in Planar Waveguides Toward Development of Humidity Sensors. Journal of Lightwave Technology, 2019, 37, 2300-2306.	4.6	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.	4.7	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.	7.8	4
42	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. ACS Sensors, 2018, 3, 936-943.	7.8	193
43	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
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.	4.6	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.	3.8	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.	7.8	20
51	Fiber-Optic Immunosensor Based on an Etched SMS Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 314-321.	2.9	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.	7.8	55
53	Strain Mapping in Carbon-Fiber Prosthesis Using Optical Fiber Sensors. IEEE Sensors Journal, 2017, 17, 3-4.	4.7	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.	4.6	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.	4.6	39
58	Multimode Interference Fiber Sensors for the Monitoring of Gasoline/Ethanol Blends. Smart Sensors, Measurement and Instrumentation, 2017, , 329-346.	0.6	5
59	High Sensitivity Optical Structures for Relative Humidity Sensing. Smart Sensors, Measurement and Instrumentation, 2017, , 55-79.	0.6	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.	7.8	11
61	Optical sensors based on lossy-mode resonances. Sensors and Actuators B: Chemical, 2017, 240, 174-185.	7.8	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.	10.1	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.	3.8	178
68	Optimization in nanocoated D-shaped optical fiber sensors. Optics Express, 2017, 25, 10743.	3.4	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.	3.8	19
71	Luminescence-Based Optical Sensors Fabricated by Means of the Layer-by-Layer Nano-Assembly Technique. Sensors, 2017, 17, 2826.	3.8	16
72	An Analysis Matrix for the Assessment of Smart City Technologies: Main Results of Its Application. Systems, 2017, 5, 8.	2.3	10

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73	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. Sensors, 2017, 17, 2312.	3.8	48
74	Temperature Sensor Using a Multiwavelength Erbium-Doped Fiber Ring Laser. Journal of Sensors, 2017, 2017, 1-6.	1.1	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.	4.7	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.	1.1	0
79	Sensitivity optimization with cladding-etched long period fiber gratings at the dispersion turning point. Optics Express, 2016, 24, 17680.	3.4	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.	7.8	36
84	Fabrication of Optical Fiber Sensors for Measuring Ageing Transformer Oil in Wavelength. IEEE Sensors Journal, 2016, 16, 4798-4802.	4.7	15
85	Giant sensitivity of optical fiber sensors by means of lossy mode resonance. Sensors and Actuators B: Chemical, 2016, 232, 660-665.	7.8	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.	2.0	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.	7.8	94
89	LMR-Based Optical Fiber Refractometers for Oil Degradation Sensing Applications in Synthetic Lubricant Oils. Journal of Lightwave Technology, 2016, 34, 4537-4542.	4.6	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.	2.0	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.	2.0	35
92	Etched LPFGs in Reflective Configuration for Sensitivity and Attenuation Band Depth Increase. IEEE Photonics Technology Letters, 2016, 28, 1077-1080.	2.5	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.	1.1	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.	4.6	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.	3.3	14
105	Urban technology analysis matrix. Management of Environmental Quality, 2015, 26, 342-356.	4.3	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.	4.6	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.	4.6	37
110	Optical Fiber Current Transducer Using Lossy Mode Resonances for High Voltage Networks. Journal of Lightwave Technology, 2015, 33, 2504-2510.	4.6	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.	7.8	31
113	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
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.	0.7	9
118	METODOLOGÃA PARA DEFINIR UNA HERRAMIENTA DE EVALUACIÃ“N TECNOLÃ“GICA EN LAS SMART-CITIES. Dyna (Spain), 2015, 90, 285-293.	0.2	2
119	Analysis Matrix for Smart Cities. Future Internet, 2014, 6, 61-75.	3.8	28
120	Gasohol Quality Control for Real Time Applications by Means of a Multimode Interference Fiber Sensor. Sensors, 2014, 14, 17817-17828.	3.8	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.	3.8	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.	7.8	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.	7.8	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.	6.5	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.	5.7	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.	1.8	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.	7.8	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.	0.4	0
148	Lossy mode resonance optical fiber sensor to detect organic vapors. Sensors and Actuators B: Chemical, 2013, 187, 65-71.	7.8	57
149	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
150	Multicolor Layer-by-Layer films using weak polyelectrolyte assisted synthesis of silver nanoparticles. Nanoscale Research Letters, 2013, 8, 438.	5.7	27
151	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
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.	4.7	19
155	Electrospun nanofiber mats for evanescent optical fiber sensors. Sensors and Actuators B: Chemical, 2013, 176, 569-576.	7.8	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.	7.8	44
157	Optical Fiber Sensors Based on Lossy Mode Resonances. Smart Sensors, Measurement and Instrumentation, 2013, , 191-210.	0.6	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.	5.2	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.	3.3	34
165	Mode transition in complex refractive index coated single-modeâ€“multimodeâ€“single-mode structure. Optics Express, 2013, 21, 12668.	3.4	34
166	Tunable electro-optic wavelength filter based on lossy-guided mode resonances. Optics Express, 2013, 21, 31668.	3.4	22
167	Development of a Low Mobility IEEE 802.15.4 Compliant VANET System for Urban Environments. Sensors, 2013, 13, 7065-7078.	3.8	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.	0.1	3
170	Design rules for lossy mode resonance based sensors. Applied Optics, 2012, 51, 4298.	1.8	177
171	Optical fiber refractometers based on indium tin oxide coatings fabricated by sputtering. Optics Letters, 2012, 37, 28.	3.3	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.	2.6	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.	4.7	6
176	Optical Fiber Sensors Array to Identify Beverages by Their Odor. IEEE Sensors Journal, 2012, 12, 3156-3162.	4.7	13
177	Fiber-optic biosensor based on lossy mode resonances. Sensors and Actuators B: Chemical, 2012, 174, 263-269.	7.8	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.	7.8	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.	4.7	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.	4.7	28
182	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
183	Volatile organic compounds optical fiber sensor based on lossy mode resonances. Sensors and Actuators B: Chemical, 2012, 173, 523-529.	7.8	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.	7.8	15
185	An antibacterial submicron fiber mat with in situ synthesized silver nanoparticles. Journal of Applied Polymer Science, 2012, 126, 1228-1235.	2.6	26
186	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
187	Single-stage in situ synthesis of silver nanoparticles in antibacterial self-assembled overlays. Colloid and Polymer Science, 2012, 290, 785-792.	2.1	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.	0.7	12
189	Optical fiber refractometers with response in the visible spectral region by means ITO coatings. Optica Pura Y Aplicada, 2012, 45, 183-187.	0.1	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.	4.7	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.	2.5	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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199	Optical Fiber Humidity Sensors Using PVdF Electrospun Nanowebs. IEEE Sensors Journal, 2011, 11, 2383-2387.	4.7	69
200	Integration of hybrid sensing networks in indoor intelligent homes. , 2011, , .		1
201	Optical Fiber Humidity Sensor Based on Lossy Mode Resonances Supported by TiO2/PSS Coatings. Procedia Engineering, 2011, 25, 1385-1388.	1.2	30
202	An antibacterial coating based on a polymer/sol-gel hybrid matrix loaded with silver nanoparticles. Nanoscale Research Letters, 2011, 6, 305.	5.7	80
203	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
204	Optimization of single mode fibre sensors to detect organic vapours. Sensors and Actuators B: Chemical, 2011, 157, 388-394.	7.8	13
205	Resonance-based optical fiber refractometers. , 2011, , .		0
206	Thin-Film Resonance Supporting Coatings Deposited onto Optical Waveguides Towards the Fabrication of Sensing Devices. Recent Patents on Materials Science, 2011, 4, 28-34.	0.5	3
207	Lossy-mode resonance-based refractometers by means of indium oxide coatings fabricated onto optical fibers. Proceedings of SPIE, 2010, , .	0.8	5
208	Editorial Special Issue on Photonic Crystal-Based Sensors. IEEE Sensors Journal, 2010, 10, 1167-1168.	4.7	0
209	Sensing properties of ITO coated optical fibers to diverse VOCs. Procedia Engineering, 2010, 5, 653-656.	1.2	7
210	Optical fiber sensors based on Layer-by-Layer nanostructured films. Procedia Engineering, 2010, 5, 1087-1090.	1.2	19
211	Lossy mode resonances supported by TiO2 -coated optical fibers. Procedia Engineering, 2010, 5, 1099-1102.	1.2	15
212	Tunable humidity sensor based on ITO-coated optical fiber. Sensors and Actuators B: Chemical, 2010, 146, 414-417.	7.8	126
213	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
214	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
215	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
216	Humidity sensor based on a long-period fiber grating coated with a hydrophobic thin film. Proceedings of SPIE, 2010, , .	0.8	6

#	Article	IF	Citations
217	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
218	LMR-based optical fiber refractometers based on transparent conducting and semiconducting oxide coatings: a comparative study. Proceedings of SPIE, 2010, , .	0.8	7
219	Dual-Peak Resonance-Based Optical Fiber Refractometers. IEEE Photonics Technology Letters, 2010, 22, 1778-1780.	2.5	43
220	Optical fiber refractometers based on lossy mode resonances supported by TiO_2 coatings. Applied Optics, 2010, 49, 3980.	2.1	118
221	Resonances in coated long period fiber gratings and cladding removed multimode optical fibers: a comparative study. Optics Express, 2010, 18, 20183.	3.4	28
222	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
223	Generation of Lossy Mode Resonances With Absorbing Thin-Films. Journal of Lightwave Technology, 2010, , .	4.6	30
224	ITO Coated Optical Fiber Refractometers Based on Resonances in the Infrared Region. IEEE Sensors Journal, 2010, 10, 365-366.	4.7	65
225	Optical Fiber Refractometers with Tunable Sensitivity Based on Indium Tin Oxide Coatings. Sensor Letters, 2010, 8, 744-746.	0.4	8
226	Optical Fiber Sensors to Detect Volatile Organic Compound in Sick Building Syndrome Applications. Open Construction and Building Technology Journal, 2010, 4, 113-120.	0.7	7
227	Photonic Crystal Fiber Temperature Sensor Based on Quantum Dot Nanocoatings. Journal of Sensors, 2009, 2009, 1-6.	1.1	46
228	Resonance based optical fiber sensors by means of transparent conductive oxide coatings. , 2009, , .		0
229	Fiber-optic pH sensors fabrication based on selective deposition of Neutral Red. , 2009, , .		1
230	Organic vapors detection using single mode fiber at third telecommunication window. , 2009, , .		1
231	Optical fiber humidity sensor based on surface plasmon resonance in the infra-red region. Proceedings of SPIE, 2009, , .	0.8	4
232	Optical fiber sensors based on indium tin oxide surface plasmon resonance supporting coatings. , 2009, , .		1
233	Quantum Dots for Sensing. , 2009, , 1-51.		3
234	Nanofilm-based optical fiber sensor schemes. , 2009, , .		0

#	Article	IF	Citations
235	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
236	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
237	Mercury optical fibre probe based on a modified cladding of sensitised Al2O3 nano-particles. Sensors and Actuators B: Chemical, 2009, 143, 103-110.	7.8	9
238	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
239	Sensitivity Improvement of a Humidity Sensor Based on Silica Nanospheres on a Long-Period Fiber Grating. Sensors, 2009, 9, 519-527.	3.8	32
240	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
241	Laterally selective adsorption of pH sensing coatings based on neutral red by means of the electric field directed layer-by-layer self assembly method. Thin Solid Films, 2009, 517, 3776-3780.	1.8	8
242	STUDY OF SUPERHYDROPHILIC NANOPARTICLE-BASED ULTRA-THIN FILMS TOWARDS THE DEVELOPMENT OF OPTICAL FIBER HUMIDITY SENSORS. International Journal on Smart Sensing and Intelligent Systems, 2009, 2, 63-74.	0.7	0
243	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
244	Indicator immobilization on Fabry-Perot nanocavities towards development of fiber optic sensors. Sensors and Actuators B: Chemical, 2008, 130, 158-163.	7.8	21
245	Fiber optic glucose sensor based on bionanofilms. Sensors and Actuators B: Chemical, 2008, 131, 633-639.	7.8	19
246	Tapered optical fiber biosensor for the detection of anti-gliadin antibodies. Sensors and Actuators B: Chemical, 2008, 135, 166-171.	7.8	54
247	Optical Fiber Humidity Sensors Using Nanostructured Coatings of SiO$_{2}$ Nanoparticles. IEEE Sensors Journal, 2008, 8, 281-285.	4.7	70
248	Optical Fibre Humidity Sensors Using Nano-films. Lecture Notes in Electrical Engineering, 2008, , 153-177.	0.4	6
249	Encapsulated Quantum Dot Nanofilms Inside Hollow Core Optical Fibers for Temperature Measurement. IEEE Sensors Journal, 2008, 8, 1368-1374.	4.7	17
250	Quantum Dots coatings inside Photonic Crystal Fibers for temperature sensing. , 2008, , .		1
251	Humidity sensor based on a long-period fiber grating coated with a SiO 2 -nanosphere film. , 2008, , .		1
252	Optical fiber sensor toward pyridine vapors detection. , 2008, , .		2

#	Article	IF	Citations
253	Two nanoFabry-Perot interferometers for humidity sensing. , 2008, , .		1
254	Two-Layer Nanocoatings in Long-Period Fiber Gratings for Improved Sensitivity of Humidity Sensors. IEEE Nanotechnology Magazine, 2008, 7, 394-400.	2.0	40
255	Experimental results of antigliadin antibodies detection using long period fiber grating. Proceedings of SPIE, 2008, , .	0.8	1
256	Fiber-Optic Chemical Nanosensors by Electrostatic Molecular Self- Assembly. Current Analytical Chemistry, 2008, 4, 341-355.	1.2	17
257	Editorial Optical Fiber Sensor Technology and Applications. IEEE Sensors Journal, 2008, 8, 1052-1054.	4.7	32
258	Pyridine Vapors Detection by an Optical Fibre Sensor. Sensors, 2008, 8, 847-859.	3.8	29
259	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
260	Obligations: Building a Bridge between Personal and Enterprise Privacy in Pervasive Computing. Lecture Notes in Computer Science, 2008, , 173-184.	1.3	3
261	DETECTION OF VOLATILE ORGANIC COMPOUNDS BASED ON OPTICAL FIBRE USING NANOSTRUCTURED FILMS. International Journal on Smart Sensing and Intelligent Systems, 2008, 1, 123-136.	0.7	4
262	Amplitude Interference Immune pH Sensing Devices Based on White Light Interferometry. , 2008, , .		0
263	Fibre Bragg gratings with one defect towards development of optical networks interrogators. International Journal of Intelligent Systems Technologies and Applications, 2007, 3, 119.	0.2	0
264	Disappearing for a while - using white lies in pervasive computing. , 2007, , .		8
265	Fiber optic temperature sensor depositing quantum dots inside hollow core fibers using the layer by layer technique. Proceedings of SPIE, 2007, , .	0.8	8
266	Spectral characteristics in long-period fiber gratings with nonuniform symmetrically ring shaped coatings. Applied Physics Letters, 2007, 90, 141105.	3.3	6
267	Study on White Light Optical Fiber Interferometry for pH Sensor Applications. , 2007, , .		3
268	Non-uniform nano-coated long-period fiber gratings for sensing applications. Proceedings of SPIE, 2007, , .	0.8	0
269	Optical fiber pH sensor based on poly (p-phenylene vinylene). Proceedings of SPIE, 2007, , .	0.8	0
270	Optical fiber sensors based on nanostructured coatings fabricated by means of the layer-by-layer electrostatic self-assembly method. , 2007, , .		2

#	Article	IF	Citations
271	Optical fiber pH sensors based on self-assembled multilayered neutral red coatings. Proceedings of SPIE, 2007, , .	0.8	1
272	Fiber-optic pH-sensors in long-period fiber gratings using electrostatic self-assembly. Optics Letters, 2007, 32, 29.	3.3	78
273	Fringe generation with non-uniformly coated long-period fiber gratings. Optics Express, 2007, 15, 9326.	3.4	29
274	Evanescent Field Fiber-Optic Sensors for Humidity Monitoring Based on Nanocoatings. IEEE Sensors Journal, 2007, 7, 89-95.	4.7	53
275	Design of pH Sensors in Long-Period Fiber Gratings Using Polymeric Nanocoatings. IEEE Sensors Journal, 2007, 7, 455-463.	4.7	75
276	Tapered Optical Fiber Biosensor for the Detection of Anti-Gliadin Antibodies. , 2007, , .		3
277	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
278	Minimizing the photobleaching of self-assembled multilayers for sensor applications. Sensors and Actuators B: Chemical, 2007, 126, 41-47.	7.8	30
279	Application of gold complexes in the development of sensors for volatile organic compounds. Gold Bulletin, 2007, 40, 225-233.	2.7	20
280	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
281	Towards Personal Privacy Control. , 2007, , 886-895.		2
282	Enhanced Sensitivity in Humidity Sensors based on Long Period Fiber Gratings. , 2006, , .		5
283	Nonadiabatic tapered single-mode fiber coated with humidity sensitive nanofilms. IEEE Photonics Technology Letters, 2006, 18, 935-937.	2.5	49
284	Generation of selective fringes with cascaded long-period gratings. IEEE Photonics Technology Letters, 2006, 18, 1412-1414.	2.5	6
285	Nanostructured optical fibre sensors for breathing airflow monitoring. Measurement Science and Technology, 2006, 17, 1207-1210.	2.6	37
286	Quantum Dots-Based Optical Fiber Temperature Sensors Fabricated by Layer-by-Layer. IEEE Sensors Journal, 2006, 6, 1378-1379.	4.7	56
287	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
288	Influence on cladding mode distribution of overlay deposition on long-period fiber gratings: errata. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 2969.	1.5	1

#	ARTICLE	IF	CITATIONS
289	Spectral evolution with incremental nanocoating of long period fiber gratings. Optics Express, 2006, 14, 11972.	3.4	21
290	Nanofilms on hollow core fiber-based structures: an optical study. Journal of Lightwave Technology, 2006, 24, 2100-2107.	4.6	24
291	Design of Humidity Sensors Based on Tapered Optical Fibers. Journal of Lightwave Technology, 2006, 24, 4329-4336.	4.6	118
292	Development of an In-Fiber Nanocavity Towards Detection of Volatile Organic Gases. Sensors, 2006, 6, 578-592.	3.8	26
293	Vibration monitoring in electrical engines using an in-line fiber etalon. Sensors and Actuators A: Physical, 2006, 132, 506-515.	4.1	21
294	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
295	Deposition of coatings on long-period fiber gratings: tunnel effect analogy. Optical and Quantum Electronics, 2006, 38, 655-665.	3.3	18
296	Volatile alcoholic compounds fibre optic nanosensor. Sensors and Actuators B: Chemical, 2006, 115, 444-449.	7.8	65
297	Nanofilms on a hollow core fiber. Optical Engineering, 2006, 45, 050503.	1.0	3
298	Fiber optic glucose biosensor. Optical Engineering, 2006, 45, 104401.	1.0	17
299	Unbalance and harmonics detection in induction motors using an optical fiber sensor. IEEE Sensors Journal, 2006, 6, 605-612.	4.7	41
300	Volatile Organic Compound Optical Fiber Sensors: A Review. Sensors, 2006, 6, 1440-1465.	3.8	165
301	Long-Period Fiber Grating Sensors Based on Deposition of Low-Refractive Index Materials. , 2006, , .		0
302	A User-Centric Privacy Framework for Pervasive Environments. Lecture Notes in Computer Science, 2006, , 1347-1356.	1.3	3
303	Nanorefractometer based on deposition of an overlay on a long period fiber grating. , 2005, 5855, 840.		3
304	Nanostructured optical fiber sensors for breathing airflow monitoring. , 2005, , .		2
305	Improvements in self-assembled optical fiber-based biosensors. , 2005, , .		0
306	Self-assembled nanostructured optical fiber sensors (Invited Paper). , 2005, , .		1

#	Article	IF	Citations
307	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
308	Optical fibre sensors based on vapochromic gold complexes for environmental applications. Sensors and Actuators B: Chemical, 2005, 108, 535-541.	7.8	39
309	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
310	Fiber optic ammonia sensing employing novel thermoplastic polyurethane membranes. Sensors and Actuators B: Chemical, 2005, 105, 419-424.	7.8	22
311	Fourier modal methods for modeling optical dielectric waveguides. Optical and Quantum Electronics, 2005, 37, 107-119.	3.3	43
312	Unbalance Detection in Electrical Engines Using an In-Line Fiber Etalon. , 2005, , .		2
313	Ammonia optical fiber sensor based on self-assembled zirconia thin films. Smart Materials and Structures, 2005, 14, 739-744.	3.5	29
314	ESA-Based In-Fiber Nanocavity for Hydrogenâ€“Peroxide Detection. IEEE Nanotechnology Magazine, 2005, 4, 187-193.	2.0	38
315	Nanodeposition of materials with complex refractive index in long-period fiber gratings. Journal of Lightwave Technology, 2005, 23, 4192-4199.	4.6	75
316	Optimization of sensitivity in Long Period Fiber Gratings with overlay deposition. Optics Express, 2005, 13, 56.	3.4	318
317	Deposition of overlays by electrostatic self-assembly in long-period fiber gratings. Optics Letters, 2005, 30, 720.	3.3	129
318	Enhancement of sensitivity in long-period fiber gratings with deposition of low-refractive-index materials. Optics Letters, 2005, 30, 2363.	3.3	48
319	Fiber-optic hydrogen peroxide nanosensor. IEEE Sensors Journal, 2005, 5, 365-371.	4.7	34
320	Long-period fiber gratings with overlay of variable refractive index. IEEE Photonics Technology Letters, 2005, 17, 1893-1895.	2.5	24
321	Electrical machine failure detection using an in-line fiber etalon. , 2005, 5855, 715.		0
322	Optical Communications in the Universidad Publica de Navarra. Fiber and Integrated Optics, 2004, 23, 97-108.	2.5	0
323	Electrostatic self-assembled thin films deposited on optical fiber long-period gratings for the fabrication of chemical sensors. , 2004, , .		3
324	Fiber-Optic Nanorefractometer Based on One-Dimensional Photonic-Bandgap Structures With Two Defects. IEEE Nanotechnology Magazine, 2004, 3, 293-299.	2.0	5

#	Article	IF	Citations
325	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
326	Optical fiber sensor for breathing diagnostics. , 2004, 5317, 167.		3
327	Nanosensor for detection of glucose. , 2004, , .		1
328	Molecules assembly toward fiber optic nanosensor development. , 2004, , .		0
329	Optical gateway for intelligent buildings: a new open-up window to the optical fibre sensors market?. , 2004, , .		1
330	Self-assembled nanostructured optical fiber strain and pressure sensors. , 2004, , .		0
331	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
332	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
333	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
334	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
335	Development of an optical refractometer by analysis of one-dimensional photonic bandgap structures with defects. Optics Letters, 2003, 28, 1099.	3.3	12
336	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
337	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
338	Transmitted Optical Power through a Tapered Single-Mode Fiber under Dynamic Bending Effects. Fiber and Integrated Optics, 2003, 22, 173-187.	2.5	13
339	Thermochromic-effect-based temperature optical fiber sensor for underwater applications. Optical Engineering, 2003, 42, 656.	1.0	13
340	Optical fiber sensors based on nanoscale self-assembly. , 2003, , .		0
341	Transmitted Optical Power through a Tapered Single-Mode Fiber under Dynamic Bending Effects. Fiber and Integrated Optics, 2003, 22, 173-187.	2.5	0
342	Multilayered self-assembled optical fiber sensors for biomedical applications. , 2003, , .		0

#	Article	IF	Citations
343	Optical Fiber Devices Based on Nanoscale Self-Assembly. Science and Engineering of Composite Materials, 2002, 10, 19-28.	1.4	6
344	<title>Multiplexed optical fiber sensors for humidity and chemical analysis</title>. , 2002, 4616, 47.		0
345	<title>Optical fiber sensors for breathing diagnostics</title>. , 2002, 4616, 14.		2
346	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
347	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
348	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
349	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
350	Fabrication of microgratings on the ends of standard optical fibers by the electrostatic self-assembly monolayer process. Optics Letters, 2001, 26, 131.	3.3	32
351	Low-cost optical amplitude modulator based on a tapered single-mode optical fiber. Applied Optics, 2001, 40, 228.	2.1	14
352	Optical fiber gas sensor based on self-assembled gratings. Journal of Lightwave Technology, 2001, 19, 1932-1937.	4.6	25
353	Self-assembled nanostructured optical fiber sensors. , 2001, , .		0
354	<title>Optical fiber-based sensor of harmful gas fabricated using the electronic self-assembly monolayer process</title>. , 2001, , .		2
355	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
356	Optical fiber humidity sensor using a nano Fabry-Perot cavity formed by electrostatic self-assembly. , 2000, , .		2
357	Optical fiber strain gauge based on a tapered single-mode fiber. Sensors and Actuators A: Physical, 2000, 79, 90-96.	4.1	46
358	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
359	Tapered optical-fiber-based pressure sensor. Optical Engineering, 2000, 39, 2241.	1.0	33
360	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

#	Article	IF	Citations
361	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
362	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
363	Optical fiber nanometer-scale Fabryâ€“Perot interferometer formed by the ionic self-assembly monolayer process. Optics Letters, 1999, 24, 596.	3.3	95
364	<title>Self-assembled optical fiber sensors</title>. , 1999, 3670, 74.		0
365	<title>Experimental results toward development of humidity sensors by using a hygroscopic material on biconically tapered optical fiber</title>. , 1998, , .		14
366	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
367	<title>Experimental design rules for implementing biconically tapered single mode optical fibre displacement sensors</title>. , 1998, , .		12
368	Optical memory effects in sol-gel gel-glass based thermochromic material. Optical Engineering, 1997, 36, 1766.	1.0	4
369	Optical intensity induced shutter in photochromic-doped sol-gel gel-glass waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 780-788.	2.9	6
370	Tapered optical-fiber temperature sensor. Microwave and Optical Technology Letters, 1996, 11, 93-95.	1.4	43
371	Design and application of double amplified recirculating ring structure for hybrid fibre buses. Optical and Quantum Electronics, 1995, 27, 847-857.	3.3	6
372	Gel-glass photochromic optical delay generator. , 1995, , .		1
373	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
374	Low cost electric field optical fiber detector. , 0, , .		3