Javier Goicoechea

List of Publications by Citations

67 papers	1,745 citations	26 h-index	40 g-index
76 ext. papers	2,033 ext. citations	4.5 avg, IF	4.86 L-index

#	Paper	IF	Citations
67	Nanomaterials for Functional Textiles and Fibers. *Nanoscale Research Letters*, **2015**, 10, 501	5	169
66	Optical sensors based on lossy-mode resonances. *Sensors and Actuators B: Chemical*, **2017**, 240, 174-185	8.5	113
65	Optical fiber pH sensors based on layer-by-layer electrostatic self-assembled Neutral Red. *Sensors and Actuators B: Chemical*, **2008**, 132, 305-311	8.5	100
64	Simultaneous measurement of humidity and temperature based on a partially coated optical fiber long period grating. *Sensors and Actuators B: Chemical*, **2016**, 227, 135-141	8.5	83
63	Optical fiber humidity sensors based on Localized Surface Plasmon Resonance (LSPR) and Lossy-mode resonance (LMR) in overlays loaded with silver nanoparticles. *Sensors and Actuators B: Chemical*, **2012**, 173, 244-249	8.5	69
62	An antibacterial coating based on a polymer/sol-gel hybrid matrix loaded with silver nanoparticles. *Nanoscale Research Letters*, **2011**, 6, 305	5	64
61	Vibration Detection Using Optical Fiber Sensors. *Journal of Sensors*, **2010**, 2010, 1-12	2	62
60	Detection of bacterial endotoxin in food: New planar interdigital sensors based approach. *Journal of Food Engineering*, **2013**, 114, 346-360	6	56
59	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	8.5	55
58	Effect of both protective and reducing agents in the synthesis of multicolor silver nanoparticles. *Nanoscale Research Letters*, **2013**, 8, 101	5	50
57	Optical Fiber Sensors Based on Nanoparticle-Embedded Coatings. *Journal of Sensors*, **2015**, 2015, 1-18	2	48
56	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	47
55	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	8.5	44
54	Quantum Dots-Based Optical Fiber Temperature Sensors Fabricated by Layer-by-Layer. *IEEE Sensors Journal*, **2006**, 6, 1378-1379	4	44
53	Photonic Crystal Fiber Temperature Sensor Based on Quantum Dot Nanocoatings. *Journal of Sensors*, **2009**, 2009, 1-6	2	41
52	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	38
51	Optical Fiber Sensors Based on Polymeric Sensitive Coatings. *Polymers*, **2018**, 10,	4.5	37

50	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. *Sensors*, **2017**, 17,	3.8	37
49	A Lossy Mode Resonance optical sensor using silver nanoparticles-loaded films for monitoring human breathing. *Sensors and Actuators B: Chemical*, **2013**, 187, 40-44	8.5	36
48	Response time enhancement of pH sensing films by means of hydrophilic nanostructured coatings. *Sensors and Actuators B: Chemical*, **2007**, 128, 138-144	8.5	36
47	Electrospun nanofiber mats for evanescent optical fiber sensors. *Sensors and Actuators B: Chemical*, **2013**, 176, 569-576	8.5	33
46	Layer-by-Layer Nano-assembly: A Powerful Tool for Optical Fiber Sensing Applications. *Sensors*, **2019**, 19,	3.8	32
45	Optical fiber sensors based on gold nanorods embedded in polymeric thin films. *Sensors and Actuators B: Chemical*, **2018**, 255, 2105-2112	8.5	31
44	From superhydrophilic to superhydrophobic surfaces by means of polymeric Layer-by-Layer films. *Applied Surface Science*, **2015**, 351, 1081-1086	6.7	30
43	Optical fiber resonance-based pH sensors using gold nanoparticles into polymeric layer-by-layer coatings. *Microsystem Technologies*, **2016**, 22, 1821-1829	1.7	27
42	Minimizing the photobleaching of self-assembled multilayers for sensor applications. *Sensors and Actuators B: Chemical*, **2007**, 126, 41-47	8.5	26
41	Sensitivity improvement of a humidity sensor based on silica nanospheres on a long-period fiber grating. *Sensors*, **2009**, 9, 519-27	3.8	25
40	Continuous Liquid-Level Sensor Based on a Long-Period Grating and Microwave Photonics Filtering Techniques. *IEEE Sensors Journal*, **2016**, 16, 1652-1658	4	24
39	Multicolor Layer-by-Layer films using weak polyelectrolyte assisted synthesis of silver nanoparticles. *Nanoscale Research Letters*, **2013**, 8, 438	5	24
38	An antibacterial submicron fiber mat with in situ synthesized silver nanoparticles. *Journal of Applied Polymer Science*, **2012**, 126, 1228-1235	2.9	21
37	Fiber-optic Lossy Mode Resonance Sensors. *Procedia Engineering*, **2014**, 87, 3-8		20
36	Optical fiber sensors based on Layer-by-Layer nanostructured films. *Procedia Engineering*, **2010**, 5, 1087-1090		17
35	Study and Optimization of Self-Assembled Polymeric Multilayer Structures with Neutral Red for pH Sensing Applications. *Journal of Sensors*, **2008**, 2008, 1-7	2	17
34	Hg Optical Fiber Sensor Based on LSPR Generated by Gold Nanoparticles Embedded in LBL Nano-Assembled Coatings. *Sensors*, **2019**, 19,	3.8	17
33	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	15

32	Generation of lossy mode resonances with different nanocoatings deposited on coverslips. *Optics Express*, **2020**, 28, 288-301	3.3	15
31	Single-stage in situ synthesis of silver nanoparticles in antibacterial self-assembled overlays. *Colloid and Polymer Science*, **2012**, 290, 785-792	2.4	14
30	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		14
29	Encapsulated Quantum Dot Nanofilms Inside Hollow Core Optical Fibers for Temperature Measurement. *IEEE Sensors Journal*, **2008**, 8, 1368-1374	4	11
28	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	11
27	Novel Highly Sensitive Protein Sensors Based on Tapered Optical Fibres Modified with Au-Based Nanocoatings. *Journal of Sensors*, **2016**, 2016, 1-11	2	9
26	Self-Referenced Optical Fiber Sensor for Hydrogen Peroxide Detection based on LSPR of Metallic Nanoparticles in Layer-by-Layer Films. *Sensors*, **2019**, 19,	3.8	8
25	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	2.2	8
24	Trends in the Implementation of Advanced Plasmonic Materials in Optical Fiber Sensors (2010–2020). *Chemosensors*, **2021**, 9, 64	4	7
23	Optical Fiber Sensors Based on Nanostructured Coatings **2009**, 1-27		6
22	Fiber optic temperature sensor depositing quantum dots inside hollow core fibers using the layer by layer technique **2007**,		6
21	A COMPARATIVE STUDY IN THE SENSITIVITY OF OPTICAL FIBER REFRACTOMETERS BASED ON THE INCORPORATION OF GOLD NANOPARTICLES INTO LAYERBY-LAYER FILMS. *International Journal on Smart Sensing and Intelligent Systems*, **2015**, 8, 822-841	0.4	6
20	Humidity sensor based on a long-period fiber grating coated with a hydrophobic thin film **2010**,		5
19	Sol-gel technology for antimicrobial textiles **2016**, 47-72		5
18	Optical Sensors for Corrosion Monitoring **2015**, 603-640		4
17	Optical fiber refractometers based on localized surface plasmon resonance (LSPR) and lossy mode resonance (LMR) **2014**,		4
16	Humidity sensor based on silver nanoparticles embedded in a polymeric coating **2011**,		3
15	Silicon carbide as a material-based high-impedance surface for enhanced absorption within ultra-thin metallic films. *Optics Express*, **2020**, 28, 31624-31636	3.3	3

List of Publications

14	Localized Surface Plasmon Resonance for Optical Fiber-Sensing Applications **2017**,		2
13	Nanocoated optical fibre for lossy mode resonance (LMR) sensors and filters **2015**,		2
12	Optical fiber pH sensor based on gold nanoparticles into polymeric coatings **2015**,		2
11	Quantum Dots for Sensing **2009**, 1-51		2
10	Study on White Light Optical Fiber Interferometry for pH Sensor Applications **2007**,		2
9	Coatings for Optical Fiber Sensors **2014**, 103-119		1
8	Optical sensor based on polymer electrospun nanofibers for sensing humidity **2011**,		1
7	Analyses of performance of novel sensors with different coatings for detection of Lipopolysaccharide **2011**,		1
6	Experimental results of antigliadin antibodies detection using long period fiber grating **2008**,		1
5	Optical fiber pH sensors based on self-assembled multilayered neutral red coatings **2007**,		1
4	An Optical Fiber Sensor for Hg2+ Detection Based on the LSPR of Silver and Gold Nanoparticles Embedded in a Polymeric Matrix as an Effective Sensing Material **2021**, 5,		1
3	Self-Referenced Optical Fiber Sensor Based on LSPR Generated by Gold and Silver Nanoparticles Embedded in Layer-by-Layer Nanostructured Coatings. *Chemosensors*, **2022**, 10, 77	4	1
2	Micro/nanodeposition techniques for enhanced optical fiber sensors **2021**, 531-573		0
1	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	0.4	