Aitor Urrutia Azcona

List of Publications by Year
in descending order

36	1,423	394286 19	552653 26
papers	citations	h-index	g-index

36	36	36	1880
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanomaterials for Functional Textiles and Fibers. Nanoscale Research Letters, 2015, 10, 501.	3.1	219
2	Optical sensors based on lossy-mode resonances. Sensors and Actuators B: Chemical, 2017, 240, 174-185.	4.0	182
3	A Comprehensive Review of Optical Fiber Refractometers: Toward a Standard Comparative Criterion. Laser and Photonics Reviews, 2019, 13, 1900094.	4.4	120
4	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.	4.0	115
5	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.	4.0	84
6	An antibacterial coating based on a polymer/sol-gel hybrid matrix loaded with silver nanoparticles. Nanoscale Research Letters, 2011, 6, 305.	3.1	80
7	Optical Fiber Sensors Based on Nanoparticle-Embedded Coatings. Journal of Sensors, 2015, 2015, 1-18.	0.6	70
8	Effect of both protective and reducing agents in the synthesis of multicolor silver nanoparticles. Nanoscale Research Letters, 2013, 8, 101.	3.1	61
9	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
10	Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. Sensors, 2017, 17, 2312.	2.1	48
11	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
12	Optical fiber sensors based on gold nanorods embedded in polymeric thin films. Sensors and Actuators B: Chemical, 2018, 255, 2105-2112.	4.0	37
13	Fiber-based early diagnosis of venous thromboembolic disease by label-free D-dimer detection. Biosensors and Bioelectronics: X, 2019, 2, 100026.	0.9	37
14	Electrospun nanofiber mats for evanescent optical fiber sensors. Sensors and Actuators B: Chemical, 2013, 176, 569-576.	4.0	36
15	Continuous Liquid-Level Sensor Based on a Long-Period Grating and Microwave Photonics Filtering Techniques. IEEE Sensors Journal, 2016, 16, 1652-1658.	2.4	33
16	Multicolor Layer-by-Layer films using weak polyelectrolyte assisted synthesis of silver nanoparticles. Nanoscale Research Letters, 2013, 8, 438.	3.1	27
17	An antibacterial submicron fiber mat with in situ synthesized silver nanoparticles. Journal of Applied Polymer Science, 2012, 126, 1228-1235.	1.3	26
18	Fiber-optic Lossy Mode Resonance Sensors. Procedia Engineering, 2014, 87, 3-8.	1.2	26

#	Article	IF	Citations
19	Labyrinth Metasurface Absorber for Ultraâ€Highâ€Sensitivity Terahertz Thin Film Sensing. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800375.	1.2	24
20	Lossy mode resonance sensors based on nanocoated multimode-coreless-multimode fibre. Sensors and Actuators B: Chemical, 2020, 304, 126955.	4.0	19
21	Single-stage in situ synthesis of silver nanoparticles in antibacterial self-assembled overlays. Colloid and Polymer Science, 2012, 290, 785-792.	1.0	16
22	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
23	Novel Highly Sensitive Protein Sensors Based on Tapered Optical Fibres Modified with Au-Based Nanocoatings. Journal of Sensors, 2016, 2016, 1-11.	0.6	13
24	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
25	Advances in Fiber Optic DNA-Based Sensors: A Review. IEEE Sensors Journal, 2021, 21, 12679-12691.	2.4	8
26	Humidity sensor based on a long-period fiber grating coated with a hydrophobic thin film. Proceedings of SPIE, 2010, , .	0.8	6
27	Humidity sensor based on silver nanoparticles embedded in a polymeric coating. , 2011, , .		3
28	Micro/nanodeposition techniques for enhanced optical fiber sensors. , 2021, , 531-573.		3
29	Nanocoated optical fibre for lossy mode resonance (LMR) sensors and filters. , 2015, , .		2
30	P2.4.16 Silver Nanoparticles Loaded Electrospun Nanofibers for Humidity Optical Fiber Sensing. , 2012, , .		2
31	Optical sensor based on polymer electrospun nanofibers for sensing humidity. , 2011, , .		1
32	Labyrinth Metasurface-based Devices for High-sensitivity Thin Film Sensing. , 2019, , .		0
33	P2.3.6 An optical resonance sensor using silver nanoparticlesloaded films for monitoring human breathing. , 2012, , .		0
34	Fiber optic sensors based on lossy mode resonances. , 2014, , .		0
35	Fiber-optics: a new route towards ultra-low detection limit label-free biosensing. , 2019, , .		0
36	Lossy Mode Resonance Excitation in Fiber-Optics: Applications in Biosensing. , 2020, , .		0