

# Maria Cruz Navarrete Fernandez

## List of Publications by Year in descending order

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23  
papers

668  
citations

516561

16  
h-index

642610

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

684  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ salinity measurements in seawater with a fibre-optic probe. <i>Measurement Science and Technology</i> , 2006, 17, 2227-2232.	1.4	62
2	High-sensitive SPR sensing with Indium Nitride as a dielectric overlay of optical fibers. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 372-376.	4.0	61
3	Plasmonic sensor based on tapered optical fibers and magnetic fluids for measuring magnetic fields. <i>Sensors and Actuators A: Physical</i> , 2017, 264, 58-62.	2.0	61
4	Refractive index sensing of aqueous media based on plasmonic resonance in tapered optical fibres operating in the 1.5-1.4 μm region. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 195-198.	4.0	60
5	Surface plasmon resonance in the visible region in sensors based on tapered optical fibers. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 881-885.	4.0	52
6	A Polarization-Independent SPR Fiber Sensor. <i>Plasmonics</i> , 2010, 5, 7-12.	1.8	45
7	Improved performance of SPR sensors by a chemical etching of tapered optical fibers. <i>Optics and Lasers in Engineering</i> , 2011, 49, 1065-1068.	2.0	39
8	Surface plasmon resonance sensors based on uniform-waist tapered fibers in a reflective configuration. <i>Applied Optics</i> , 2006, 45, 7294.	2.1	38
9	Surface plasmon excitation in fiber-optics sensors: a novel theoretical approach. <i>Journal of Lightwave Technology</i> , 2002, 20, 448-453.	2.7	35
10	Multiple surface-plasmon resonance in uniform-waist tapered optical fibers with an asymmetric double-layer deposition. <i>Applied Optics</i> , 2005, 44, 519.	2.1	32
11	Sensing properties of asymmetric double-layer-covered tapered fibers. <i>Applied Optics</i> , 2004, 43, 1615.	2.1	31
12	Plasmonic Sensors Based on Doubly-Deposited Tapered Optical Fibers. <i>Sensors</i> , 2014, 14, 4791-4805.	2.1	29
13	Advanced Plasmonic Fiber-Optic Sensor for High Sensitivity Measurement of Magnetic Field. <i>IEEE Sensors Journal</i> , 2019, 19, 7355-7364.	2.4	26
14	Absorption as a selective mechanism in surface plasmon resonance fiber optic sensors. <i>Optics Letters</i> , 2006, 31, 3089.	1.7	19
15	Fibre-optic SPR sensor with a FBG interrogation scheme for readout enhancement. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 226-231.	4.0	17
16	Simple model of compound waveguide structures used as fiber-optic sensors. <i>Optics and Lasers in Engineering</i> , 2000, 33, 219-230.	2.0	16
17	Generation of Surface Plasmons at Waveguide Surfaces in the Mid-Infrared Region. <i>Plasmonics</i> , 2012, 7, 647-652.	1.8	16
18	Signal processing in SPR fiber sensors: Some remarks and a new method. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 150-156.	4.0	12

#	ARTICLE	IF	CITATIONS
19	Selectivity of SPR fiber sensors in absorptive media: An experimental evaluation. Sensors and Actuators B: Chemical, 2011, 160, 592-597.	4.0	9
20	Moving the wavelength detection range in surface plasmon resonance sensors based on tapered optical fibers. Proceedings of SPIE, 2010, , .	0.8	3
21	Theoretical method for the study of plasmon generation in hybrid multilayer-optical fiber structures. IEEE Sensors Journal, 2005, 5, 53-58.	2.4	2
22	Ellipsometric characterization of Bi and Al <sub>2</sub> O <sub>3</sub> coatings for plasmon excitation in an optical fiber sensor. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, .	0.6	2
23	Microfiber as light source for exciting fluorescence in a polymer optical fiber. Sensors and Actuators B: Chemical, 2016, 223, 30-34.	4.0	1