

Regina Allil

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

311
citations

9
h-index

17
g-index

38
ext. papers

406
ext. citations

3.6
avg, IF

3.61
L-index

#	Paper	IF	Citations
31	Cu ₂ O-functionalized plastic optical fiber for H ₂ S sensing. <i>Optical Fiber Technology</i> , 2021 , 62, 102469	2.4	1
30	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-8	5.2	5
29	Simulation and experimental study of FBG-based magnetic field sensors with Terfenol-D composites in different geometric shapes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 172, 108893	4.6	9
28	. <i>IEEE Sensors Journal</i> , 2021 , 21, 16670-16680	4	2
27	Detection of Bacillus anthracis and Bacillus anthracis-like spores in soil from state of Rio de Janeiro, Brazil. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2020 , 115, e200370	2.6	1
26	Fiber-Optic Current Sensor Based on FBG and Terfenol-D With Magnetic Flux Concentration for Enhanced Sensitivity and Linearity. <i>IEEE Sensors Journal</i> , 2020 , 20, 3572-3578	4	16
25	A Compact FBG-Based Magnetostrictive Optical Current Sensor With Reduced Mass of Terfenol-D. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1461-1464	2.2	10
24	Nanocrystalline tin oxide coatings on etched optical fiber Bragg grating for hydrogen sulfide detection. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 031502	2.9	2
23	Optical high-voltage sensor based on fiber Bragg gratings and stacked piezoelectric actuators for a.c. measurements. <i>Applied Optics</i> , 2019 , 58, 8322-8330	1.7	1
22	A Compact FBG-based Toroidal Magnetostrictive Current Sensor with Reduced Mass of Terfenol-D 2019 ,		1
21	Magnetic field sensor based on FBG and magnetostrictive composites of Terfenol-D with oriented magnetic domains 2019 ,		2
20	Disconnect Switch Position Sensor Based on FBG 2019 ,		1
19	Fiber-Optic Current Sensor Based on FBG and Optimized Magnetostrictive Composite. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1987-1990	2.2	7
18	U-shaped plastic optical fiber functionalized with metal oxides thin film for H ₂ S gas sensor applications 2018 ,		1
17	Inclination sensor based on FBG with enhanced sensitivity 2018 ,		4
16	Surface Plasmon Resonance and Bending Loss-Based U-Shaped Plastic Optical Fiber Biosensors. <i>Sensors</i> , 2018 , 18,	3.8	56
15	Temperature compensation method for FBG-based current sensors for transmission lines 2018 ,		2

14	Experimental evaluation of low-cost interrogation techniques for FBG sensors 2018 ,		4
13	Solar tracker development based on a POF bundle and Fresnel lens applied to environment illumination and microalgae cultivation. <i>Solar Energy</i> , 2018 , 174, 648-659	6.8	11
12	Plastic optical fiber immunosensor for fast detection of sulfate-reducing bacteria. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 125, 377-385	4.6	12
11	Sensitivity Analysis of Different Shapes of a Plastic Optical Fiber-Based Immunosensor for Escherichia coli: Simulation and Experimental Results. <i>Sensors</i> , 2017 , 17,	3.8	10
10	POF Biosensors Based on Refractive Index and Immunocapture Effect. <i>Smart Sensors, Measurement and Instrumentation</i> , 2017 , 69-93	0.3	1
9	Investigation of different shapes of plastic optical fiber sensor for refractometry and detection of bacteria 2015 ,		3
8	. <i>IEEE Sensors Journal</i> , 2015 , 15, 1338-1346	4	21
7	Plastic optical fiber-based biosensor platform for rapid cell detection. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 661-6	11.8	54
6	Detection and monitoring of leakage currents in distribution line insulators 2014 ,		3
5	Escherichia coli biosensors for environmental, food industry and biological warfare agent detection 2013 ,		1
4	Calibration and operation of a fibre Bragg grating temperature sensing system in a grid-connected hydrogenerator. <i>IET Science, Measurement and Technology</i> , 2013 , 7, 59-68	1.5	7
3	Development of an Optical Sensor Head for Current and Temperature Measurements in Power Systems. <i>Journal of Sensors</i> , 2013 , 2013, 1-12	2	6
2	Fiber Bragg grating temperature sensing system for large air cooled hydrogenerators 2011 ,		2
1	Optical High-Voltage Sensor Based on Fiber Bragg Grating and PZT Piezoelectric Ceramics. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 2118-2125	5.2	54