

# Regina Allil

## List of Publications by Citations

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**Version:** 2024-04-28

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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	Surface Plasmon Resonance and Bending Loss-Based U-Shaped Plastic Optical Fiber Biosensors. <i>Sensors</i> , <b>2018</b> , 18,	3.8	56
30	Plastic optical fiber-based biosensor platform for rapid cell detection. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 661-6	11.8	54
29	Optical High-Voltage Sensor Based on Fiber Bragg Grating and PZT Piezoelectric Ceramics. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2011</b> , 60, 2118-2125	5.2	54
28	. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 1338-1346	4	21
27	Fiber-Optic Current Sensor Based on FBG and Terfenol-D With Magnetic Flux Concentration for Enhanced Sensitivity and Linearity. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 3572-3578	4	16
26	Plastic optical fiber immunosensor for fast detection of sulfate-reducing bacteria. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 125, 377-385	4.6	12
25	Solar tracker development based on a POF bundle and Fresnel lens applied to environment illumination and microalgae cultivation. <i>Solar Energy</i> , <b>2018</b> , 174, 648-659	6.8	11
24	A Compact FBG-Based Magnetostrictive Optical Current Sensor With Reduced Mass of Terfenol-D. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 1461-1464	2.2	10
23	Sensitivity Analysis of Different Shapes of a Plastic Optical Fiber-Based Immunosensor for Escherichia coli: Simulation and Experimental Results. <i>Sensors</i> , <b>2017</b> , 17,	3.8	10
22	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> , <b>2021</b> , 172, 108893	4.6	9
21	Calibration and operation of a fibre Bragg grating temperature sensing system in a grid-connected hydrogenerator. <i>IET Science, Measurement and Technology</i> , <b>2013</b> , 7, 59-68	1.5	7
20	Fiber-Optic Current Sensor Based on FBG and Optimized Magnetostrictive Composite. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 1987-1990	2.2	7
19	Development of an Optical Sensor Head for Current and Temperature Measurements in Power Systems. <i>Journal of Sensors</i> , <b>2013</b> , 2013, 1-12	2	6
18	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-8	5.2	5
17	Inclination sensor based on FBG with enhanced sensitivity <b>2018</b> ,		4
16	Experimental evaluation of low-cost interrogation techniques for FBG sensors <b>2018</b> ,		4
15	Investigation of different shapes of plastic optical fiber sensor for refractometry and detection of bacteria <b>2015</b> ,		3

14	Detection and monitoring of leakage currents in distribution line insulators <b>2014</b> ,		3
13	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> , <b>2019</b> , 37, 031502	2.9	2
12	Fiber Bragg grating temperature sensing system for large air cooled hydrogenerators <b>2011</b> ,		2
11	Magnetic field sensor based on FBG and magnetostrictive composites of Terfenol-D with oriented magnetic domains <b>2019</b> ,		2
10	Temperature compensation method for FBG-based current sensors for transmission lines <b>2018</b> ,		2
9	. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 16670-16680	4	2
8	U-shaped plastic optical fiber functionalized with metal oxides thin film for H <sub>2</sub> S gas sensor applications <b>2018</b> ,		1
7	Escherichia coli biosensors for environmental, food industry and biological warfare agent detection <b>2013</b> ,		1
6	Optical high-voltage sensor based on fiber Bragg gratings and stacked piezoelectric actuators for a.c. measurements. <i>Applied Optics</i> , <b>2019</b> , 58, 8322-8330	1.7	1
5	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> , <b>2020</b> , 115, e200370	2.6	1
4	A Compact FBG-based Toroidal Magnetostrictive Current Sensor with Reduced Mass of Terfenol-D <b>2019</b> ,		1
3	POF Biosensors Based on Refractive Index and Immunocapture Effect. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2017</b> , 69-93	0.3	1
2	Cu <sub>2</sub> O-functionalized plastic optical fiber for H <sub>2</sub> S sensing. <i>Optical Fiber Technology</i> , <b>2021</b> , 62, 102469	2.4	1
1	Disconnect Switch Position Sensor Based on FBG <b>2019</b> ,		1