

Regina Allil

List of Publications by Year in descending order

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38
papers

527
citations

687220

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713332

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38
docs citations

38
times ranked

619
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Plasmon Resonance and Bending Loss-Based U-Shaped Plastic Optical Fiber Biosensors. <i>Sensors</i> , 2018, 18, 648.	2.1	84
2	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.	2.4	82
3	Plastic optical fiber-based biosensor platform for rapid cell detection. <i>Biosensors and Bioelectronics</i> , 2014, 54, 661-666.	5.3	67
4	Detection and Monitoring of Leakage Currents in Power Transmission Insulators. <i>IEEE Sensors Journal</i> , 2015, 15, 1338-1346.	2.4	44
5	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.	2.4	31
6	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.	2.5	22
7	A Compact FBG-Based Magnetostrictive Optical Current Sensor With Reduced Mass of Terfenol-D. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1461-1464.	1.3	21
8	FBG-Based Inclinometer for Landslide Monitoring in Tailings Dams. <i>IEEE Sensors Journal</i> , 2021, 21, 16670-16680.	2.4	21
9	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.	2.9	19
10	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.	0.9	15
11	Sensitivity Analysis of Different Shapes of a Plastic Optical Fiber-Based Immunosensor for <i>Escherichia coli</i> : Simulation and Experimental Results. <i>Sensors</i> , 2017, 17, 2944.	2.1	15
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.	2.5	15
13	FBG-Based Sensor Applied to Flow Rate Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	2.4	15
14	Fiber-Optic Current Sensor Based on FBG and Optimized Magnetostrictive Composite. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1987-1990.	1.3	12
15	Development of an Optical Sensor Head for Current and Temperature Measurements in Power Systems. <i>Journal of Sensors</i> , 2013, 2013, 1-12.	0.6	10
16	Detection and monitoring of leakage currents in distribution line insulators. , 2014, , .		6
17	Experimental evaluation of low-cost interrogation techniques for FBG sensors. , 2018, , .		6
18	Inclination sensor based on FBG with enhanced sensitivity. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
19	Cu2-O-functionalized plastic optical fiber for H2S sensing. Optical Fiber Technology, 2021, 62, 102469.	1.4	6
20	Nanocrystalline tin oxide coatings on etched optical fiber Bragg grating for hydrogen sulfide detection. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 031502.	0.9	4
21	Detection of Bacillus anthracis and Bacillus anthracis-like spores in soil from state of Rio de Janeiro, Brazil. Memórias Do Instituto Oswaldo Cruz, 2020, 115, e200370.	0.8	4
22	Investigation of different shapes of plastic optical fiber sensor for refractometry and detection of bacteria. , 2015, , .		3
23	Magnetic field sensor based on FBG and magnetostrictive composites of Terfenol-D with oriented magnetic domains. , 2019, , .		3
24	Fiberoptic Applications in Sensors and Telemetry for the Electric Power Industry. AIP Conference Proceedings, 2008, , .	0.3	2
25	Fiber Bragg grating temperature sensing system for large air cooled hydrogenerators. , 2011, , .		2
26	Temperature compensation method for FBG-based current sensors for transmission lines. , 2018, , .		2
27	U-shaped plastic optical fiber functionalized with metal oxides thin film for H ₂ S gas sensor applications. , 2018, , .		2
28	A Fiber-optic Current Sensor Based on FBG and Terfenol-D with Magnetic Flux Density Concentration. , 2019, , .		2
29	Optical high-voltage sensor based on fiber Bragg gratings and stacked piezoelectric actuators for ac measurements. Applied Optics, 2019, 58, 8322.	0.9	2
30	Escherichia coli biosensors for environmental, food industry and biological warfare agent detection. , 2013, , .		1
31	Disconnect Switch Position Sensor Based on FBG. , 2019, , .		1
32	POF Biosensors Based on Refractive Index and Immunocapture Effect. Smart Sensors, Measurement and Instrumentation, 2017, , 69-93.	0.4	1
33	A Compact FBG-based Toroidal Magnetostrictive Current Sensor with Reduced Mass of Terfenol-D. , 2019, , .		1
34	Diamond-like carbon thin film for tuned high sensitivity etched fiber Bragg grating refractometer. Proceedings of SPIE, 2015, , .	0.8	0
35	Immunobiosensor for fast detection of bacteria in water using plastic optical fiber (POF) bended. Proceedings of SPIE, 2015, , .	0.8	0
36	Plastic optical fiber sensors applied to electric energy industry. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	Optical H ₂ S sensor base on Cu ₂ -xO-Functionalized FBG. , 2020, , .		0
38	Nanoparticles based Plasmonic Biosensor. , 2018, , .		0