

Marcia Muller

List of Publications by Citations

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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.

55
papers

520
citations

11
h-index

21
g-index

86
ext. papers

644
ext. citations

2.2
avg, IF

3.38
L-index

#	Paper	IF	Citations
55	Determination of thermo-optic coefficient in liquids with fiber Bragg grating refractometer. <i>Optics Communications</i> , 2008 , 281, 621-625	2	80
54	Fiber optic sensors for hydrocarbon detection. <i>Sensors and Actuators B: Chemical</i> , 2005 , 105, 430-436	8.5	72
53	Metrological Evaluation of Optical Fiber Grating-Based Sensors: An Approach Towards the Standardization. <i>Journal of Lightwave Technology</i> , 2012 , 30, 1042-1052	4	31
52	Etched fiber bragg gratings sensors for water-ethanol mixtures: a comparative study. <i>Journal of Microwaves, Optoelectronics and Electromagnetic Applications</i> , 2010 , 9, 131-143	0.7	30
51	Application of a long-period fibre grating-based transducer in the fuel industry. <i>Measurement Science and Technology</i> , 2009 , 20, 034012	2	30
50	Salinity measurement in water environment with a long period grating based interferometer. <i>Measurement Science and Technology</i> , 2009 , 20, 034003	2	29
49	Functionalized Long Period Grating Plasmonic Fiber Sensor Applied to the Detection of Glyphosate in Water. <i>Journal of Lightwave Technology</i> , 2018 , 36, 863-870	4	15
48	Influence of the surrounding refractive index on the thermal and strain sensitivities of a cascaded long period grating. <i>Measurement Science and Technology</i> , 2007 , 18, 3111-3116	2	14
47	Bragg gratings in standard nonhydrogenated fibers for high-temperature sensing 2011 , 50, E55		13
46	Sparse Force Mapping System Based on Compressive Sensing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 830-836	5.2	12
45	Thermal characteristics of long-period gratings 266 nm UV-point-by-point induced. <i>Optics Communications</i> , 2009 , 282, 816-823	2	12
44	Plasmonic optical fiber sensors: enhanced sensitivity in water-based environments. <i>Applied Optics</i> , 2015 , 54, 8192-7	0.2	11
43	Spectroscopic Detection of Glyphosate in Water Assisted by Laser-Ablated Silver Nanoparticles. <i>Sensors</i> , 2017 , 17,	3.8	11
42	Control of the long period grating spectrum through low frequency flexural acoustic waves. <i>Measurement Science and Technology</i> , 2011 , 22, 045205	2	11
41	Alternative technique for biodiesel quality control using an optical fiber long-period grating sensor. <i>Quimica Nova</i> , 2007 , 30, 1677-1680	1.6	11
40	Production and characterization of refractive index gratings in high-birefringence fibre optics. <i>Optics and Lasers in Engineering</i> , 2003 , 39, 537-548	4.6	11
39	Etched FBG written in multimode fibers: sensing characteristics and applications in the liquid fuels sector. <i>Journal of Microwaves, Optoelectronics and Electromagnetic Applications</i> , 2015 , 14, 51-59	0.7	11

38	Long-term stability decay of standard and regenerated Bragg gratings tailored for high temperature operation. <i>Journal of Microwaves, Optoelectronics and Electromagnetic Applications</i> , 2013 , 12, 719-729	0.7	9
37	Influence of surrounding media refractive index on the thermal and strain sensitivities of long-period gratings. <i>Applied Optics</i> , 2007 , 46, 2831-7	1.7	9
36	Optical-Ultrasonic Heterogeneous Sensor Based on Soft-Computing Models. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015 , 64, 2338-2346	5.2	8
35	Light-Assisted Detection of Methanol in Contaminated Spirits. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4499-4505	4	7
34	Refractometric optical fiber sensor for measurement of ethanol concentration in ethanol-gasoline blend 2009 ,		7
33	Curvature vector smart sensing with a long-period fibre grating probed by artificial intelligence. <i>Measurement Science and Technology</i> , 2010 , 21, 094027	2	6
32	Fiber Bragg grating sensor to monitor stress kinetics in drying process of commercial latex paints. <i>Sensors</i> , 2010 , 10, 4761-76	3.8	6
31	Tailoring fiber grating sensors for assessment of highly refractive fuels. <i>Applied Optics</i> , 2012 , 51, 2015-22.7		6
30	Matching long-period grating modes and localized plasmon resonances: effect on the sensitivity of the grating to the surrounding refractive index. <i>Applied Optics</i> , 2016 , 55, 8979-8985	0.2	6
29	An approach to improve the spatial resolution of a force mapping sensing system. <i>Measurement Science and Technology</i> , 2016 , 27, 025103	2	5
28	Tactile Sensor Array with Fiber Bragg Gratings in Quasi-Distributed Sensing. <i>Journal of Sensors</i> , 2018 , 2018, 1-8	2	5
27	570 nm and 4.8 μ s emissions in Yb ²⁺ /CN ⁻ double doped KCl. <i>Journal of Luminescence</i> , 1994 , 59, 289-291	3.8	5
26	CR (III) and CR (VI) detection in water environment using an optical fiber grating sensor 2004 ,		4
25	Tuning of Citrate-Stabilized Laser Ablated Silver Nanoparticles for Glyphosate Detection. <i>IEEE Sensors Journal</i> , 2020 , 20, 1843-1850	4	4
24	A Smartphone Based Fiber Sensor for Recognizing Walking Patterns. <i>IEEE Sensors Journal</i> , 2019 , 19, 9782-9789		3
23	Strong and Broad 570 nm Emission in KCl: Yb ²⁺ :CN ⁻ <i>Physica Status Solidi (B): Basic Research</i> , 1993 , 180, K93-K96	1.3	3
22	Excitation characteristics of a wire-preionized, ultraviolet nitrogen laser. <i>Optics Communications</i> , 1988 , 66, 140-144	2	3
21	Smart optical fiber sensor for impact localization on planar structures 2013 ,		2

20	Fabrication and characterization of fiber Bragg grating based sensors for force measurements 2017		2
19	Multiplexing Optical Fiber Macro-Bend Load Sensors. <i>Journal of Lightwave Technology</i> , 2019 , 37, 4858-4863		1
18	Promoting optical fibre sensor technology with educational experimental setup. <i>Physics Education</i> , 2019 , 54, 045005	0.8	1
17	Thermally assisted sensor for conformity assessment of biodiesel production. <i>Measurement Science and Technology</i> , 2015 , 26, 025103	2	1
16	Double-slit interference with a caliper. <i>Physics Education</i> , 2020 , 55, 043004	0.8	1
15	Optical fiber sensor temperature coded for concentration measurement of oil/biodiesel blends. <i>Optical Fiber Technology</i> , 2013 , 19, 543-548	2.4	1
14	Functionalization of a long period grating coated with gold nanoparticles for glyphosate detection 2017 ,		1
13	Fiber optic sensor for methanol quantification in biodiesel 2014 ,		1
12	Bending sensing characteristics of long-period gratings UV-point-by-point induced in non-birefringent fibres 2009 ,		1
11	Sensing biodiesel and biodiesel-petrodiesel blends 2012 ,		1
10	Um experimento simples usado na produ de placas de zonas de Fresnel. <i>Revista Brasileira De Ensino De Fisica</i> , 2005 , 27, 603-608	0.4	1
9	Cu ⁺ and OH ⁻ pairs defects interaction in NaF crystals. <i>Radiation Effects and Defects in Solids</i> , 1995 , 134, 353-356	0.9	1
8	Smartphone Technology Applied in an Approach for Multiplexing of Fibre Optic Intensity-Modulated Macro-Bend Based Sensors 2018 ,		1
7	Kinetics of varnish long-term drying process monitored by a heterogeneous optical sensor system. <i>Measurement Science and Technology</i> , 2013 , 24, 094013	2	0
6	Ultraviolet and infrared spectroscopy of oh-/Cu ⁺ double doped NaF. <i>Radiation Effects and Defects in Solids</i> , 1995 , 133, 321-328	0.9	0
5	Protein-Bound Uremic Toxins Quantification by a Colorimetric Sensor Based on the Oxidation of Silver Nanoparticles. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	0
4	A high performance approach for parallel computing of fibre Bragg grating strain profiles using graphics processing units. <i>International Journal of High Performance Systems Architecture</i> , 2016 , 6, 197	0.9	
3	Optical fiber sensor for gasoline blend quality control 2004 , 5622, 194		

- 2 Solving the inverse scattering problem with differential evolution: an experimental validation. *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, **2018**, 17, 298-305 0.7
- 1 Effects of Birefringence on the Electromagnetic Guidance of Structures Produced by Femtosecond Laser. *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, **2018**, 17, 217-228 0.7