

Marcia Muller

List of Publications by Year in descending order

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86
papers

728
citations

623188

14
h-index

580395

25
g-index

86
all docs

86
docs citations

86
times ranked

792
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of thermo-optic coefficient in liquids with fiber Bragg grating refractometer. Optics Communications, 2008, 281, 621-625.	1.0	101
2	Fiber optic sensors for hydrocarbon detection. Sensors and Actuators B: Chemical, 2005, 105, 430-436.	4.0	87
3	Salinity measurement in water environment with a long period grating based interferometer. Measurement Science and Technology, 2009, 20, 034003.	1.4	44
4	Etched fiber bragg gratings sensors for water-ethanol mixtures: a comparative study. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2010, 9, 131-143.	0.4	39
5	Application of a long-period fibre grating-based transducer in the fuel industry. Measurement Science and Technology, 2009, 20, 034012.	1.4	38
6	Metrological Evaluation of Optical Fiber Grating-Based Sensors: An Approach Towards the Standardization. Journal of Lightwave Technology, 2012, 30, 1042-1052.	2.7	38
7	Functionalized Long Period Grating "Plasmonic Fiber Sensor Applied to the Detection of Glyphosate in Water. Journal of Lightwave Technology, 2018, 36, 863-870.	2.7	24
8	Spectroscopic Detection of Glyphosate in Water Assisted by Laser-Ablated Silver Nanoparticles. Sensors, 2017, 17, 954.	2.1	23
9	Influence of the surrounding refractive index on the thermal and strain sensitivities of a cascaded long period grating. Measurement Science and Technology, 2007, 18, 3111-3116.	1.4	20
10	Sparse Force Mapping System Based on Compressive Sensing. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 830-836.	2.4	20
11	Alternative technique for biodiesel quality control using an optical fiber long-period grating sensor. Quimica Nova, 2007, 30, 1677-1680.	0.3	19
12	Thermal characteristics of long-period gratings 266nm UV-point-by-point induced. Optics Communications, 2009, 282, 816-823.	1.0	17
13	Bragg gratings in standard nonhydrogenated fibers for high-temperature sensing. Applied Optics, 2011, 50, E55.	2.1	16
14	Long-term stability decay of standard and regenerated Bragg gratings tailored for high temperature operation. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2013, 12, 719-729.	0.4	15
15	Influence of surrounding media refractive index on the thermal and strain sensitivities of long-period gratings. Applied Optics, 2007, 46, 2831.	2.1	14
16	Control of the long period grating spectrum through low frequency flexural acoustic waves. Measurement Science and Technology, 2011, 22, 045205.	1.4	13
17	Plasmonic optical fiber sensors: enhanced sensitivity in water-based environments. Applied Optics, 2015, 54, 8192.	2.1	13
18	Tactile Sensor Array with Fiber Bragg Gratings in Quasi-Distributed Sensing. Journal of Sensors, 2018, 2018, 1-8.	0.6	13

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19	Tuning of Citrate-Stabilized Laser Ablated Silver Nanoparticles for Glyphosate Detection. IEEE Sensors Journal, 2020, 20, 1843-1850.	2.4	13
20	Etched FBG written in multimode fibers: sensing characteristics and applications in the liquid fuels sector. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2015, 14, 51-59.	0.4	13
21	Production and characterization of refractive index gratings in high-birefringence fibre optics. Optics and Lasers in Engineering, 2003, 39, 537-548.	2.0	11
22	Light-Assisted Detection of Methanol in Contaminated Spirits. Journal of Lightwave Technology, 2016, 34, 4499-4505.	2.7	11
23	A Smartphone Based Fiber Sensor for Recognizing Walking Patterns. IEEE Sensors Journal, 2019, 19, 9782-9789.	2.4	11
24	Refractometric optical fiber sensor for measurement of ethanol concentration in ethanol-gasoline blend. , 2009, , .		10
25	Curvature vector smart sensing with a long-period fibre grating probed by artificial intelligence. Measurement Science and Technology, 2010, 21, 094027.	1.4	9
26	Optical-Ultrasonic Heterogeneous Sensor Based on Soft-Computing Models. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2338-2346.	2.4	9
27	Fiber Bragg Grating Sensor to Monitor Stress Kinetics in Drying Process of Commercial Latex Paints. Sensors, 2010, 10, 4761-4776.	2.1	8
28	Tailoring fiber grating sensors for assessment of highly refractive fuels. Applied Optics, 2012, 51, 2015.	0.9	8
29	Matching long-period grating modes and localized plasmon resonances: effect on the sensitivity of the grating to the surrounding refractive index. Applied Optics, 2016, 55, 8979.	2.1	8
30	570 nm and 4.8 μ m emissions in Yb ²⁺ /CN- double doped KCl. Journal of Luminescence, 1994, 59, 289-291.	1.5	7
31	An approach to improve the spatial resolution of a force mapping sensing system. Measurement Science and Technology, 2016, 27, 025103.	1.4	6
32	<title>CR (III) and CR (VI) detection in water environment using an optical fiber grating sensor</title>. , 2004, , .		5
33	Multiplexing Optical Fiber Macro-Bend Load Sensors. Journal of Lightwave Technology, 2019, 37, 4858-4863.	2.7	5
34	Strong and Broad 570 nm Emission in KCl: Yb ²⁺ :CN ⁺ . Physica Status Solidi (B): Basic Research, 1993, 180, K93.	0.7	4
35	Characterization of an encapsulated long period grating transducer applied as a refractometer. , 2009, , .		4
36	Excitation characteristics of a wire-preionized, ultraviolet nitrogen laser. Optics Communications, 1988, 66, 140-144.	1.0	3

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37	Optical fiber sensor temperature coded for concentration measurement of oil-biodiesel blends. Optical Fiber Technology, 2013, 19, 543-548.	1.4	3
38	Optical fiber characterization by optical coherence tomography. , 2009, , .		2
39	Smart optical fiber sensor for impact localization on planar structures. , 2013, , .		2
40	Kinetics of varnish long-term drying process monitored by a heterogeneous optical sensor system. Measurement Science and Technology, 2013, 24, 094013.	1.4	2
41	Fabrication and characterization of fiber Bragg grating based sensors for force measurements. , 2017, , .		2
42	Ultraviolet and infrared spectroscopy of OH^-/Cu^+ double doped NaF. Radiation Effects and Defects in Solids, 1995, 133, 321-328.	0.4	1
43	CU^{+} and OH^{\cdot} pairs defects interaction in NaF crystals. Radiation Effects and Defects in Solids, 1995, 134, 353-356.	0.4	1
44	Um experimento simples usado na produĂo de placas de zonas de Fresnel. Revista Brasileira De Ensino De Fisica, 2005, 27, 603-608.	0.2	1
45	Application of Mach-Zehnder interferometer based on long period grating structure for salinity measurement in water environment. Proceedings of SPIE, 2008, , .	0.8	1
46	Bending sensing characteristics of long-period gratings UV-point-by-point induced in non-birefringent fibres. , 2009, , .		1
47	Optical sensor based on etched fiber Bragg gratings for assessment of biodiesel quality. , 2011, , .		1
48	Acousto-optic control of the LPG spectrum for sensing applications. Proceedings of SPIE, 2011, , .	0.8	1
49	Heterogeneous measurement system based on optical fiber and ultrasonic sensors to determine ethanol concentration. , 2011, , .		1
50	Sensing biodiesel and biodiesel-petrodiesel blends. , 2012, , .		1
51	Fiber optic sensor for methanol quantification in biodiesel. , 2014, , .		1
52	Smartphone-based portable intensity modulated force sensor. Proceedings of SPIE, 2015, , .	0.8	1
53	Thermally assisted sensor for conformity assessment of biodiesel production. Measurement Science and Technology, 2015, 26, 025103.	1.4	1
54	Functionalization of a long period grating coated with gold nanoparticles for glyphosate detection. , 2017, , .		1

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55	Sistema sensor com câçmera USB para uso em experimentos de polarizaÃ§ão da luz. Caderno Brasileiro De Ensino De FÃsica, 2017, 34, 636.	0.0	1
56	Promoting optical fibre sensor technology with educational experimental setup. Physics Education, 2019, 54, 045005.	0.3	1
57	Double-slit interference with a caliper. Physics Education, 2020, 55, 043004.	0.3	1
58	Protein-Bound Uremic Toxins Quantification by a Colorimetric Sensor Based on the Oxidation of Silver Nanoparticles. IEEE Sensors Journal, 2021, 21, 22651-22660.	2.4	1
59	Smartphone Technology Applied in an Approach for Multiplexing of Fibre Optic Intensity-Modulated Macro-Bend Based Sensors. , 2018, , .		1
60	<title>Polarization couplers in fibers with different core shapes</title>. , 2001, , .		0
61	<title>Optical fiber sensor for gasoline blend quality control</title>. , 2004, 5622, 194.		0
62	Nonlinear thermal sensitivity of a long-period grating. , 2007, , .		0
63	Kinetic of Long Period Gratings UV-Induced and Sensing Characteristics. AIP Conference Proceedings, 2008, , .	0.3	0
64	Application of artificial neural networks for conformity analysis of fuel performed with an optical fiber sensor. AIP Conference Proceedings, 2008, , .	0.3	0
65	Smart sensors for the petroleum sector based on long period gratings supervised by artificial neural networks. Proceedings of SPIE, 2008, , .	0.8	0
66	Fibre Bragg grating applied to monitor the stress evolution on drying time of latex paint. , 2009, , .		0
67	Fibre optic grating sensors for biofuels. Proceedings of SPIE, 2010, , .	0.8	0
68	Assessment of biodiesel-diesel blends with an optical fiber grating sensor. , 2011, , .		0
69	Etched fiber Bragg grating sensing system thermally assisted for analysis of water- ethanol mixtures. Proceedings of SPIE, 2011, , .	0.8	0
70	Uncertainties evaluation in optical fiber grating sensor measurements. Proceedings of SPIE, 2011, , .	0.8	0
71	Monitoring drying process of acrylic varnish with heterogeneous optical sensor. , 2012, , .		0
72	Polymer channel waveguide: Prospects of production and characterization. , 2013, , .		0

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73	An efficient method to determine strain profiles on FBGs by using differential evolution and GPU. , 2015, , .		0
74	Rapid detection of methanol in artisanal alcoholic beverages. , 2015, , .		0
75	A high performance approach for parallel computing of fibre Bragg grating strain profiles using graphics processing units. International Journal of High Performance Systems Architecture, 2016, 6, 197.	0.2	0
76	Effects from detuning the resonant coupling between fiber gratings and localized surface plasmons. Proceedings of SPIE, 2016, , .	0.8	0
77	Fabrication of a tactile sensor array with fiber Bragg gratings using a 3D printed mold. , 2017, , .		0
78	On the role of silver nanoparticles shape for SERS of Rhodamine. , 2018, , .		0
79	Solving the inverse scattering problem with differential evolution: an experimental validation. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2018, 17, 298-305.	0.4	0
80	Effects of Birefringence on the Electromagnetic Guidance of Structures Produced by Femtosecond Laser. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2018, 17, 217-228.	0.4	0
81	Influence of External Medium Refractive Index on the Waveguide Dispersion Factor and Thermo-Optic Coefficient of Cascaded Long-Period Gratings. , 2006, , .		0
82	Direct Inscription of Waveguides in Doped Lithium Niobate Crystal with Femtosecond Laser. , 2014, , .		0
83	Optical Study of Short-Term Polymerization Kinetics for Dental Resin Cement. , 2014, , .		0
84	Assessing Viscosity in Hydro-Erosive Grinding Process via Refractometry. SAE International Journal of Fuels and Lubricants, 0, 12, .	0.2	0
85	Plasmonic U-Shaped Optical Fiber Sensor for Glyphosate Detection in Water. , 2021, , .		0
86	Foot Type Recognition with Multiplexed Optical Fiber Macro-Bend Sensors. , 2021, , .		0