

Flavio Esposito

List of Publications by Year in descending order

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45
papers

875
citations

394286

19
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477173

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all docs

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docs citations

45
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Long period grating in double cladding fiber coated with graphene oxide as high-performance optical platform for biosensing. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112747.	5.3	100
2	Ultrasensitive biosensor based on long period grating coated with polycarbonate-graphene oxide multilayer. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 517-526.	4.0	73
3	Multi-parameter sensor based on single Long Period Grating in Panda fiber for the simultaneous measurement of SRI, temperature and strain. <i>Optics and Laser Technology</i> , 2019, 113, 198-203.	2.2	71
4	Label-Free Biosensors Based on Long Period Fiber Gratings: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 12692-12705.	2.4	64
5	Label-free detection of vitamin D by optical biosensing based on long period fiber grating. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130637.	4.0	48
6	Arc-Induced Long Period Gratings from Standard to Polarization-Maintaining and Photonic Crystal Fibers. <i>Sensors</i> , 2018, 18, 918.	2.1	45
7	Experimental Study of the Refractive Index Sensitivity in Arc-induced Long Period Gratings. <i>IEEE Photonics Journal</i> , 2017, 9, 1-10.	1.0	43
8	Single-Ended Long Period Fiber Grating Coated With Polystyrene Thin Film for Butane Gas Sensing. <i>Journal of Lightwave Technology</i> , 2018, 36, 825-832.	2.7	40
9	Sensitivity Enhancement in Long Period Gratings by Mode Transition in Uncoated Double Cladding Fibers. <i>IEEE Sensors Journal</i> , 2020, 20, 234-241.	2.4	37
10	Real-time analysis of arc-induced Long Period Gratings under gamma irradiation. <i>Scientific Reports</i> , 2017, 7, 43389.	1.6	35
11	Radiation Effects on Long Period Fiber Gratings: A Review. <i>Sensors</i> , 2020, 20, 2729.	2.1	35
12	Arc-induced Long Period Gratings in standard and speciality optical fibers under mixed neutron-gamma irradiation. <i>Scientific Reports</i> , 2017, 7, 15845.	1.6	28
13	Arc-Induced Long Period Gratings in Erbium-Doped Fiber. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	1.0	28
14	(INVITED)Chemical sensors based on long period fiber gratings: A review. <i>Results in Optics</i> , 2021, 5, 100196.	0.9	28
15	Sensing Characteristics of Arc-Induced Long Period Gratings in Polarization-Maintaining Panda Fiber. <i>IEEE Sensors Journal</i> , 2017, 17, 6953-6959.	2.4	27
16	Arc-Induced Long Period Gratings in Phosphorus-Doped Fiber. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 611-614.	1.3	26
17	Comparative Investigation of Gamma Radiation Effects on Long Period Gratings and Optical Power in Different Optical Fibers. <i>Journal of Lightwave Technology</i> , 2019, 37, 4560-4566.	2.7	26
18	Long Period Gratings in unconventional fibers for possible use as radiation dosimeter in high-dose applications. <i>Sensors and Actuators A: Physical</i> , 2018, 271, 223-229.	2.0	25

#	ARTICLE	IF	CITATIONS
19	Comparative Study of Long-Period Gratings Written in Standard and Fluorine-Doped Fibers by Electric Arc Discharge. IEEE Sensors Journal, 2016, 16, 4265-4273.	2.4	24
20	Liquefied Petroleum Gas Monitoring System Based on Polystyrene Coated Long Period Grating. Sensors, 2018, 18, 1435.	2.1	14
21	Arc-Induced Long Period Gratings in Polarization-Maintaining Panda Fiber. IEEE Photonics Technology Letters, 2017, , 1-1.	1.3	13
22	The Impact of Gamma Irradiation on Optical Fibers Identified Using Long Period Gratings. Journal of Lightwave Technology, 2023, 41, 4389-4396.	2.7	13
23	Real time and label-free detection of C-reactive protein in serum by long period grating in double cladding fiber. , 2021, , .		4
24	Influence of Period on Surrounding Refractive Index Sensitivity of Arc-induced Long Period Gratings. Procedia Engineering, 2016, 168, 999-1002.	1.2	3
25	Long period gratings written in fluorine-doped fibers by electric arc discharge technique. , 2016, , .		3
26	A New Setup for Real-Time Investigations of Optical Fiber Sensors Subjected to Gamma-Rays: Case Study on Long Period Gratings. Sensors, 2020, 20, 4129.	2.1	3
27	Gamma radiation effects on Long Period Gratings and transmitted power in different optical fibers: towards dosimetry applications. , 2018, , .		3
28	Arc-Induced Long Period Gratings in Fluorine-Doped Optical Fibers. , 2016, , .		2
29	Fabrication of arc-induced long-period gratings in different silica fibers. Proceedings of SPIE, 2017, , .	0.8	2
30	Fiber optic biosensor for inflammatory markers based on long period grating. , 2020, , .		2
31	Fabrication and characterization of long period gratings in pure-silica fibers. , 2019, , .		2
32	A New Orbiting Deployable System for Small Satellite Observations for Ecology and Earth Observation. Remote Sensing, 2022, 14, 2066.	1.8	2
33	Arc-Induced Long Period Gratings: Analysis of the Fabrication Parameters on the Surrounding Refractive Index Sensitivity. Springer Proceedings in Physics, 2017, , 355-360.	0.1	1
34	Sensing Features of Arc-induced Long Period Gratings. Proceedings (mdpi), 2019, 15, .	0.2	1
35	Long Period Fiber Grating Sensors Fabricated by Electric Arc Discharge Technique. Lecture Notes in Electrical Engineering, 2020, , 395-402.	0.3	1
36	Response of long period gratings to gamma and neutron-gamma radiations. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
37	Fabrication and characterization of arc-induced long period gratings in optical fibers with micro-channels. , 2020, , .		1
38	Fiber optic biosensor based on long period grating for the detection of vitamin D. , 2021, , .		1
39	Multi-parameter Sensor Based on Long Period Grating in Polarization-maintaining Panda Fiber. , 2019, , .		0
40	Long Period Grating in Panda fiber fabricated by Electric Arc Discharge technique as multi-parametric sensing device. , 2018, , .		0
41	Mode transition in uncoated long period gratings. , 2019, , .		0
42	Graphene oxide-functionalized long period grating for biosensing applications. , 2019, , .		0
43	Long period grating coated with graphene oxide as platform for optical fiber biosensors. , 2021, , .		0
44	Novel Long Period Gratings in Channeled Optical Fibers. , 2020, , .		0
45	Long Period Grating based Biosensing Technology for the Detection of Vitamin D3. , 2022, , .		0