

Agostino Iadicicco

List of Publications by Year in descending order

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129
papers

2,899
citations

147801

31
h-index

182427

51
g-index

132
all docs

132
docs citations

132
times ranked

1744
citing authors

#	ARTICLE	IF	CITATIONS
1	Thinned Fiber Bragg Gratings as High Sensitivity Refractive Index Sensor. IEEE Photonics Technology Letters, 2004, 16, 1149-1151.	2.5	290
2	Thinned fiber Bragg gratings as refractive index sensors. IEEE Sensors Journal, 2005, 5, 1288-1295.	4.7	134
3	Refractive index sensor based on microstructured fiber Bragg grating. IEEE Photonics Technology Letters, 2005, 17, 1250-1252.	2.5	106
4	Long period grating in double cladding fiber coated with graphene oxide as high-performance optical platform for biosensing. Biosensors and Bioelectronics, 2021, 172, 112747.	10.1	100
5	Cladding mode reorganization in high-refractive-index-coated long-period gratings: effects on the refractive-index sensitivity. Optics Letters, 2005, 30, 2536.	3.3	98
6	High-sensitivity optical chemosensor based on coated long-period gratings for sub-ppm chemical detection in water. Applied Physics Letters, 2005, 87, 234105.	3.3	97
7	Coated long-period fiber gratings as high-sensitivity optochemical sensors. Journal of Lightwave Technology, 2006, 24, 1776-1786.	4.6	91
8	Ultrasensitive biosensor based on long period grating coated with polycarbonate-graphene oxide multilayer. Sensors and Actuators B: Chemical, 2018, 274, 517-526.	7.8	73
9	Miniaturized Sensing Probes Based on Metallic Dielectric Crystals Self-Assembled on Optical Fiber Tips. ACS Photonics, 2014, 1, 917-927.	6.6	72
10	Multi-parameter sensor based on single Long Period Grating in Panda fiber for the simultaneous measurement of SRI, temperature and strain. Optics and Laser Technology, 2019, 113, 198-203.	4.6	71
11	Microstructured Fiber Bragg Gratings. Journal of Lightwave Technology, 2009, 27, 1663-1697.	4.6	69
12	Label-Free Biosensors Based on Long Period Fiber Gratings: A Review. IEEE Sensors Journal, 2021, 21, 12692-12705.	4.7	64
13	Resonant Hydrophones Based on Coated Fiber Bragg Gratings. Journal of Lightwave Technology, 2012, 30, 2472-2481.	4.6	63
14	Nonuniform thinned fiber Bragg gratings for simultaneous refractive index and temperature measurements. IEEE Photonics Technology Letters, 2005, 17, 1495-1497.	2.5	56
15	Optical chemo-sensor based on long period gratings coated with β -form syndiotactic polystyrene. IEEE Photonics Technology Letters, 2005, 17, 1713-1715.	2.5	53
16	Self temperature referenced refractive index sensor by non-uniform thinned fiber Bragg gratings. Sensors and Actuators B: Chemical, 2006, 120, 231-237.	7.8	52
17	Detection of thermal gradients through fiber-optic Chirped Fiber Bragg Grating (CFBG): Medical thermal ablation scenario. Optical Fiber Technology, 2018, 41, 48-55.	2.7	50
18	Sensitivity characteristics in nanosized coated long period gratings. Applied Physics Letters, 2006, 89, 201116.	3.3	48

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19	Long-Period Gratings in Hollow Core Fibers by Pressure-Assisted Arc Discharge Technique. IEEE Photonics Technology Letters, 2011, 23, 1567-1569.	2.5	48
20	Label-free detection of vitamin D by optical biosensing based on long period fiber grating. Sensors and Actuators B: Chemical, 2021, 347, 130637.	7.8	48
21	Arc-Induced Long Period Gratings from Standard to Polarization-Maintaining and Photonic Crystal Fibers. Sensors, 2018, 18, 918.	3.8	45
22	Experimental Study of the Refractive Index Sensitivity in Arc-induced Long Period Gratings. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	43
23	Spectral behavior in thinned long period gratings: effects of fiber diameter on refractive index sensitivity. Applied Optics, 2007, 46, 6945.	2.1	42
24	Single-Ended Long Period Fiber Grating Coated With Polystyrene Thin Film for Butane Gas Sensing. Journal of Lightwave Technology, 2018, 36, 825-832.	4.6	40
25	Photonic band-gap engineering in UV fiber gratings by the arc discharge technique. Optics Express, 2008, 16, 15332.	3.4	38
26	Temperature profile of <i>ex-vivo</i> organs during radio frequency thermal ablation by fiber Bragg gratings. Journal of Biomedical Optics, 2016, 21, 117003.	2.6	37
27	Sensitivity Enhancement in Long Period Gratings by Mode Transition in Uncoated Double Cladding Fibers. IEEE Sensors Journal, 2020, 20, 234-241.	4.7	37
28	Fabrication and Characterization of Long-Period Gratings in Hollow Core Fibers by Electric Arc Discharge. IEEE Sensors Journal, 2015, 15, 3014-3020.	4.7	36
29	Real-time analysis of arc-induced Long Period Gratings under gamma irradiation. Scientific Reports, 2017, 7, 43389.	3.3	35
30	Analysis and Design of Chirped Fiber Bragg Grating for Temperature Sensing for Possible Biomedical Applications. IEEE Photonics Journal, 2018, 10, 1-15.	2.0	35
31	Radiation Effects on Long Period Fiber Gratings: A Review. Sensors, 2020, 20, 2729.	3.8	35
32	Evanescent wave sensor based on permanently bent single mode optical fiber. Sensors and Actuators B: Chemical, 2011, 155, 903-908.	7.8	31
33	Arc-induced Long Period Gratings in standard and speciality optical fibers under mixed neutron-gamma irradiation. Scientific Reports, 2017, 7, 15845.	3.3	28
34	Arc-Induced Long Period Gratings in Erbium-Doped Fiber. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	28
35	Sensing Characteristics of Arc-Induced Long Period Gratings in Polarization-Maintaining Panda Fiber. IEEE Sensors Journal, 2017, 17, 6953-6959.	4.7	27
36	Characterization of Early Age Curing and Shrinkage of Metakaolin-Based Inorganic Binders with Different Rheological Behavior by Fiber Bragg Grating Sensors. Materials, 2018, 11, 10.	2.9	27

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37	Arc-Induced Long Period Gratings in Phosphorus-Doped Fiber. IEEE Photonics Technology Letters, 2017, 29, 611-614.	2.5	26
38	Comparative Investigation of Gamma Radiation Effects on Long Period Gratings and Optical Power in Different Optical Fibers. Journal of Lightwave Technology, 2019, 37, 4560-4566.	4.6	26
39	Micro-structured fiber Bragg gratings. Part I: Spectral characteristics. Optical Fiber Technology, 2007, 13, 281-290.	2.7	25
40	Micro-structured fiber Bragg gratings. Part II: Towards advanced photonic devices. Optical Fiber Technology, 2007, 13, 291-301.	2.7	25
41	Long Period Gratings in unconventional fibers for possible use as radiation dosimeter in high-dose applications. Sensors and Actuators A: Physical, 2018, 271, 223-229.	4.1	25
42	Multipoint Temperature Monitoring of Microwave Thermal Ablation in Bones through Fiber Bragg Grating Sensor Arrays. Sensors, 2020, 20, 3200.	3.8	25
43	Comparative Study of Long-Period Gratings Written in Standard and Fluorine-Doped Fibers by Electric Arc Discharge. IEEE Sensors Journal, 2016, 16, 4265-4273.	4.7	24
44	Thinned and micro-structured fibre Bragg gratings: towards new all-fibre high-sensitivity chemical sensors. Journal of Optics, 2005, 7, 734-741.	1.5	22
45	Structured Chirped Fiber Bragg Gratings. Journal of Lightwave Technology, 2008, 26, 1613-1625.	4.6	22
46	Not-lithographic fabrication of micro-structured fiber Bragg gratings evanescent wave sensors. Optics Express, 2009, 17, 1042.	3.4	22
47	Sensing Features of Long Period Gratings in Hollow Core Fibers. Sensors, 2015, 15, 8009-8019.	3.8	21
48	Fiber Optic Sensors-Based Thermal Analysis of Perfusion-Mediated Tissue Cooling in Liver Undergoing Laser Ablation. IEEE Transactions on Biomedical Engineering, 2021, 68, 1066-1073.	4.2	21
49	Fiber Bragg Grating Sensors for Temperature Monitoring During Thermal Ablation Procedure: Experimental Assessment of Artefact Caused by Respiratory Movements. IEEE Sensors Journal, 2021, 21, 13342-13349.	4.7	21
50	Self-Assembled Colloidal Photonic Crystal on the Fiber Optic Tip as a Sensing Probe. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	20
51	Fiber Optic Probe Based on Self-Assembled Photonic Crystal for Relative Humidity Sensing. Journal of Lightwave Technology, 2019, 37, 4610-4618.	4.6	20
52	Micro-structured fiber Bragg gratings: optimization of the fabrication process. Optics Express, 2007, 15, 15011.	3.4	18
53	Strain Monitoring of a Composite Drag Strut in Aircraft Landing Gear by Fiber Bragg Grating Sensors. Sensors, 2019, 19, 2239.	3.8	17
54	Study of Fiber Bragg Gratings Embedded in 3D-Printed Patches for Deformation Monitoring. IEEE Sensors Journal, 2020, 20, 13379-13386.	4.7	17

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55	Photonic bandgap influence on the SERS effect in metal-dielectric colloidal crystals optical fiber probe. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130149.	7.8	17
56	Deflection Monitoring of Bi-Dimensional Structures by Fiber Bragg Gratings Strain Sensors. <i>IEEE Sensors Journal</i> , 2019, 19, 4084-4092.	4.7	15
57	Investigation of the Heat Sink Effect During Microwave Ablation in Hepatic Tissue: Experimental and Numerical Analysis. <i>IEEE Sensors Journal</i> , 2021, 21, 22743-22751.	4.7	15
58	3D Shape Sensing With FBG-Based Patch: From the Idea to the Device. <i>IEEE Sensors Journal</i> , 2022, 22, 1338-1345.	4.7	15
59	Deflection Monitoring Method Using Fiber Bragg Gratings Applied to Tracking Particle Detectors. <i>IEEE Photonics Journal</i> , 2014, 6, 1-10.	2.0	14
60	Liquefied Petroleum Gas Monitoring System Based on Polystyrene Coated Long Period Grating. <i>Sensors</i> , 2018, 18, 1435.	3.8	14
61	Curvature Sensor Based on FBGs Embedded in 3D Printed Patches. <i>IEEE Sensors Journal</i> , 2021, 21, 17868-17874.	4.7	14
62	Multidimensional thermal mapping during radiofrequency ablation treatments with minimally invasive fiber optic sensors. <i>Biomedical Optics Express</i> , 2018, 9, 5891.	2.9	14
63	Arc-Induced Long Period Gratings in Polarization-Maintaining Panda Fiber. <i>IEEE Photonics Technology Letters</i> , 2017, , 1-1.	2.5	13
64	Fiber Bragg Grating Sensors for Real Time Monitoring of Early Age Curing and Shrinkage of Different Metakaolin-Based Inorganic Binders. <i>IEEE Sensors Journal</i> , 2019, 19, 6173-6180.	4.7	8
65	Mode coupling and field distribution in sub-mm permanently bent single mode optical fibers. <i>Optics and Laser Technology</i> , 2013, 47, 292-304.	4.6	7
66	Fiber Bragg Grating for Temperature Monitoring During Medical Radiofrequency Treatments. <i>Procedia Engineering</i> , 2016, 168, 1308-1311.	1.2	7
67	Fiber Bragg Grating Sensors - Advancements and Industrial Applications. <i>Advances in Science and Technology</i> , 2008, 55, 213-222.	0.2	6
68	Long Period Gratings in New Generation Optical Fibers. , 2012, , .		5
69	Porphyrim thin films on fiber optic probes through UV-light induced deposition. <i>Optics and Laser Technology</i> , 2013, 49, 279-283.	4.6	4
70	Lab on fiber by using the breath figure technique. <i>Proceedings of SPIE</i> , 2013, , .	0.8	4
71	Fiber Bragg grating sensors as a tool to evaluate the influence of filler on shrinkage of geopolymer matrices. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
72	Single and Multiple Phase Shifts Tilted Fiber Bragg Gratings. <i>Research Letters in Optics</i> , 2009, 2009, 1-4.	0.5	3

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73	Design and analysis of photonic quasi-crystal hollow core fibers. Proceedings of SPIE, 2013, , .	0.8	3
74	Strain measurements of a multilayer panel via Fiber Bragg gratings as novel approach for deflection monitoring of tracking particle detectors. Proceedings of SPIE, 2015, , .	0.8	3
75	Influence of Period on Surrounding Refractive Index Sensitivity of Arc-induced Long Period Gratings. Procedia Engineering, 2016, 168, 999-1002.	1.2	3
76	Temperature monitoring during thermal ablation on ex-vivo organs by Fiber Bragg gratings. , 2016, , .		3
77	Long period gratings written in fluorine-doped fibers by electric arc discharge technique. , 2016, , .		3
78	Measurements of temperature during thermal ablation treatments on ex vivo liver tissue using fiber Bragg grating sensors. , 2017, , .		3
79	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.	3.8	3
80	Miniaturized fiber optic probe based on colloid crystals of hydrogel coated nanoparticles for relative humidity measurements. , 2018, , .		3
81	Fiber Bragg Grating Evanescent Wave Sensors for Chemical and Biological Applications. , 2011, , 238-269.		3
82	Gamma radiation effects on Long Period Gratings and transmitted power in different optical fibers: towards dosimetry applications. , 2018, , .		3
83	Temperature and strain characterization of long period gratings in air guiding fiber. , 2013, , .		2
84	Ultrasensitive nanoprobe based on metallo-dielectric crystals integrated onto optical fiber tips using the breath figures technique. Proceedings of SPIE, 2013, , .	0.8	2
85	Measurement of temperature and early age shrinkage of alkali activated metakaolin using fiber Bragg grating sensors. , 2014, , .		2
86	FBG sensors for deformation monitoring of a tracking particle detector: preliminary results. Proceedings of SPIE, 2014, , .	0.8	2
87	Fiber Bragg Grating strain sensors for tracking particle detector. , 2014, , .		2
88	Characterization of Long Period Gratings in hollow core fiber fabricated via Electrode Arc Discharge. , 2014, , .		2
89	Lab on Fiber by Using the Breath Figure Technique. Springer Series in Surface Sciences, 2015, , 233-250.	0.3	2
90	Fabrication of arc-induced long-period gratings in different silica fibers. Proceedings of SPIE, 2017, , .	0.8	2

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91	Real-time temperature monitoring during radiofrequency treatments on ex-vivo animal model by fiber Bragg grating sensors. Proceedings of SPIE, 2017, , .	0.8	2
92	Temperature Monitoring during Radio Frequency Thermal Ablation Treatment on Ex Vivo perfused organ by Fiber Bragg Grating Sensors. , 2018, , .		2
93	Temperature Monitoring During Microwave Thermal Ablation of Ex Vivo Bovine Bone: a Pilot Test. , 2020, , .		2
94	Fiber optic biosensor for inflammatory markers based on long period grating. , 2020, , .		2
95	Temperature Monitoring by Fiber Bragg Gratings during Microwave Ablation of Ex Vivo Organs for Heat Sink Effect Assessment. , 2021, , .		2
96	Fabrication and characterization of long period gratings in pure-silica fibers. , 2019, , .		2
97	A New Orbiting Deployable System for Small Satellite Observations for Ecology and Earth Observation. Remote Sensing, 2022, 14, 2066.	4.0	2
98	Permanently bent single mode optical fiber as novel evanescent wave sensor. , 2010, , .		1
99	Long Period Grating in hollow core fibers: Fabrication and characterization. , 2011, , .		1
100	Porphyrin coated fiber optic probes for acid vapor detection. Proceedings of SPIE, 2013, , .	0.8	1
101	Sensing characteristics of long period gratings in hollow core fiber fabricated via electrode arc discharge. Proceedings of SPIE, 2014, , .	0.8	1
102	A simple Fabry-Perot pressure sensor fabricated on fiber optic tip. Proceedings of SPIE, 2016, , .	0.8	1
103	Arc-Induced Long Period Gratings: Analysis of the Fabrication Parameters on the Surrounding Refractive Index Sensitivity. Springer Proceedings in Physics, 2017, , 355-360.	0.2	1
104	Sensing Features of Arc-induced Long Period Gratings. Proceedings (mdpi), 2019, 15, .	0.2	1
105	Evaluation of the Thermal Response of Liver Tissue Undergoing Microwave Treatment by Means of Fiber Bragg Grating Sensors. , 2020, , .		1
106	Long Period Fiber Grating Sensors Fabricated by Electric Arc Discharge Technique. Lecture Notes in Electrical Engineering, 2020, , 395-402.	0.4	1
107	FBGs in 3D printed objects monitoring. , 2021, , .		1
108	Metallic-Dielectric colloidal photonic crystal on the multimode optical fiber tip: preliminary results as optical fiber SERS probe. , 2019, , .		1

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109	Response of long period gratings to gamma and neutron-gamma radiations. , 2019, , .		1
110	Optical fiber SERS probe achieved by colloidal photonic crystal and gold nano-particles. , 2019, , .		1
111	Fabrication and characterization of arc-induced long period gratings in optical fibers with micro-channels. , 2020, , .		1
112	Fiber optic biosensor based on long period grating for the detection of vitamin D. , 2021, , .		1
113	Strain and bending monitoring of a particle detector using Fiber Bragg Grating sensors. , 2014, , .		0
114	Sensing characteristics of Long Period Gratings in air-core photonic bandgap fibers. , 2014, , .		0
115	Modified electric arc discharge technique for fabrication of long period gratings in air-core fibers: Effect of air pressure inside fiber holes. , 2015, , .		0
116	Multi-parameter Sensor Based on Long Period Grating in Polarization-maintaining Panda Fiber. , 2019, , .		0
117	Relative Humidity Sensor Based on Tip of Multimode Optical Fiber Integrated with Photonic Crystal of Hydrogel Coated Polystyrene Nanoparticles. Lecture Notes in Electrical Engineering, 2020, , 403-408.	0.4	0
118	Two-Dimensional Deflection Maps by Using Fiber Bragg Grating Sensors. Lecture Notes in Civil Engineering, 2021, , 507-514.	0.4	0
119	Photonic Bandgap Engineering in FBGs by Post Processing Fabrication Technique. , 2011, , 53-77.		0
120	RESONANT HYDROPHONES BASED ON COATED FIBER BRAGG GRATINGS FOR UNDERWATER MONITORING. , 2013, , 145-174.		0
121	High Spatial Resolution Fiber Optic Sensors and Their Impact in Biomedical Measurements and Diagnostic. , 2018, , .		0
122	Long Period Grating in Panda fiber fabricated by Electric Arc Discharge technique as multi-parametric sensing device. , 2018, , .		0
123	Deflection monitoring method for two-dimensional structure based on fiber Bragg grating sensors measurements. , 2019, , .		0
124	Mode transition in uncoated long period gratings. , 2019, , .		0
125	Graphene oxide-functionalized long period grating for biosensing applications. , 2019, , .		0
126	Optical Fiber Tip Functionalized by Colloidal Photonic Crystal and Gold Nano-Particles for SERS Sensing. , 2020, , .		0

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127	Long period grating coated with graphene oxide as platform for optical fiber biosensors. , 2021, , .		0
128	Fiber Bragg gratings embedded in 3D-printed patches for sensitivity enhancement of deformation monitoring. , 2020, , .		0
129	Novel Long Period Gratings in Channeled Optical Fibers. , 2020, , .		0