Stefania Campopiano

List of Publications by Year
in descending order

138	2,297	201575 27	265120 42
papers	citations	h-index	g-index

139	139	139	1594
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Impact of Gamma Irradiation on Optical Fibers Identified Using Long Period Gratings. Journal of Lightwave Technology, 2023, 41, 4389-4396.	2.7	13
2	3D Shape Sensing With FBG-Based Patch: From the Idea to the Device. IEEE Sensors Journal, 2022, 22, 1338-1345.	2.4	15
3	A New Orbiting Deployable System for Small Satellite Observations for Ecology and Earth Observation. Remote Sensing, 2022, 14, 2066.	1.8	2
4	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.	2.5	21
5	Label-Free Biosensors Based on Long Period Fiber Gratings: A Review. IEEE Sensors Journal, 2021, 21, 12692-12705.	2.4	64
6	Long period grating in double cladding fiber coated with graphene oxide as high-performance optical platform for biosensing. Biosensors and Bioelectronics, 2021, 172, 112747.	5.3	100
7	Investigation of the Heat Sink Effect During Microwave Ablation in Hepatic Tissue: Experimental and Numerical Analysis. IEEE Sensors Journal, 2021, 21, 22743-22751.	2.4	15
8	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.	2.4	21
9	FBGs in 3D printed objects monitoring. , 2021, , .		1
10	Temperature Monitoring by Fiber Bragg Gratings during Microwave Ablation of Ex Vivo Organs for Heat Sink Effect Assessment. , 2021, , .		2
11	Curvature Sensor Based on FBGs Embedded in 3D Printed Patches. IEEE Sensors Journal, 2021, 21, 17868-17874.	2.4	14
12	Photonic bandgap influence on the SERS effect in metal-dielectric colloidal crystals optical fiber probe. Sensors and Actuators B: Chemical, 2021, 345, 130149.	4.0	17
13	Label-free detection of vitamin D by optical biosensing based on long period fiber grating. Sensors and Actuators B: Chemical, 2021, 347, 130637.	4.0	48
14	Two-Dimensional Deflection Maps by Using Fiber Bragg Grating Sensors. Lecture Notes in Civil Engineering, 2021, , 507-514.	0.3	0
15	Long period grating coated with graphene oxide as platform for optical fiber biosensors. , 2021, , .		0
16	Fiber optic biosensor based on long period grating for the detection of vitamin D. , 2021, , .		1
17	Sensitivity Enhancement in Long Period Gratings by Mode Transition in Uncoated Double Cladding Fibers. IEEE Sensors Journal, 2020, 20, 234-241.	2.4	37
18	Temperature Monitoring During Microwave Thermal Ablation of Ex Vivo Bovine Bone: a Pilot Test. , 2020, , .		2

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19	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
20	Evaluation of the Thermal Response of Liver Tissue Undergoing Microwave Treatment by Means of Fiber Bragg Grating Sensors. , 2020, , .		1
21	Fiber optic biosensor for inflammatory markers based on long period grating. , 2020, , .		2
22	Radiation Effects on Long Period Fiber Gratings: A Review. Sensors, 2020, 20, 2729.	2.1	35
23	Study of Fiber Bragg Gratings Embedded in 3D-Printed Patches for Deformation Monitoring. IEEE Sensors Journal, 2020, 20, 13379-13386.	2.4	17
24	Multipoint Temperature Monitoring of Microwave Thermal Ablation in Bones through Fiber Bragg Grating Sensor Arrays. Sensors, 2020, 20, 3200.	2.1	25
25	Long Period Fiber Grating Sensors Fabricated by Electric Arc Discharge Technique. Lecture Notes in Electrical Engineering, 2020, , 395-402.	0.3	1
26	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.	0.3	0
27	Optical Fiber Tip Functionalized by Colloidal Photonic Crystal and Gold Nano-Particles for SERS Sensing. , 2020, , .		0
28	Fiber Bragg gratings embedded in 3D-printed patches for sensitivity enhancement of deformation monitoring. , 2020, , .		0
29	Novel Long Period Gratings in Channeled Optical Fibers. , 2020, , .		0
30	Fabrication and characterization of arc-induced long period gratings in optical fibers with micro-channels. , 2020, , .		1
31	Fiber Bragg Grating Sensors for Real Time Monitoring of Early Age Curing and Shrinkage of Different Metakaolin-Based Inorganic Binders. IEEE Sensors Journal, 2019, 19, 6173-6180.	2.4	8
32	Sensing Features of Arc-induced Long Period Gratings. Proceedings (mdpi), 2019, 15, .	0.2	1
33	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.	2.7	26
34	Deflection Monitoring of Bi-Dimensional Structures by Fiber Bragg Gratings Strain Sensors. IEEE Sensors Journal, 2019, 19, 4084-4092.	2.4	15
35	Strain Monitoring of a Composite Drag Strut in Aircraft Landing Gear by Fiber Bragg Grating Sensors. Sensors, 2019, 19, 2239.	2.1	17
36	Fiber Optic Probe Based on Self-Assembled Photonic Crystal for Relative Humidity Sensing. Journal of Lightwave Technology, 2019, 37, 4610-4618.	2.7	20

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37	Arc-Induced Long Period Gratings in Erbium-Doped Fiber. IEEE Photonics Journal, 2019, 11, 1-8.	1.0	28
38	Multi-parameter Sensor Based on Long Period Grating in Polarization-maintaining Panda Fiber. , 2019, , .		0
39	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.	2.2	71
40	Fiber Bragg Gratings strain sensors for deflection estimation of a two-dimensional structure. , 2019, , .		3
41	Metallic-Dielectric colloidal photonic crystal on the multimode optical fiber tip: preliminary results as optical fiber SERS probe. , 2019, , .		1
42	Fabrication and characterization of long period gratings in pure-silica fibers. , 2019, , .		2
43	Deflection monitoring method for two-dimensional structure based on fiber Bragg grating sensors measurements. , 2019, , .		0
44	Mode transition in uncoated long period gratings. , 2019, , .		0
45	Response of long period gratings to gamma and neutron-gamma radiations. , 2019, , .		1
46	Optical fiber SERS probe achieved by colloidal photonic crystal and gold nano-particles. , 2019, , .		1
47	Graphene oxide-functionalized long period grating for biosensing applications. , 2019, , .		0
48	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.	2.0	25
49	Single-Ended Long Period Fiber Grating Coated With Polystyrene Thin Film for Butane Gas Sensing. Journal of Lightwave Technology, 2018, 36, 825-832.	2.7	40
50	Detection of thermal gradients through fiber-optic Chirped Fiber Bragg Grating (CFBG): Medical thermal ablation scenario. Optical Fiber Technology, 2018, 41, 48-55.	1.4	50
51	Arc-Induced Long Period Gratings from Standard to Polarization-Maintaining and Photonic Crystal Fibers. Sensors, 2018, 18, 918.	2.1	45
52	Temperature Monitoring during Radio Frequency Thermal Ablation Treatment on Ex Vivo perfused organ by Fiber Bragg Grating Sensors. , 2018, , .		2
53	Analysis and Design of Chirped Fiber Bragg Grating for Temperature Sensing for Possible Biomedical Applications. IEEE Photonics Journal, 2018, 10, 1-15.	1.0	35
54	Ultrasensitive biosensor based on long period grating coated with polycarbonate-graphene oxide multilayer. Sensors and Actuators B: Chemical, 2018, 274, 517-526.	4.0	73

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55	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.	1.3	27
56	Liquefied Petroleum Gas Monitoring System Based on Polystyrene Coated Long Period Grating. Sensors, 2018, 18, 1435.	2.1	14
57	Multidimensional thermal mapping during radiofrequency ablation treatments with minimally invasive fiber optic sensors. Biomedical Optics Express, 2018, 9, 5891.	1.5	14
58	Miniaturized fiber optic probe based on colloid crystals of hydrogel coated nanoparticles for relative humidity measurements. , 2018, , .		3
59	High Spatial Resolution Fiber Optic Sensors and Their Impact in Biomedical Measurements and Diagnostic. , 2018, , .		0
60	Long Period Grating in Panda fiber fabricated by Electric Arc Discharge technique as multi-parametric sensing device. , 2018, , .		0
61	Gamma radiation effects on Long Period Gratings and transmitted power in different optical fibers: towards dosimetry applications. , 2018, , .		3
62	Arc-Induced Long Period Gratings in Phosphorus-Doped Fiber. IEEE Photonics Technology Letters, 2017, 29, 611-614.	1.3	26
63	Real-time analysis of arc-induced Long Period Gratings under gamma irradiation. Scientific Reports, 2017, 7, 43389.	1.6	35
64	Fabrication of arc-induced long-period gratings in different silica fibers. Proceedings of SPIE, 2017, , .	0.8	2
65	Real-time temperature monitoring during radiofrequency treatments on ex-vivo animal model by fiber Bragg grating sensors. Proceedings of SPIE, 2017, , .	0.8	2
66	Self-Assembled Colloidal Photonic Crystal on the Fiber Optic Tip as a Sensing Probe. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	20
67	Sensing Characteristics of Arc-Induced Long Period Gratings in Polarization-Maintaining Panda Fiber. IEEE Sensors Journal, 2017, 17, 6953-6959.	2.4	27
68	Arc-Induced Long Period Gratings in Polarization-Maintaining Panda Fiber. IEEE Photonics Technology Letters, 2017, , 1-1.	1.3	13
69	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
70	Experimental Study of the Refractive Index Sensitivity in Arc-induced Long Period Gratings. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	43
71	Measurements of temperature during thermal ablation treatments on ex vivo liver tissue using fiber Bragg grating sensors. , 2017, , .		3
72	Arc-induced Long Period Gratings in standard and speciality optical fibers under mixed neutron-gamma irradiation. Scientific Reports, 2017, 7, 15845.	1.6	28

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73	Temperature profile of ex-vivo organs during radio frequency thermal ablation by fiber Bragg gratings. Journal of Biomedical Optics, 2016, 21, 117003.	1.4	37
74	Influence of Period on Surrounding Refractive Index Sensitivity of Arc-induced Long Period Gratings. Procedia Engineering, 2016, 168, 999-1002.	1.2	3
75	Fiber Bragg Grating for Temperature Monitoring During Medical Radiofrequency Treatments. Procedia Engineering, 2016, 168, 1308-1311.	1.2	7
76	Temperature monitoring during thermal ablation on ex-vivo organs by Fiber Bragg gratings. , 2016, , .		3
77	A simple Fabry-Perot pressure sensor fabricated on fiber optic tip. Proceedings of SPIE, 2016, , .	0.8	1
78	Long period gratings written in fluorine-doped fibers by electric arc discharge technique. , 2016, , .		3
79	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
80	Modified electric arc discharge technique for fabrication of long period gratings in air-core fibers: Effect of air pressure inside fiber holes. , 2015, , .		0
81	Fiber Bragg grating sensors as a tool to evaluate the influence of filler on shrinkage of geopolymer matrices. Proceedings of SPIE, 2015, , .	0.8	4
82	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
83	Fabrication and Characterization of Long-Period Gratings in Hollow Core Fibers by Electric Arc Discharge. IEEE Sensors Journal, 2015, 15, 3014-3020.	2.4	36
84	Sensing Features of Long Period Gratings in Hollow Core Fibers. Sensors, 2015, 15, 8009-8019.	2.1	21
85	Measurement of temperature and early age shrinkage of alkali activated metakaolin using fiber Bragg grating sensors. , 2014, , .		2
86	Deflection Monitoring Method Using Fiber Bragg Gratings Applied to Tracking Particle Detectors. IEEE Photonics Journal, 2014, 6, 1-10.	1.0	14
87	Sensing characteristics of long period gratings in hollow core fiber fabricated via electrode arc discharge. Proceedings of SPIE, 2014, , .	0.8	1
88	FBG sensors for deformation monitoring of a tracking particle detector: preliminary results. Proceedings of SPIE, 2014, , .	0.8	2
89	Fiber Bragg Grating strain sensors for tracking particle detector. , 2014, , .		2
90	Strain and bending monitoring of a particle detector using Fiber Bragg Grating sensors. , 2014, , .		0

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91	Characterization of Long Period Gratings in hollow core fiber fabricated via Electrode Arc Discharge. , 2014, , .		2
92	Sensing characteristics of Long Period Gratings in air-core photonic bandgap fibers. , 2014, , .		0
93	Temperature and strain characterization of long period gratings in air guiding fiber. , 2013, , .		2
94	Design and analysis of photonic quasi-crystal hollow core fibers. Proceedings of SPIE, 2013, , .	0.8	3
95	Long Period Gratings in New Generation Optical Fibers. , 2012, , .		5
96	Long-Period Gratings in Hollow Core Fibers by Pressure-Assisted Arc Discharge Technique. IEEE Photonics Technology Letters, 2011, 23, 1567-1569.	1.3	48
97	Long Period Grating in hollow core fibers: Fabrication and characterization. , 2011, , .		1
98	OUT-OF-PLANE PROPAGATION IN PHOTONIC QUASI-CRYSTALS: GUIDED RESONANCES. , 2011, , 75-111.		0
99	Self Assembling and Coordination of Water Nano-Layers On Polymer Coated Long Period Gratings: Toward New Perspectives for Cation Detection. Soft Materials, 2011, 9, 238-263.	0.8	7
100	Fiber Bragg Grating Evanescent Wave Sensors for Chemical and Biological Applications. , 2011, , 238-269.		3
101	Photonic Bandgap Engineering in FBGs by Post Processing Fabrication Technique. , 2011, , 53-77.		0
102	Broadband Mirrors in the Near-Infrared Based on Subwavelength Gratings in SOI. IEEE Photonics Journal, 2010, 2, 696-702.	1.0	40
103	Permanently bent single mode optical fiber as novel evanescent wave sensor. , 2010, , .		1
104	Tuning efficiency and sensitivity of guided resonances in photonic crystals and quasi-crystals: a comparative study. Optics Express, 2010, 18, 17280.	1.7	20
105	Experimental evidence of guided-resonances in photonic crystals with aperiodically ordered supercells. Optics Letters, 2010, 35, 3946.	1.7	17
106	Single and Multiple Phase Shifts Tilted Fiber Bragg Gratings. Research Letters in Optics, 2009, 2009, 1-4.	0.5	3
107	Development of a platform for biochemical sensing based on overlayered Long Period Gratings working in transition. , 2009, , .		0
108	Parametric study of guided resonances in octagonal photonic quasicrystals. Microwave and Optical Technology Letters, 2009, 51, 2737-2740.	0.9	3

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109	Not-lithographic fabrication of micro-structured fiber Bragg gratings evanescent wave sensors. Optics Express, 2009, 17, 1042.	1.7	22
110	Guided resonances in photonic crystals with point-defected aperiodically-ordered supercells. Optics Express, 2009, 17, 19586.	1.7	11
111	Fast and slow light in optical fibers through tilted fiber Bragg gratings. Optics Express, 2009, 17, 23502.	1.7	14
112	Time Delay Measurements as Promising Technique for Tilted Fiber Bragg Grating Sensors Interrogation. IEEE Photonics Technology Letters, 2009, 21, 1752-1754.	1.3	8
113	Underwater Acoustic Sensors Based on Fiber Bragg Gratings. Sensors, 2009, 9, 4446-4454.	2.1	60
114	Guided resonances in photonic quasicrystals. Optics Express, 2009, 17, 6335-46.	1.7	15
115	Structured Chirped Fiber Bragg Gratings. Journal of Lightwave Technology, 2008, 26, 1613-1625.	2.7	22
116	Photonic band-gap engineering in UV fiber gratings by the arc discharge technique. Optics Express, 2008, 16, 15332.	1.7	38
117	External Refractive Index Sensitivity of Weakly Tilted Fiber Bragg Gratings With Different Coating Thicknesses. IEEE Sensors Journal, 2008, 8, 1330-1336.	2.4	28
118	Hollow-core optical fiber functionalized with single walled carbon nanotubes for VOC detection. Proceedings of SPIE, 2007, , .	0.8	0
119	Spectral behavior in thinned long period gratings: effects of fiber diameter on refractive index sensitivity. Applied Optics, 2007, 46, 6945.	2.1	42
120	Chemical Detection in Water by Single-Walled Carbon Nanotubes-Based Optical Fiber Sensors. IEEE Sensors Journal, 2007, 7, 1004-1005.	2.4	21
121	Fiber Bragg Grating and Magnetic Shape Memory Alloy: Novel High-Sensitivity Magnetic Sensor. IEEE Sensors Journal, 2007, 7, 228-229.	2.4	13
122	Continuously Variable Optical Delay Line Based on a Chirped Fiber Bragg Grating. IEEE Photonics Technology Letters, 2006, 18, 2551-2553.	1.3	22
123	Novel Optochemical Sensors Based on Hollow Fibers and Single Walled Carbon Nanotubes. IEEE Photonics Technology Letters, 2006, 18, 2431-2433.	1.3	16
124	A Novel Optochemical Sensor Based on $hbox{SnO}_{2}$ Sensitive Thin Film for ppm Ammonia Detection in Liquid Environment. Journal of Lightwave Technology, 2006, 24, 5000-5007.	2.7	31
125	Electrically tunable true time delay line based on a chirped fiber Bragg grating. Proceedings of SPIE, 2006, , .	0.8	0
126	Carbon nanotubes thin films fiber optic and acoustic VOCs sensors: Performances analysis. Sensors and Actuators B: Chemical, 2006, 118, 232-242.	4.0	70

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127	The Odorant-Binding Protein from Canis familiaris: Purification, Characterization and New Perspectives in Biohazard Assessment. Protein and Peptide Letters, 2006, 13, 349-352.	0.4	14
128	Sensitivity characteristics in nanosized coated long period gratings. Applied Physics Letters, 2006, 89, 201116.	1.5	48
129	High sensitivity magnetic sensor by using fiber Bragg grating bonded to magnetic shape memory alloys. , 2005, , .		1
130	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
131	Cladding mode reorganization in high-refractive-index-coated long-period gratings: effects on the refractive-index sensitivity. Optics Letters, 2005, 30, 2536.	1.7	98
132	Ammonia detection in water with a tin dioxide based optical sensor. , 2005, , .		1
133	ARROW optical waveguides based sensors. Sensors and Actuators B: Chemical, 2004, 100, 143-146.	4.0	58
134	Microfluidic sensor based on integrated optical hollow waveguides. Optics Letters, 2004, 29, 1894.	1.7	97
135	Odor binding protein as probe for a refractive index-based biosensor: new perspectives in biohazard assessment. , 2004, 5321, 258.		3
136	Power semiconductor laser diode arrays characterization. Optics and Lasers in Engineering, 2003, 39, 203-217.	2.0	5
137	<title>ARROW waveguides-based refractometer for chemical and biochemical sensing application</title>. , 2002, 4578, 454.		3
138	Design and analysis of an integrated antiresonant reflecting optical waveguide refractive-index sensor. Applied Optics, 2002, 41, 70.	2.1	13