

Nã©lia Alberto

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

2,069
citations

304743

22
h-index

243625

44
g-index

98
all docs

98
docs citations

98
times ranked

1978
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Sensors Based on Plastic Fibers. <i>Sensors</i> , 2012, 12, 12184-12207.	3.8	349
2	Optical Fiber Accelerometer System for Structural Dynamic Monitoring. <i>IEEE Sensors Journal</i> , 2009, 9, 1347-1354.	4.7	126
3	Optical Fiber Magnetic Field Sensors Based on Magnetic Fluid: A Review. <i>Sensors</i> , 2018, 18, 4325.	3.8	115
4	Internal and External Temperature Monitoring of a Li-Ion Battery with Fiber Bragg Grating Sensors. <i>Sensors</i> , 2016, 16, 1394.	3.8	114
5	Insole Optical Fiber Sensor Architecture for Remote Gait Analysis – An e-Health Solution. <i>IEEE Internet of Things Journal</i> , 2019, 6, 207-214.	8.7	76
6	Analytical Analysis of Side-Polished Plastic Optical Fiber as Curvature and Refractive Index Sensor. <i>Journal of Lightwave Technology</i> , 2011, 29, 864-870.	4.6	70
7	Three-parameter optical fiber sensor based on a tilted fiber Bragg grating. <i>Applied Optics</i> , 2010, 49, 6085.	2.1	68
8	Optical Fiber Microcavity Strain Sensors Produced by the Catastrophic Fuse Effect. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 78-81.	2.5	66
9	Narrow bandwidth Bragg gratings imprinted in polymer optical fibers for different spectral windows. <i>Optics Communications</i> , 2013, 307, 57-61.	2.1	62
10	Low-Cost Interrogation Technique for Dynamic Measurements with FBG-Based Devices. <i>Sensors</i> , 2017, 17, 2414.	3.8	62
11	Cost-effective optical fiber pressure sensor based on intrinsic Fabry-Perot interferometric micro-cavities. <i>Optical Fiber Technology</i> , 2018, 42, 56-62.	2.7	58
12	Concentration sensor based on a tilted fiber Bragg grating for anions monitoring. <i>Optical Fiber Technology</i> , 2014, 20, 422-427.	2.7	56
13	Insole optical fiber Bragg grating sensors network for dynamic vertical force monitoring. <i>Journal of Biomedical Optics</i> , 2017, 22, 091507.	2.6	55
14	Relative humidity sensing using micro-cavities produced by the catastrophic fuse effect. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	51
15	Cortisol in-fiber ultrasensitive plasmonic immunosensing. <i>IEEE Sensors Journal</i> , 2020, , 1-1.	4.7	49
16	Gait Shear and Plantar Pressure Monitoring: A Non-Invasive OFS Based Solution for e-Health Architectures. <i>Sensors</i> , 2018, 18, 1334.	3.8	45
17	Theoretical Design of a High Sensitivity SPR-Based Optical Fiber Pressure Sensor. <i>Journal of Lightwave Technology</i> , 2015, 33, 4606-4611.	4.6	34
18	Respiratory and heart rate monitoring using an FBG 3D-printed wearable system. <i>Biomedical Optics Express</i> , 2022, 13, 2299.	2.9	32

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19	Feasibility studies of Bragg probe for noninvasive carotid pulse waveform assessment. <i>Journal of Biomedical Optics</i> , 2013, 18, 017006.	2.6	31
20	Liquid Hydrostatic Pressure Optical Sensor Based on Micro-Cavity Produced by the Catastrophic Fuse Effect. <i>IEEE Sensors Journal</i> , 2015, 15, 5654-5658.	4.7	31
21	Strain, temperature, moisture, and transverse force sensing using fused polymer optical fibers. <i>Optics Express</i> , 2018, 26, 12939.	3.4	26
22	Wheelchair Pressure Ulcer Prevention Using FBG Based Sensing Devices. <i>Sensors</i> , 2020, 20, 212.	3.8	26
23	Wearable Devices for Remote Physical Rehabilitation Using a Fabry-Perot Optical Fiber Sensor: Ankle Joint Kinematic. <i>IEEE Access</i> , 2020, 8, 109866-109875.	4.2	26
24	Optical sensors for bond-slip characterization and monitoring of RC structures. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 332-339.	4.1	23
25	In the trail of a new bio-sensor for measuring strain in bone: Osteoblastic biocompatibility. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4046-4052.	10.1	22
26	Cost effective refractive index sensor based on optical fiber micro cavities produced by the catastrophic fuse effect. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 77, 265-268.	5.0	22
27	Design and characterization of a curvature sensor using fused polymer optical fibers. <i>Optics Letters</i> , 2018, 43, 2539.	3.3	22
28	High Rate Dynamic Monitoring with Fabry-Perot Interferometric Sensors: An Alternative Interrogation Technique Targeting Biomedical Applications. <i>Sensors</i> , 2019, 19, 4744.	3.8	21
29	Energy-Aware Wearable E-Health Architecture Using Optical FBG Sensors for Knee Kinematic Monitoring. , 2018, , .		19
30	Pulp Temperature Rise Induced by Light-Emitting Diode Light-Curing Units Using an Ex Vivo Model. <i>Materials</i> , 2019, 12, 411.	2.9	19
31	Optical Sensors Based on Fiber Bragg Gratings for Structural Health Monitoring. <i>Lecture Notes in Electrical Engineering</i> , 2011, , 253-295.	0.4	18
32	Cuspal Displacement Induced by Bulk Fill Resin Composite Polymerization: Biomechanical Evaluation Using Fiber Bragg Grating Sensors. <i>International Journal of Biomaterials</i> , 2016, 2016, 1-9.	2.4	17
33	Polymerization Shrinkage Evaluation of Restorative Resin-Based Composites Using Fiber Bragg Grating Sensors. <i>Polymers</i> , 2019, 11, 859.	4.5	16
34	Dynamic mechanical analysis on fused polymer optical fibers: towards sensor applications. <i>Optics Letters</i> , 2018, 43, 1754.	3.3	15
35	A simple and low-cost cure monitoring system based on a side-polished plastic optical fibre. <i>Measurement Science and Technology</i> , 2010, 21, 117001.	2.6	14
36	Characterization of different water/powder ratios of dental gypsum using fiber Bragg grating sensors. <i>Dental Materials Journal</i> , 2011, 30, 700-706.	1.8	13

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37	IoTof: A Long-Reach Fully Passive Low-Rate Upstream PHY for IoT over Fiber. Electronics (Switzerland), 2019, 8, 359.	3.1	13
38	Optical Fiber Technology for eHealthcare. , 2013, , 180-200.		12
39	Enhanced sensitivity high temperature optical fiber FPI sensor created with the catastrophic fuse effect. Microwave and Optical Technology Letters, 2015, 57, 972-974.	1.4	11
40	Characterization of Graphene Oxide Coatings onto Optical Fibers for Sensing Applications. Materials Today: Proceedings, 2015, 2, 171-177.	1.8	11
41	Evaluation of Diamond Coatings on Optical Fibre Sensors for Biological Use. Journal of Nanoscience and Nanotechnology, 2011, 11, 5408-5412.	0.9	10
42	Non-Invasive Wearable Optical Sensors for Full Gait Analysis in E-Health Architecture. IEEE Wireless Communications, 2021, 28, 28-35.	9.0	10
43	Wearable eHealth System for Physical Rehabilitation: Ankle Plantar-Dorsi-Flexion Monitoring. , 2019, , .		9
44	Optimisation of tailored diamond coating conditions onto optical fibres through the Taguchi method. Diamond and Related Materials, 2014, 43, 60-65.	3.9	8
45	Optically Instrumented Insole for Gait Plantar and Shear Force Monitoring. IEEE Access, 2021, 9, 132480-132490.	4.2	8
46	FBGs Based System for Muscle Effort Monitoring in Wheelchair Users. IEEE Sensors Journal, 2022, 22, 12886-12893.	4.7	8
47	Inscription of narrow bandwidth Bragg gratings in polymer optical fibers. Journal of Optics (United Tj ETQq1 1 0.784314 rgBJ /Overlock	2.2	6
48	Simultaneous strain and refractive index sensor based on a TFBC. , 2010, , .		5
49	Nanodiamond coated Bragg gratings for sensing applications. , 2012, , .		5
50	Lithium batteries temperature and strain fiber monitoring. , 2015, , .		5
51	Incorporation of Fiber Bragg Sensors for Shape Memory Polyurethanes Characterization. Sensors, 2017, 17, 2600.	3.8	5
52	Optical Fiber Fabryâ€“Perot Interferometer Based Spirometer: Design and Performance Evaluation. Photonics, 2021, 8, 336.	2.0	5
53	Instrumented Office Chair With Low-Cost Plastic Optical Fiber Sensors for Posture Control and Work Conditions Optimization. IEEE Access, 2022, 10, 69063-69071.	4.2	5
54	Development of a FBG probe for non-invasive carotid pulse waveform assessment. Proceedings of SPIE, 2012, , .	0.8	4

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55	Thermal monitoring of the diamond deposition process using regenerated FBG. , 2013, , .		4
56	Fibre Bragg Gratings, towards a Better Thermal Stability at High Temperatures. Physics Procedia, 2015, 62, 71-78.	1.2	4
57	High temperatures (>1000°C) monitoring during the sintering process in microwave oven using RFBGs. Optical and Quantum Electronics, 2016, 48, 1.	3.3	4
58	3D Printed Spirometer for Pulmonary Health Assessment Based on Fiber Bragg Gratings. IEEE Sensors Journal, 2021, 21, 4590-4598.	4.7	4
59	Diamond-coated fiber Bragg grating through the hot filament chemical vapor process for chemical durability improvement. Applied Optics, 2017, 56, 1603.	2.1	4
60	Non-Invasive Insole Optical Fiber Sensor Architecture for Monitoring Foot Anomalies. , 2017, , .		3
61	Fiber Bragg Gratings as e-Health Enablers: An Overview for Gait Analysis Applications. , 2019, , .		3
62	Optical fibre fuse effect based sensor for magnetic field monitoring. , 2019, , .		3
63	eHealth Solution for Cancer Patients Rehabilitation enabled by Optical Fiber Sensors. , 2020, , .		3
64	Sensor Cell Network for Pressure, Temperature and Position Detection on Wheelchair Users. International Journal of Environmental Research and Public Health, 2022, 19, 2195.	2.6	3
65	Side-polished plastic optical fibre as refractive index, cure and viscosity sensor. , 2011, , .		2
66	Simultaneous temperature and refractive index sensor based on a tilted fibre Bragg grating. Proceedings of SPIE, 2011, , .	0.8	2
67	Theoretical modeling of an U-shaped SPR fiber sensor in 1550-nm spectral range for sensing applications. Proceedings of SPIE, 2014, , .	0.8	2
68	Regeneration of FBGs during the HFCVD diamond-fiber coating process. , 2014, , .		2
69	Simultaneous regeneration of seed FBGs during the HFCVD diamond-grating coating process and its thermal monitoring. Proceedings of SPIE, 2015, , .	0.8	2
70	Recycling optical fibers for sensing. , 2016, , .		2
71	Fiber Bragg Based Sensors for Foot Plantar Pressure Analysis. Communications in Computer and Information Science, 2019, , 3-25.	0.5	2
72	Biaxial optical fiber sensor based in two multiplexed Bragg gratings for simultaneous shear stress and vertical pressure monitoring. , 2018, , .		2

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73	Three parameters simultaneous measurement with a single TFBG. Proceedings of SPIE, 2011, , .	0.8	1
74	Hydrostatic pressure sensor based on micro-cavities developed by the catastrophic fuse effect. , 2015, , .		1
75	Acoustic waves in tilted fiber Bragg gratings for sensing applications. , 2017, , .		1
76	Refractive index sensor based on tilted fiber Bragg gratings driven by acoustic waves. , 2017, , .		1
77	Employment of optical fibers for RC bond-slip characterization. Procedia Structural Integrity, 2018, 11, 138-144.	0.8	1
78	Optical Fiber Technology for eHealthcare. , 2018, , 1503-1526.		1
79	Low-cost intrinsic optical fiber FPI sensor for knee kinematic gait analysis and e-Health architecture. , 2019, , .		1
80	Bioinspired optical fiber sensor for simultaneous shear and vertical forces monitoring. , 2019, , .		1
81	Photonic sensors for non-invasive home monitoring of elders. , 2021, , .		1
82	Multichannel dispersion compensation using a simplified approach SFBG design. , 2011, , .		0
83	Madeira wine online quality control. , 2013, , .		0
84	Optical fibre monitoring of Madeira wine estufagem process. , 2013, , .		0
85	Plastic optical fibre sensor for quality control in food industry. , 2013, , .		0
86	Thermal monitoring of the thermoplastic injection molding process with FBGs. Proceedings of SPIE, 2014, , .	0.8	0
87	Sensors based on recycled optical fibers destroyed by the catastrophic fuse effect. Proceedings of SPIE, 2014, , .	0.8	0
88	Optical strain sensor based on FPI micro-cavities produced by the fiber fuse effect. Proceedings of SPIE, 2014, , .	0.8	0
89	Plastic optical fibre sensor for Madeira wine monitoring. Proceedings of SPIE, 2014, , .	0.8	0
90	Special Issue "Optical Fiber Interferometric Sensors: New Production Methodologies and Novel Applications". Photonics, 2021, 8, 389.	2.0	0

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91	Refractive Index Sensor Based on Optical Fiber Void Cavities Produced by the Catastrophic Fuse Effect. , 2013, , .		0
92	Multiparameter Optical Monitoring of Madeira Wine. International Journal of Online and Biomedical Engineering, 2013, 9, 62.	1.4	0
93	Cost-effective in-line optical fiber Fabry-Perot interferometric pressure sensor. , 2017, , .		0
94	Cost-effective high rate interrogation architecture for Fabry-Perot interferometric sensors. , 2019, , .		0
95	Graphene oxide filled optical fiber micro-cavity based temperature sensor. , 2019, , .		0
96	Optical fiber FPI based sensor for arterial pulse waves assessment. , 2021, , .		0
97	Pulmonary Health Assessment using Fiber Bragg Gratings in a 3D Printed Spirometer. , 2021, , .		0