

Susana O Silva

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,860
citations

279798

23
h-index

265206

42
g-index

90
all docs

90
docs citations

90
times ranked

1978
citing authors

#	ARTICLE	IF	CITATIONS
1	Light requirements in microalgal photobioreactors: an overview of biophotonic aspects. Applied Microbiology and Biotechnology, 2011, 89, 1275-1288.	3.6	386
2	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. Applied Optics, 2012, 51, 3236.	1.8	116
3	A Review of Palladium-Based Fiber-Optic Sensors for Molecular Hydrogen Detection. IEEE Sensors Journal, 2012, 12, 93-102.	4.7	114
4	Simultaneous measurement of multiparameters using a Sagnac interferometer with polarization maintaining side-hole fiber. Applied Optics, 2008, 47, 4841.	2.1	87
5	Advanced fiber-optic acoustic sensors. Photonic Sensors, 2014, 4, 198-208.	5.0	76
6	All Fiber Mach-Zehnder Interferometer Based on Suspended Twin-Core Fiber. IEEE Photonics Technology Letters, 2010, 22, 1300-1302.	2.5	74
7	Multimode interference tapered fiber refractive index sensors. Applied Optics, 2012, 51, 5941.	1.8	70
8	A reflective optical fiber refractometer based on multimode interference. Sensors and Actuators B: Chemical, 2012, 161, 88-92.	7.8	63
9	H_{2} Sensing Based on a Pd-Coated Tapered-FBG Fabricated by DUV Femtosecond Laser Technique. IEEE Photonics Technology Letters, 2013, 25, 401-403.	2.5	60
10	Temperature and strain-independent curvature sensor based on a singlemode/multimode fiber optic structure. Measurement Science and Technology, 2011, 22, 085201.	2.6	59
11	Strain-Temperature Discrimination Using Multimode Interference in Tapered Fiber. IEEE Photonics Technology Letters, 2013, 25, 155-158.	2.5	53
12	Optical fiber refractometry based on multimode interference. Applied Optics, 2011, 50, E184.	2.1	45
13	Optical fiber refractometer based on a Fabry-Pérot interferometer. Optical Engineering, 2008, 47, 054403.	1.0	43
14	Microcystin-LR detection in water by the Fabry-Pérot interferometer using an optical fibre coated with a sol-gel imprinted sensing membrane. Biosensors and Bioelectronics, 2011, 26, 3932-3937.	10.1	39
15	Optical refractometer based on large-core air-clad photonic crystal fibers. Optics Letters, 2011, 36, 852.	3.3	36
16	Curvature and Temperature Discrimination Using Multimode Interference Fiber Optic Structures: A Proof of Concept. Journal of Lightwave Technology, 2012, 30, 3569-3575.	4.6	36
17	Fiber Fabry-Perot interferometer for curvature sensing. Photonic Sensors, 2016, 6, 339-344.	5.0	36
18	Fiber Optic-Based Refractive Index Sensing at INESC Porto. Sensors, 2012, 12, 8371-8389.	3.8	29

#	ARTICLE	IF	CITATIONS
19	Refractive Index Measurement of Liquids Based on Microstructured Optical Fibers. <i>Photonics</i> , 2014, 1, 516-529.	2.0	29
20	Hollow Microsphere Fabry-Perot Cavity for Sensing Applications. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 1229-1232.	2.5	27
21	Fiber Bragg Grating Structures with Fused Tapers. <i>Fiber and Integrated Optics</i> , 2011, 30, 9-28.	2.5	26
22	Next generation of Fabry-Perot sensors for high-temperature. <i>Optical Fiber Technology</i> , 2013, 19, 833-837.	2.7	24
23	A hybrid Fabry-Perot/Michelson interferometer sensor using a dual asymmetric core microstructured fiber. <i>Measurement Science and Technology</i> , 2010, 21, 025205.	2.6	23
24	[INVITED] New advances in fiber cavity ring-down technology. <i>Optics and Laser Technology</i> , 2016, 78, 115-119.	4.6	23
25	Fiber cavity ring-down using an optical time-domain reflectometer. <i>Photonic Sensors</i> , 2014, 4, 295-299.	5.0	18
26	Multimode interference-based fiber sensor in a cavity ring-down system for refractive index measurement. <i>Optics and Laser Technology</i> , 2017, 91, 112-115.	4.6	17
27	Acoustic Optical Fiber Sensor Based on Graphene Oxide Membrane. <i>Sensors</i> , 2021, 21, 2336.	3.8	17
28	Fibre Bragg grating sensors for monitoring the metal inert gas and friction stir welding processes. <i>Measurement Science and Technology</i> , 2010, 21, 085105.	2.6	16
29	An all-fiber Fabry-Perot interferometer for pressure sensing in different gaseous environments. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 47, 418-421.	5.0	16
30	Optical Inclinator Based on a Phase-Shifted Bragg Grating in a Taper Configuration. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 405-407.	2.5	15
31	Ammonia sensing system based on wavelength modulation spectroscopy. <i>Photonic Sensors</i> , 2015, 5, 109-115.	5.0	13
32	Curvature detection in a medical needle using a Fabry-Perot cavity as an intensity sensor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 151, 107160.	5.0	13
33	Discrimination of Temperature, Strain, and Transverse Load by Using Fiber Bragg Gratings in a Twisted Configuration. <i>IEEE Sensors Journal</i> , 2006, 6, 1609-1613.	4.7	11
34	Simultaneous measurement of three parameters using an all-fiber Mach-Zehnder interferometer based on suspended twin-core fibers. <i>Optical Engineering</i> , 2011, 50, 030501.	1.0	10
35	Gas refractometry based on an all-fiber spatial optical filter. <i>Optics Letters</i> , 2012, 37, 3450.	3.3	10
36	Simultaneous measurement of strain and temperature based on clover microstructured fiber loop mirror. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 65, 50-53.	5.0	10

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37	Fiber-Optic Cavity Ring Down Using an Added-Signal for Curvature Sensing. IEEE Photonics Technology Letters, 2015, 27, 2079-2082.	2.5	10
38	Fiber cavity ring down and gain amplification effect. Photonic Sensors, 2016, 6, 324-327.	5.0	10
39	Detection of the Crystallization Process of Paracetamol with a Multi-Mode Optical Fiber in a Reflective Configuration. Sensors, 2020, 20, 87.	3.8	8
40	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. Applied Optics, 2012, 51, 2542.	2.1	8
41	Strain sensitivity enhancement in suspended core fiber tapers. Photonic Sensors, 2013, 3, 118-123.	5.0	7
42	High sensitivity strain sensor based on twin hollow microspheres. Microwave and Optical Technology Letters, 2019, 61, 454-458.	1.4	7
43	Multimode interference in tapered single mode-multimode-single mode fiber structures for strain sensing applications. , 2012, , .		6
44	Chirped fiber bragg grating cavity ring-down for strain sensing using an OTDR. Microwave and Optical Technology Letters, 2015, 57, 1442-1444.	1.4	6
45	Optical Fiber Sensors for Structural Monitoring in Power Transformers. Sensors, 2021, 21, 6127.	3.8	5
46	Measurement of acetic acid using a fibre Bragg grating interferometer. Measurement Science and Technology, 2009, 20, 125201.	2.6	4
47	Cavity ring-down technique for remote sensing. Microwave and Optical Technology Letters, 2016, 58, 2711-2713.	1.4	4
48	Fiber ring resonator using a cavity ring-down interrogation technique for curvature sensing. Microwave and Optical Technology Letters, 2016, 58, 267-270.	1.4	4
49	Ring-Down Technique Using Fiber-Based Linear Cavity for Remote Sensing. , 2018, 2, 1-4.		4
50	Discrimination of Benign and Malignant Lesions in Canine Mammary Tissue Samples Using Raman Spectroscopy: A Pilot Study. Animals, 2020, 10, 1652.	2.3	4
51	Tuning of Fiber Optic Surface Reflectivity through Graphene Oxide-Based Layer-by-Layer Film Coatings. Photonics, 2020, 7, 11.	2.0	4
52	Optical cavity fibre sensor for detection of microcystin-LR in water. , 2010, , .		3
53	Simultaneous measurement of strain and temperature based on clover microstructured fiber loop mirror. Proceedings of SPIE, 2012, , .	0.8	3
54	Curvature Sensor Based on a Long-Period Grating in a Fiber Ring Resonator Interrogated by an OTDR. Photonic Sensors, 2020, 10, 1-6.	5.0	3

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55	Detection of evaporation process of acetone with a microstructured fiber in a reflective configuration. <i>Optical Engineering</i> , 2014, 53, 080501.	1.0	2
56	A new cavity ring-down topology for remote sensing. , 2014, , .		2
57	A Self-Referencing Intensity-Based Fabry-Perot Cavity for Curvature Measurement. , 2019, 3, 1-4.		2
58	Sputtering Deposition of TiO ₂ Thin Film Coatings for Fiber Optic Sensors. <i>Photonics</i> , 2022, 9, 342.	2.0	2
59	Fibre Bragg grating structure in a braid twisted configuration for sensing applications. <i>Journal of Optics</i> , 2008, 10, 055308.	1.5	1
60	Fibre refractometer based on a Fabry-Perot interferometer. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
61	Interferometric fibre-optic sensor for acetic acid measurement. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
62	All fibre Mach-Zehnder interferometer based on suspended twin-core fibre for simultaneous measurement of three parameters. , 2010, , .		1
63	Temperature- and strain-independent curvature sensor based on multimode interference. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
64	Cavity ring-down with OTDR for remote sensing. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
65	Fiber optic sensing system for temperature and gas monitoring in coal waste pile combustion environments. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
66	Cavity ring-down technique for remote sensing: a proof-of-concept for displacement measurement. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
67	Refractive index sensing using a multimode interference-based fiber sensor in a cavity ring-down system. , 2017, , .		1
68	Analysis of amplification in a fiber ring resonator with a fabry-perot cavity. <i>Microwave and Optical Technology Letters</i> , 2018, 60, 2231-2236.	1.4	1
69	Graphene oxide as a tunable platform for microsphere-based optical fiber sensors. , 2019, , .		1
70	Brief Review on Optical Fiber Sensing for the Power Grid. <i>U Porto Journal of Engineering</i> , 2022, 8, 18-23.	0.4	1
71	Interrogation of a fibre Fabry-Perot interferometer using a λ -shifted Bragg grating. <i>Measurement Science and Technology</i> , 2008, 19, 085302.	2.6	0
72	Multimodal interference based on large-core air-clad photonic crystal fibres for simultaneous measurement of multiparameters. , 2011, , .		0

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73	A simple interrogation technique for refractive index measurement using multimode interference structure. Proceedings of SPIE, 2011, , .	0.8	0
74	Optical fibre hydrogen sensors based on palladium coatings. Proceedings of SPIE, 2011, , .	0.8	0
75	Strain characterization of suspended-core fiber tapers. , 2012, , .		0
76	Interferometer based on a D-shape chaotic optical fiber for measurement of multiparameters. Photonic Sensors, 2012, 2, 381-384.	5.0	0
77	Multimode interference as a tool for fiber sensing. , 2012, , .		0
78	Pressure sensor based on an all-fiber Fabry-Pérot interferometer for different gaseous environments. , 2013, , .		0
79	Multiparameter measurement using a double-Y-shaped suspended-core fiber in a fiber loop configuration. , 2014, , .		0
80	Fiber cavity ring-down for strain sensing using an OTDR. , 2014, , .		0
81	Curvature sensing using an added-signal in a fiber optic cavity ring-down system. Proceedings of SPIE, 2015, , .	0.8	0
82	Analysis of signal saturation in a fiber ring resonator integrating an intensity sensor. , 2017, , .		0
83	Embedded Fabry-Perot based sensor using three-dimensional printing technology. , 2017, , .		0
84	Characterization of an Hollow Core PCF for Endoscopy Applications: A Proof Concept. , 2021, , .		0
85	Thermally Stimulated Desorption Optical Fiber-Based Interrogation System: An Analysis of Graphene Oxide Layers's™ Stability. Photonics, 2021, 8, 70.	2.0	0
86	New spatial optical filters for gas refractometry. , 2012, , .		0
87	Recent Advances in Fiber Cavity Ring-down Technology. , 2017, , .		0
88	Strain sensor based on hollow microsphere Fabry-Perot cavity. , 2017, , .		0
89	Fabry-Perot cavity for curvature measurement in a medical needle. , 2019, , .		0
90	Environmental Sensitivity of Fabry-Perot Microcavities Induced by Layered Graphene-Dielectric Hybrid Coatings. Physical Review Applied, 2021, 16, .	3.8	0