

Jean Carlos Cardozo da Silva

List of Publications by Year in descending order

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124
papers

966
citations

430442

18
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552369

26
g-index

125
all docs

125
docs citations

125
times ranked

802
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction Motors Vibration Monitoring Using a Biaxial Optical Fiber Accelerometer. IEEE Sensors Journal, 2016, 16, 8075-8082.	2.4	60
2	In Vivo Pattern Classification of Ingestive Behavior in Ruminants Using FBG Sensors and Machine Learning. Sensors, 2015, 15, 28456-28471.	2.1	43
3	Dynamic Eccentricity Induced in Induction Motor Detected by Optical Fiber Bragg Grating Strain Sensors. IEEE Sensors Journal, 2016, 16, 4786-4792.	2.4	43
4	Improving Spatial Resolution of Raman DTS Using Total Variation Deconvolution. IEEE Sensors Journal, 2016, 16, 4425-4430.	2.4	42
5	Broken Bar Fault Detection in Induction Motor by Using Optical Fiber Strain Sensors. IEEE Sensors Journal, 2017, 17, 3669-3676.	2.4	35
6	Radial-basis function network for the approximation of FBG sensor spectra with distorted peaks. Measurement Science and Technology, 2006, 17, 1039-1045.	1.4	33
7	Application of Bragg Grating Sensors in Dental Biomechanics. Journal of Strain Analysis for Engineering Design, 2006, 41, 411-416.	1.0	31
8	NARX neural network model for strong resolution improvement in a distributed temperature sensor. Applied Optics, 2018, 57, 5859.	0.9	29
9	Determination of Temperature Dynamics and Mechanical and Stator Losses Relationships in a Three-Phase Induction Motor Using Fiber Bragg Grating Sensors. IEEE Sensors Journal, 2012, 12, 3054-3061.	2.4	27
10	Thermal characteristics analysis of an IGBT using a fiber Bragg grating. Optics and Lasers in Engineering, 2012, 50, 99-103.	2.0	27
11	Dynamic analysis and temperature measurements of concrete cantilever beam using fibre Bragg gratings. Optics and Lasers in Engineering, 2007, 45, 88-92.	2.0	26
12	Determination of setting expansion of dental materials using fibre optical sensing. Measurement Science and Technology, 2006, 17, 1152-1156.	1.4	25
13	Thermal Imaging of Hydroelectric Generator Stator Using a DTS System. IEEE Sensors Journal, 2015, 15, 6689-6696.	2.4	25
14	Validation of thermal and electrical model for induction motors using fiber Bragg gratings. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1781-1790.	2.5	23
15	Embedded FBG Sensors in Carbon Fiber for Vibration and Temperature Measurement in Power Transformer Iron Core. IEEE Sensors Journal, 2020, 20, 13403-13410.	2.4	23
16	Smart Carbon Fiber Transtibial Prosthesis Based on Embedded Fiber Bragg Gratings. IEEE Sensors Journal, 2018, 18, 1520-1527.	2.4	21
17	Measurement of composite shrinkage using a fibre optic Bragg grating sensor. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 383-392.	1.9	20
18	Force Monitoring in a Maxilla Model and Dentition Using Optical Fiber Bragg Gratings. Sensors, 2012, 12, 11957-11965.	2.1	20

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19	Optical Fiber Bragg Grating Strain Sensor for Bone Stress Analysis in Bovine During Masticatory Movements. IEEE Sensors Journal, 2017, 17, 2385-2392.	2.4	20
20	Strain Mapping in Carbon-Fiber Prosthesis Using Optical Fiber Sensors. IEEE Sensors Journal, 2017, 17, 3-4.	2.4	16
21	Evaluation electromagnetic contactor magnetic core temperature and dynamic strain using fiber Bragg gratings. Measurement: Journal of the International Measurement Confederation, 2020, 166, 108174.	2.5	16
22	Electric discharge detection and localization using a distributed optical fiber vibration sensor. Optical Fiber Technology, 2020, 58, 102266.	1.4	16
23	Optical Fiber Sensor Encapsulated in Carbon Fiber Reinforced Polymer for Fault Detection in Rotating Electrical Machines. IEEE Sensors Journal, 2020, 20, 11364-11371.	2.4	15
24	Fibre Bragg grating sensing and finite element analysis of the biomechanics of the mandible. , 2005, , .		14
25	Comparison of the temperature dependence of different types of Bragg gratings. Microwave and Optical Technology Letters, 2005, 45, 305-307.	0.9	14
26	Quasi-Distributed Optical Fiber Transducer for Simultaneous Temperature and Vibration Sensing in High-Power Generators. IEEE Sensors Journal, 2018, 18, 1547-1554.	2.4	14
27	Hybrid Wavelength-Time-Domain Interrogation System for Multiplexed Fiber Bragg Sensors Using a Strain-Tuned Erbium-Doped Fiber Laser. IEEE Sensors Journal, 2008, 8, 1061-1066.	2.4	13
28	A technique to package Fiber Bragg Grating Sensors for Strain and Temperature Measurements. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2013, 12, 638-646.	0.4	13
29	Highly reliable strain-tuning of an Erbium-doped fiber laser for the interrogation of multiplexed Bragg grating sensors. Optics Communications, 2007, 273, 187-192.	1.0	12
30	Biaxial Optical Accelerometer Based on Ultra-High Numerical Aperture Fiber. IEEE Sensors Journal, 2019, 19, 3690-3697.	2.4	12
31	FBG applied in dynamic analysis of an implanted cadaveric mandible. , 2004, , .		11
32	Optical fiber thermo-refractometer. Optics Express, 2022, 30, 11036.	1.7	11
33	Temperature sensing in a 175MW power generator. Proceedings of SPIE, 2012, , .	0.8	9
34	Optical Fiber Bragg Grating Instrumentation Applied to Horse Gait Detection. IEEE Sensors Journal, 2018, 18, 5778-5785.	2.4	9
35	FBG application in the determination of setting expansion of dental materials. , 2005, , .		8
36	Fiber Bragg Grating Temperature Sensors in a 6.5-MW Generator Exciter Bridge and the Development and Simulation of its Thermal Model. Sensors, 2014, 14, 16651-16663.	2.1	8

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37	Optical Fiber Transducer for Monitoring Single-Phase and Two-Phase Flows in Pipes. IEEE Sensors Journal, 2020, 20, 5943-5952.	2.4	8
38	Detection of Multiple Small Temperature Events Simultaneously on a Distributed Temperature Map. IEEE Sensors Journal, 2021, 21, 4582-4589.	2.4	8
39	Monitoring the junction temperature of an IGBT through direct measurement using a fiber Bragg grating. Proceedings of SPIE, 2011, , .	0.8	7
40	A simple equation to describe cross-sensitivity between temperature and refractive index in fiber Bragg gratings refractometers. IEEE Sensors Journal, 2017, , 1-1.	2.4	7
41	Faults Diagnosis in Induction Motors Through Thermal Mapping Produced by the RDTs System. IEEE Sensors Journal, 2021, 21, 20061-20068.	2.4	7
42	Smart Carbon-Fiber Reinforced Polymer Optical Fiber Bragg Grating for Monitoring Fault Detection in Bearing. IEEE Sensors Journal, 2022, 22, 12921-12929.	2.4	7
43	Development of Bragg grating sensors at CEFET-PR. Optics and Lasers in Engineering, 2003, 39, 511-523.	2.0	6
44	Fiber Bragg grating sensing applications in temperature monitoring of three-phase induction motors. , 2011, , .		6
45	Optical System Based on Multiplexed FBGs to Monitor Hand Movements. IEEE Sensors Journal, 2021, 21, 14081-14089.	2.4	6
46	Stress monitoring in a maxilla model and dentition. , 2011, , .		5
47	Influence of temperature on the refractive index sensitivities of fiber Bragg gratings refractometers. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2017, 16, 385-392.	0.4	5
48	Noninvasive Optical Instrumentation for Bone Healing Process Analysis. IEEE Sensors Journal, 2021, 21, 14060-14068.	2.4	5
49	Raman distributed temperature sensing for end winding of high-power generator. IET Optoelectronics, 2020, 14, 343-349.	1.8	5
50	Load Balance for Multi-Layer Reuse Scenarios on Mobile WiMAX System. , 2010, , .		4
51	Optical fiber Bragg grating sensors applied on energy conversion systems. , 2013, , .		4
52	Vibration measurement of Induction Motor under dynamic eccentricity using optical fiber Bragg grating sensors. , 2015, , .		4
53	Analysis of vibrations in electrical machines with an optical fiber accelerometer. , 2015, , .		4
54	Thermal Monitoring of Photovoltaic module using Optical Fiber Sensors. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2016, 15, 333-348.	0.4	4

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55	Distributed optical fiber microphone. , 2017, , .		4
56	Cable Fault Characterization by Time-Domain Analysis From S-Parameter Measurement and Sparse Inverse Chirp-Z Transform. IEEE Sensors Journal, 2021, 21, 1009-1016.	2.4	4
57	Influence of process bus on performance of power system protection. Electric Power Systems Research, 2021, 200, 107491.	2.1	4
58	Fiber bragg grating temperature sensors used to measure flow in a pipeline. , 2007, , .		3
59	Static and dynamic measurements in small induction motors using a fiber Bragg grating interrogation unit. , 2009, , .		3
60	A power electronics and digital control experiment applied to teaching interdisciplinary in electrical engineering. , 2011, , .		3
61	Determination of chewing patterns in goats using fiber Bragg gratings. Proceedings of SPIE, 2012, , .	0.8	3
62	Optical-electrical probe for two-phase flow investigation. , 2017, , .		3
63	Electrical and Optical Probe for Two-Phase Flow Monitoring. IEEE Sensors Journal, 2019, 19, 8706-8713.	2.4	3
64	Sensing Hydrates in Pipes by a Combined Electrical and Optical Fiber Sensor. IEEE Sensors Journal, 2020, 20, 5012-5018.	2.4	3
65	Fiber-Optic Bragg Grating Sensors for Biomechanical Analysis of Fracture Healing. IEEE Sensors Journal, 2021, 21, 24177-24184.	2.4	3
66	Dynamic Strain Analysis of Transformer Iron Core with Fiber Bragg Gratings. , 2018, , .		3
67	Sparse Inverse Chirp-Z Transform of S-Parameter Measurements for Time Domain Analysis of Transmission Line. , 2017, , .		3
68	Classification dynamic strain patterns in switching devices measured with Fiber Bragg Grating. , 2021, , .		3
69	Temperature effects in concrete structures measured with fibre Bragg grating. , 2004, , .		2
70	Performance evaluation of an IGBT module by thermal analysis using fiber Bragg grating. Proceedings of SPIE, 2010, , .	0.8	2
71	Thermal behavior of a high power generator exciter bridge measured by optical fiber sensors. Proceedings of SPIE, 2013, , .	0.8	2
72	Thermal and vibration dynamic analysis of an induction motor using optical fiber Bragg gratings. Proceedings of SPIE, 2015, , .	0.8	2

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73	Super-resolution algorithm applied in thermal imaging of hydroelectric generators stator using hybrid sensing with DTS and FBG. , 2015, , .		2
74	Sparse Reconstruction for Temperature Distribution Using DTS Fiber Optic Sensors with Applications in Electrical Generator Stator Monitoring. Sensors, 2016, 16, 1425.	2.1	2
75	Photonic sensors: from horse racing to horse power. , 2017, , .		2
76	Thermal Mapping of a Radiator in a Hydroelectric Generator using Fiber Bragg Gratings. , 2014, , .		2
77	Thermal Imaging System for Hydroelectric Generator Stator Based on Distributed Optical Sensors. , 2015, , .		2
78	Fault Analysis in Electromechanical Relays's Switching Using Fiber Bragg Grating. , 2021, , .		2
79	Strain studies in electrical energy transmission cables using an optical fiber Bragg grating sensor. , 0, , .		1
80	Production and characterization of broad fibre Bragg gratings for photonic devices. , 2005, , .		1
81	Um experimento simples usado na produÃ§Ã£o de placas de zonas de Fresnel. Revista Brasileira De Ensino De Fisica, 2005, 27, 603-608.	0.2	1
82	Hybrid wavelength-time domain interrogation system for multiplexed fiber Bragg sensors using a strain-tuned erbium-doped fiber laser. , 2007, , .		1
83	Validation of an induction motor thermal model by using fiber Bragg grating temperature sensors. , 2012, , .		1
84	Optical fiber instrumentation of a high power generator and turbine. Proceedings of SPIE, 2013, , .	0.8	1
85	Ex vivodetermination of chewing patterns using FBG and artificial neural networks. , 2014, , .		1
86	In-vivo determination of chewing patterns using FBG and artificial neural networks. Proceedings of SPIE, 2015, , .	0.8	1
87	Gas Detection Using LMR-Based Optical Fiber Sensors. Proceedings (mdpi), 2018, 2, 890.	0.2	1
88	Horse Gait Identification Using Distributed Acoustic Sensing. IEEE Sensors Journal, 2021, 21, 3058-3065.	2.4	1
89	Smart Carbon Fiber Foot Prosthesis. , 2018, , .		1
90	WIRED HORSES. , 2018, , .		1

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91	Total Variation Deconvolution of Raman Distributed Temperature Sensing Signals. , 2019, , .		1
92	Recognition of Fingers movement Using Fiber Bragg Gratings in Silicon Elastomer Packing. , 2019, , .		1
93	<title>Development of Bragg grating sensors at CEFET-PR and University of Aveiro</title>. , 2001, , .		0
94	Abnormal growth mechanism of fiber Bragg gratings in high-Germanium-doped fibers. , 2005, , .		0
95	Internal temperature measurements of a concrete cantilever beam using high temperature stable fibre Bragg gratings. , 2006, , .		0
96	Interrogation of multiplexed FBG sensors with a strain tuned EDF laser using a high-strength grating. , 2007, , .		0
97	Characterization of an EDF fiber laser strain-tuned by two high- strength fiber bragg gratings. , 2007, , .		0
98	Photonic Sensors as Imaging Tools for Industrial Monitoring. , 2014, , .		0
99	Determination of Terfenol-D magnetostriction characteristics for sensor application using fiber Bragg grating. Proceedings of SPIE, 2014, , .	0.8	0
100	Photonic sensors: from crude oil to engine monitoring. , 2014, , .		0
101	In vivo analysis of bone strain using fiber Bragg grating sensor and decision tree algorithm in bovine during masticatory movements. , 2015, , .		0
102	200 MW hydroelectric generator stator surface temperature monitoring using a DTS system. Proceedings of SPIE, 2015, , .	0.8	0
103	Quasi-distributed fiber Bragg grating temperature sensors for stator bars monitoring of large electric generators. , 2016, , .		0
104	Vibration analysis of a cantilever beam with viscoelastic neutralizers using fiber Bragg gratings. , 2017, , .		0
105	Dual sensor for simultaneous measurement of electrical impedance and temperature during ice formation process. , 2017, , .		0
106	Biaxial Optical Accelerometer Based on Ultra-High Numerical Aperture Fiber for Structural and Electrical Machines Vibrations Analysis. , 2018, , .		0
107	Evaluation of Balance in Elderly Practicing Physical Activity and Sedentary Elderly by the Electronic Baropodometer. IFMBE Proceedings, 2019, , 811-813.	0.2	0
108	Um experimento simples usado na produÃ§Ã£o de placas de zonas de Fresnel. Revista Brasileira De Ensino De Fisica, 2005, 27, .	0.0	0

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109	Temperature Sensing of High Power Generator Stator using DTS. , 2014, , .		0
110	Quasi-Distributed Temperature Measurement for Hydroelectric Generators Bearings via use of Fiber Bragg Gratings. , 2014, , .		0
111	Optical fiber sensors: the last step towards mainstream. , 2015, , .		0
112	PDI para o Monitoramento de Rodovias com Imagens AÃ©reas Obtidas por VANT. , 2017, , .		0
113	Optical quasi-distributed simultaneous vibration and temperature sensing in stator bars of a 370-MVA electric generator. , 2017, , .		0
114	Considerations for the Development of LMR-based Optical Fiber Sensors for Gas Sensing Applications. , 2018, , .		0
115	3D Optical Tomography Image Reconstruction in Opaque Media. , 2018, , .		0
116	Smart Carbon Fiber Sensing Systems Applied to Biomechanics. , 2019, , .		0
117	Two-phase flow monitoring with an electrical-optical probe. , 2019, , .		0
118	Distributed Sensor Calibration by Gaussian Approximation. , 2019, , .		0
119	Improving sensitivity of FBG strain sensor embedded in polymer attached at transformer core. , 2019, , .		0
120	Building Structure with Pendulum Neutralizer Vibration Analysis Using FBGs Strain Sensors. , 2019, , .		0
121	Simulation Software for an Optical FBG Sensor Applied in Flow Measurements. , 2021, , .		0
122	Electromagnetic Contactor Frequency Response Analysis Using Fiber Bragg Grating. , 2021, , .		0
123	Speed Estimation of a Three Phase Induction Motor Using Stator Dynamic Strain Measurement by Fiber Bragg Grating Sensor based in SVR. , 2021, , .		0
124	Automated Prosthesis Control by Using Fiber Bragg Grating Forearm Sensor. , 2021, , .		0