

Jean Carlos Cardozo da Silva

List of Publications by Year in descending order

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124
papers

966
citations

430442

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552369

26
g-index

125
all docs

125
docs citations

125
times ranked

802
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical fiber thermo-refractometer. Optics Express, 2022, 30, 11036.	1.7	11
2	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
3	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
4	Optical System Based on Multiplexed FBGs to Monitor Hand Movements. IEEE Sensors Journal, 2021, 21, 14081-14089.	2.4	6
5	Detection of Multiple Small Temperature Events Simultaneously on a Distributed Temperature Map. IEEE Sensors Journal, 2021, 21, 4582-4589.	2.4	8
6	Horse Gait Identification Using Distributed Acoustic Sensing. IEEE Sensors Journal, 2021, 21, 3058-3065.	2.4	1
7	Fiber-Optic Bragg Grating Sensors for Biomechanical Analysis of Fracture Healing. IEEE Sensors Journal, 2021, 21, 24177-24184.	2.4	3
8	Noninvasive Optical Instrumentation for Bone Healing Process Analysis. IEEE Sensors Journal, 2021, 21, 14060-14068.	2.4	5
9	Faults Diagnosis in Induction Motors Through Thermal Mapping Produced by the RDTS System. IEEE Sensors Journal, 2021, 21, 20061-20068.	2.4	7
10	Influence of process bus on performance of power system protection. Electric Power Systems Research, 2021, 200, 107491.	2.1	4
11	Simulation Software for an Optical FBG Sensor Applied in Flow Measurements. , 2021, , .		0
12	Electromagnetic Contactor Frequency Response Analysis Using Fiber Bragg Grating. , 2021, , .		0
13	Classification dynamic strain patterns in switching devices measured with Fiber Bragg Grating. , 2021, , .		3
14	Fault Analysis in Electromechanical Relays's Switching Using Fiber Bragg Grating. , 2021, , .		2
15	Speed Estimation of a Three Phase Induction Motor Using Stator Dynamic Strain Measurement by Fiber Bragg Grating Sensor based in SVR. , 2021, , .		0
16	Automated Prosthesis Control by Using Fiber Bragg Grating Forearm Sensor. , 2021, , .		0
17	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
18	Electric discharge detection and localization using a distributed optical fiber vibration sensor. Optical Fiber Technology, 2020, 58, 102266.	1.4	16

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19	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
20	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
21	Optical Fiber Transducer for Monitoring Single-Phase and Two-Phase Flows in Pipes. IEEE Sensors Journal, 2020, 20, 5943-5952.	2.4	8
22	Sensing Hydrates in Pipes by a Combined Electrical and Optical Fiber Sensor. IEEE Sensors Journal, 2020, 20, 5012-5018.	2.4	3
23	Raman distributed temperature sensing for end winding of high-power generator. IET Optoelectronics, 2020, 14, 343-349.	1.8	5
24	Evaluation of Balance in Elderly Practicing Physical Activity and Sedentary Elderly by the Electronic Baropodometer. IFMBE Proceedings, 2019, , 811-813.	0.2	0
25	Electrical and Optical Probe for Two-Phase Flow Monitoring. IEEE Sensors Journal, 2019, 19, 8706-8713.	2.4	3
26	Biaxial Optical Accelerometer Based on Ultra-High Numerical Aperture Fiber. IEEE Sensors Journal, 2019, 19, 3690-3697.	2.4	12
27	Smart Carbon Fiber Sensing Systems Applied to Biomechanics. , 2019, , .		0
28	Two-phase flow monitoring with an electrical-optical probe. , 2019, , .		0
29	Distributed Sensor Calibration by Gaussian Approximation. , 2019, , .		0
30	Improving sensitivity of FBG strain sensor embedded in polymer attached at transformer core. , 2019, , .		0
31	Total Variation Deconvolution of Raman Distributed Temperature Sensing Signals. , 2019, , .		1
32	Recognition of Fingers movement Using Fiber Bragg Gratings in Silicon Elastomer Packing. , 2019, , .		1
33	Building Structure with Pendulum Neutralizer Vibration Analysis Using FBGs Strain Sensors. , 2019, , .		0
34	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
35	Smart Carbon Fiber Transtibial Prosthesis Based on Embedded Fiber Bragg Gratings. IEEE Sensors Journal, 2018, 18, 1520-1527.	2.4	21
36	Gas Detection Using LMR-Based Optical Fiber Sensors. Proceedings (mdpi), 2018, 2, 890.	0.2	1

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37	NARX neural network model for strong resolution improvement in a distributed temperature sensor. Applied Optics, 2018, 57, 5859.	0.9	29
38	Biaxial Optical Accelerometer Based on Ultra-High Numerical Aperture Fiber for Structural and Electrical Machines Vibrations Analysis. , 2018, , .		0
39	Optical Fiber Bragg Grating Instrumentation Applied to Horse Gait Detection. IEEE Sensors Journal, 2018, 18, 5778-5785.	2.4	9
40	Dynamic Strain Analysis of Transformer Iron Core with Fiber Bragg Gratings. , 2018, , .		3
41	Smart Carbon Fiber Foot Prosthesis. , 2018, , .		1
42	Considerations for the Development of LMR-based Optical Fiber Sensors for Gas Sensing Applications. , 2018, , .		0
43	WIRED HORSES. , 2018, , .		1
44	3D Optical Tomography Image Reconstruction in Opaque Media. , 2018, , .		0
45	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
46	Broken Bar Fault Detection in Induction Motor by Using Optical Fiber Strain Sensors. IEEE Sensors Journal, 2017, 17, 3669-3676.	2.4	35
47	Photonic sensors: from horse racing to horse power. , 2017, , .		2
48	Strain Mapping in Carbon-Fiber Prosthesis Using Optical Fiber Sensors. IEEE Sensors Journal, 2017, 17, 3-4.	2.4	16
49	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
50	Optical-electrical probe for two-phase flow investigation. , 2017, , .		3
51	Vibration analysis of a cantilever beam with viscoelastic neutralizers using fiber Bragg gratings. , 2017, , .		0
52	Distributed optical fiber microphone. , 2017, , .		4
53	Dual sensor for simultaneous measurement of electrical impedance and temperature during ice formation process. , 2017, , .		0
54	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

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55	Sparse Inverse Chirp-Z Transform of S-Parameter Measurements for Time Domain Analysis of Transmission Line. , 2017, , .		3
56	PDI para o Monitoramento de Rodovias com Imagens Aéreas Obtidas por VANT. , 2017, , .		0
57	Optical quasi-distributed simultaneous vibration and temperature sensing in stator bars of a 370-MVA electric generator. , 2017, , .		0
58	Thermal Monitoring of Photovoltaic module using Optical Fiber Sensors. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2016, 15, 333-348.	0.4	4
59	Sparse Reconstruction for Temperature Distribution Using DTS Fiber Optic Sensors with Applications in Electrical Generator Stator Monitoring. Sensors, 2016, 16, 1425.	2.1	2
60	Dynamic Eccentricity Induced in Induction Motor Detected by Optical Fiber Bragg Grating Strain Sensors. IEEE Sensors Journal, 2016, 16, 4786-4792.	2.4	43
61	Improving Spatial Resolution of Raman DTS Using Total Variation Deconvolution. IEEE Sensors Journal, 2016, 16, 4425-4430.	2.4	42
62	Quasi-distributed fiber Bragg grating temperature sensors for stator bars monitoring of large electric generators. , 2016, , .		0
63	Induction Motors Vibration Monitoring Using a Biaxial Optical Fiber Accelerometer. IEEE Sensors Journal, 2016, 16, 8075-8082.	2.4	60
64	In Vivo Pattern Classification of Ingestive Behavior in Ruminants Using FBG Sensors and Machine Learning. Sensors, 2015, 15, 28456-28471.	2.1	43
65	Thermal and vibration dynamic analysis of an induction motor using optical fiber Bragg gratings. Proceedings of SPIE, 2015, , .	0.8	2
66	In vivo analysis of bone strain using fiber Bragg grating sensor and decision tree algorithm in bovine during masticatory movements. , 2015, , .		0
67	200 MW hydroelectric generator stator surface temperature monitoring using a DTS system. Proceedings of SPIE, 2015, , .	0.8	0
68	Super-resolution algorithm applied in thermal imaging of hydroelectric generators stator using hybrid sensing with DTS and FBG. , 2015, , .		2
69	Thermal Imaging of Hydroelectric Generator Stator Using a DTS System. IEEE Sensors Journal, 2015, 15, 6689-6696.	2.4	25
70	In-vivo determination of chewing patterns using FBG and artificial neural networks. Proceedings of SPIE, 2015, , .	0.8	1
71	Vibration measurement of Induction Motor under dynamic eccentricity using optical fiber Bragg grating sensors. , 2015, , .		4
72	Analysis of vibrations in electrical machines with an optical fiber accelerometer. , 2015, , .		4

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73	Optical fiber sensors: the last step towards mainstream. , 2015, , .		0
74	Thermal Imaging System for Hydroelectric Generator Stator Based on Distributed Optical Sensors. , 2015, , .		2
75	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
76	Photonic Sensors as Imaging Tools for Industrial Monitoring. , 2014, , .		0
77	Determination of Terfenol-D magnetostriction characteristics for sensor application using fiber Bragg grating. Proceedings of SPIE, 2014, , .	0.8	0
78	Ex vivodetermination of chewing patterns using FBG and artificial neural networks. , 2014, , .		1
79	Photonic sensors: from crude oil to engine monitoring. , 2014, , .		0
80	Thermal Mapping of a Radiator in a Hydroelectric Generator using Fiber Bragg Gratings. , 2014, , .		2
81	Temperature Sensing of High Power Generator Stator using DTS. , 2014, , .		0
82	Quasi-Distributed Temperature Measurement for Hydroelectric Generators Bearings via use of Fiber Bragg Gratings. , 2014, , .		0
83	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
84	Optical fiber Bragg grating sensors applied on energy conversion systems. , 2013, , .		4
85	Optical fiber instrumentation of a high power generator and turbine. Proceedings of SPIE, 2013, , .	0.8	1
86	Thermal behavior of a high power generator exciter bridge measured by optical fiber sensors. Proceedings of SPIE, 2013, , .	0.8	2
87	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
88	Determination of chewing patterns in goats using fiber Bragg gratings. Proceedings of SPIE, 2012, , .	0.8	3
89	Force Monitoring in a Maxilla Model and Dentition Using Optical Fiber Bragg Gratings. Sensors, 2012, 12, 11957-11965.	2.1	20
90	Validation of an induction motor thermal model by using fiber Bragg grating temperature sensors. , 2012, , .		1

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91	Temperature sensing in a 175MW power generator. Proceedings of SPIE, 2012, , .	0.8	9
92	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
93	Thermal characteristics analysis of an IGBT using a fiber Bragg grating. Optics and Lasers in Engineering, 2012, 50, 99-103.	2.0	27
94	A power electronics and digital control experiment applied to teaching interdisciplinary in electrical engineering. , 2011, , .		3
95	Fiber Bragg grating sensing applications in temperature monitoring of three-phase induction motors. , 2011, , .		6
96	Monitoring the junction temperature of an IGBT through direct measurement using a fiber Bragg grating. Proceedings of SPIE, 2011, , .	0.8	7
97	Stress monitoring in a maxilla model and dentition. , 2011, , .		5
98	Performance evaluation of an IGBT module by thermal analysis using fiber Bragg grating. Proceedings of SPIE, 2010, , .	0.8	2
99	Load Balance for Multi-Layer Reuse Scenarios on Mobile WiMAX System. , 2010, , .		4
100	Static and dynamic measurements in small induction motors using a fiber Bragg grating interrogation unit. , 2009, , .		3
101	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
102	Interrogation of multiplexed FBG sensors with a strain tuned EDF laser using a high-strength grating. , 2007, , .		0
103	Hybrid wavelength-time domain interrogation system for multiplexed fiber Bragg sensors using a strain-tuned erbium-doped fiber laser. , 2007, , .		1
104	Characterization of an EDF fiber laser strain-tuned by two high- strength fiber bragg gratings. , 2007, , .		0
105	Measurement of composite shrinkage using a fibre optic Bragg grating sensor. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 383-392.	1.9	20
106	Fiber bragg grating temperature sensors used to measure flow in a pipeline. , 2007, , .		3
107	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
108	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

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109	Internal temperature measurements of a concrete cantilever beam using high temperature stable fibre Bragg gratings. , 2006, , .		0
110	Determination of setting expansion of dental materials using fibre optical sensing. Measurement Science and Technology, 2006, 17, 1152-1156.	1.4	25
111	Application of Bragg Grating Sensors in Dental Biomechanics. Journal of Strain Analysis for Engineering Design, 2006, 41, 411-416.	1.0	31
112	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
113	Abnormal growth mechanism of fiber Bragg gratings in high-Germanium-doped fibers. , 2005, , .		0
114	Fibre Bragg grating sensing and finite element analysis of the biomechanics of the mandible. , 2005, , .		14
115	Production and characterization of broad fibre Bragg gratings for photonic devices. , 2005, , .		1
116	Comparison of the temperature dependence of different types of Bragg gratings. Microwave and Optical Technology Letters, 2005, 45, 305-307.	0.9	14
117	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
118	FBG application in the determination of setting expansion of dental materials. , 2005, , .		8
119	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
120	FBG applied in dynamic analysis of an implanted cadaveric mandible. , 2004, , .		11
121	Temperature effects in concrete structures measured with fibre Bragg grating. , 2004, , .		2
122	Development of Bragg grating sensors at CEFET-PR. Optics and Lasers in Engineering, 2003, 39, 511-523.	2.0	6
123	<title>Development of Bragg grating sensors at CEFET-PR and University of Aveiro</title>. , 2001, , .		0
124	Strain studies in electrical energy transmission cables using an optical fiber Bragg grating sensor. , 0, , .		1