Eric Fujiwara

List of Publications by Citations

67 papers	433 citations	13 h-index	17 g-index
92 ext. papers	619 ext. citations	2.6 avg, IF	4.04 L-index

#	Paper	IF	Citations
67	. *IEEE Sensors Journal*, **2014**, 14, 3631-3636	4	34
66	Optical fiber specklegram sensor analysis by speckle pattern division. *Applied Optics*, **2017**, 56, 1585-1590	0.2	33
65	Vibration-based specklegram fiber sensor for measurement of properties of liquids. *Optics and Lasers in Engineering*, **2012**, 50, 1726-1730	4.6	27
64	Optical Fiber Specklegram Sensor for Measurement of Force Myography Signals. *IEEE Sensors Journal*, **2017**, 17, 951-958	4	21
63	Processing of quartz lumps rejected by silicon industry to obtain a raw material for silica glass. *International Journal of Mineral Processing*, **2015**, 135, 65-70		21
62	Development of a tactile sensor based on optical fiber specklegram analysis and sensor data fusion technique. *Sensors and Actuators A: Physical*, **2017**, 263, 677-686	3.9	20
61	Polymer optical fiber specklegram strain sensor with extended dynamic range. *Optical Engineering*, **2018**, 57, 1	1.1	18
60	Optical Fiber Specklegram Chemical Sensor Based on a Concatenated Multimode Fiber Structure. *Journal of Lightwave Technology*, **2019**, 37, 5041-5047	4	16
59	Real-time optical fibre sensor for hydro-alcoholic solutions. *Measurement Science and Technology*, **2010**, 21, 094035	2	16
58	Optical Fiber Force Myography Sensor for Identification of Hand Postures. *Journal of Sensors*, **2018**, 2018, 1-10	2	15
57	Agarose-based structured optical fibre. *Scientific Reports*, **2020**, 10, 7035	4.9	14
56	Evaluation of image matching techniques for optical fiber specklegram sensor analysis. *Applied Optics*, **2018**, 57, 9845-9854	1.7	14
55	Application of an Optical Fiber Sensor on the Determination of Sucrose and Ethanol Concentrations in Process Streams and Effluents of Sugarcane Bioethanol Industry. *IEEE Sensors Journal*, **2012**, 12, 2839-2843	4	13
54	Optical fiber force myography sensor for applications in prosthetic hand control **2018**,		10
53	Development of an optical fiber FMG sensor for the assessment of hand movements and forces **2015**,		9
52	Multimode exposed core fiber specklegram sensor. *Optics Letters*, **2020**, 45, 3212-3215	3	8
51	Quartz sand resources in the Santa Maria Eterna formation, Bahia, Brazil: A geochemical and morphological study. *Journal of South American Earth Sciences*, **2015**, 62, 176-185	2	7

50	Quartz resources in the Serra de Santa Helena formation, Brazil: A geochemical and technological study. *Journal of South American Earth Sciences*, **2014**, 56, 328-338	2	7
49	EVALUATION OF SILICA NANOPARTICLE COLLOIDAL STABILITY WITH A FIBER OPTIC QUASI-ELASTIC LIGHT SCATTERING SENSOR. *Brazilian Journal of Chemical Engineering*, **2019**, 36, 1519-1534	1.7	7
48	Evaluation of Optical Myography Sensor as Predictor of Hand Postures. *IEEE Sensors Journal*, **2019**, 19, 5299-5306	4	6
47	Optical Fiber Anemometer Based on a Multi-FBG Curvature Sensor. *IEEE Sensors Journal*, **2019**, 19, 8727-8732	4	6
46	Opacity measurements on quartz and its influence on silica glass properties. *International Journal of Mineral Processing*, **2013**, 124, 141-144		6
45	Control of optical properties of silica glass synthesized by VAD method for photonic components. *Optical Materials*, **2011**, 33, 1879-1883	3.3	6
44	Kinetic and Thermodynamic Study in Pozzolanic Chemical Systems as an Alternative for Chapelle Test. *Materials Research*, **2018**, 21,	1.5	6
43	A Wearable Robotic Glove based on Optical FMG Driven Controller **2019**,		5
42	Development of a glove-based optical fiber sensor for applications in human-robot interaction **2013**,		5
41	Evaluation of Thumb-Operated Directional Pad Functionalities on a Glove-Based Optical Fiber Sensor. *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 2330-2337	5.2	5
40	Optical Classification of Quartz Lascas by Artificial Neural Networks. *Mineral Processing and Extractive Metallurgy Review*, **2015**, 36, 281-287	3.1	5
39	All-Optical Fiber Anemometer Based on the Pitot-Static Tube. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 1805-1811	5.2	5
38	Perfusion Microfermentor Integrated into a Fiber Optic Quasi-Elastic Light Scattering Sensor for Fast Screening of Microbial Growth Parameters. *Sensors*, **2019**, 19,	3.8	4
37	Development of an optical fiber transducer applied to the measurement of finger movements **2012** ,		4
36	Integrated Optical Fiber Force Myography Sensor as Pervasive Predictor of Hand Postures. *Biomedical Engineering and Computational Biology*, **2020**, 11, 1179597220912825	3.6	4
35	Effect of Microstructure Features on the Corrosion Behavior of the Sn-2.1 wt%Mg Solder Alloy. *Electronic Materials Letters*, **2020**, 16, 276-292	2.9	3
34	Design of a glove-based optical fiber sensor for applications in biomechatronics **2014**,		3
33	Measurement of multi-point displacements by optical fiber specklegram sensor **2017**,		3

32	Measurement of sucrose and ethanol concentrations in process streams and effluents of sugarcane bioethanol industry by optical fiber sensor **2011**,		3
31	Application of Optical Fiber Sensor on Fermentation Monitoring **2018**,		3
30	Agarose-Based Fluorescent Waveguide with Embedded Silica Nanoparticle□Carbon Nanodot Hybrids for pH Sensing. *ACS Applied Nano Materials*, **2021**, 4, 9738-9751	5.6	3
29	Haptic Interface Based on Optical Fiber Force Myography Sensor **2019**,		2
28	Optical myography sensor for gesture recognition **2018**,		2
27	Identification of hand postures by force myography using an optical fiber specklegram sensor **2015**,		2
26	A method to synthesize SiO2□TiO2 glasses based on the synergy between VAD and ALD techniques: study of TiO2doping profile along radial direction. *Optical Materials*, **2011**, 33, 1938-1942	3.3	2
25	Reusable polymer optical fiber strain sensor with memory capability based on ABS crazing. *Applied Optics*, **2019**, 58, 9870-9875	1.7	2
24	Optical fiber tactile sensor for user interfaces **2016**,		2
23	Fast Microwave-Assisted Synthesis of Green-Fluorescent Carbon Nanodots from Sugarcane Syrup **2019**,		2
22	Optical Fiber Chemical Sensor Based on the Analysis of Fiber Specklegrams Characteristics **2018**,		2
21	Optical Fiber Sensor as an Alternative for Colorimetric Image Processing for the Assessment of Dye Concentration **2018**,		2
20	Strategic High Quality Quartz Supply for Fusion into Silica Glass. *Ceramic Transactions*,69-74	0.1	2
19	Assessment of shear zone-derived quartz from the Etam area, southwest Cameroon as potential high-purity quartz resource: petrography, geochemistry and technological studies. *SN Applied Sciences*, **2020**, 2, 1	1.8	1
18	Evaluation of Silica Nanofluids in Static and Dynamic Conditions by an Optical Fiber Sensor. *Sensors*, **2020**, 20,	3.8	1
17	Technical and Economic Viability Analysis of Optical Fiber Sensors for Monitoring Industrial Bioreactors **2020**, 2,		1
16	Identification of Hand Gestures Using the Inertial Measurement Unit of a Smartphone: A Proof-of-Concept Study. *IEEE Sensors Journal*, **2021**, 21, 13916-13923	4	1
15	Optical myography system for posture monitoring **2016**,		1

List of Publications

14	Online Monitoring of Cell Growth on PDMS-PDMS Reversible Microfluidic Bioreactor Integrated to Optical Fiber Sensor **2019**,		1
13	Using the Smartphone as an Ubiquitous Platform for Implementing Optical Fiber Sensors **2019**,		1
12	A Hybrid Control Strategy for Tendon-actuated Robotic Glove and Functional Electrical Stimulation A Preliminary Study **2019**,		1
11	. *IEEE Sensors Journal*, **2021**, 21, 1534-1539	4	1
10	Modular approach for control design of an autonomous two-wheeled inverted pendulum. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2018**, 40, 1	2	1
9	Design of Tendon-Actuated Robotic Glove Integrated with Optical Fiber Force Myography Sensor. *Automation*, **2021**, 2, 187-201	0.8	1
8	A modular, reversible sealing, and reusable microfluidic device for drug screening. *Analytica Chimica Acta*, **2021**, 1185, 339068	6.6	1
7	Entropy analysis of optical fiber specklegram sensors. *Results in Optics*, **2021**, 5, 100155	1	1
6	Model-Based Design and Simulation of Paraxial Ray Optics Systems. *Applied Sciences (Switzerland)*, **2020**, 10, 8278	2.6	0
5	Dynamic Monitoring of Multi-Concentrated Silica Nanoparticles Colloidal Environment with Optical Fiber Sensor. *Proceedings (mdpi)*, **2020**, 42, 6	0.3	
4	Vapor-Phase Axial Deposition Synthesis of SiO2 and SiO2-TiO2 Sponge-Shaped Nanostructures. *Key Engineering Materials*, **2020**, 846, 3-8	0.4	
3	A Quantitative Experiment of Liquid Dispersion Using Merely a Partially Submerged Mirror and Sunlight. *Physics Teacher*, **2022**, 60, 140-143	0.4	
2	Use of Optical Fiber Sensor for Monitoring the Degradation of Ac-Dex Biopolymeric Nanoparticles. *Proceedings (mdpi)*, **2020**, 42, 12	0.3	
1	All-optical real-time monitoring of air/vacuum valves in water pipeline systems using fiber Bragg gratings. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2022**, 44, 1	2	