

# Eric Fujiwara

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A Quantitative Experiment of Liquid Dispersion Using Merely a Partially Submerged Mirror and Sunlight. <i>Physics Teacher</i> , <b>2022</b> , 60, 140-143	0.4	
66	All-optical real-time monitoring of air/vacuum valves in water pipeline systems using fiber Bragg gratings. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2022</b> , 44, 1	2	
65	Identification of Hand Gestures Using the Inertial Measurement Unit of a Smartphone: A Proof-of-Concept Study. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 13916-13923	4	1
64	. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 1534-1539	4	1
63	Agarose-Based Fluorescent Waveguide with Embedded Silica Nanoparticle/Carbon Nanodot Hybrids for pH Sensing. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 9738-9751	5.6	3
62	Design of Tendon-Actuated Robotic Glove Integrated with Optical Fiber Force Myography Sensor. <i>Automation</i> , <b>2021</b> , 2, 187-201	0.8	1
61	A modular, reversible sealing, and reusable microfluidic device for drug screening. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1185, 339068	6.6	1
60	Entropy analysis of optical fiber specklegram sensors. <i>Results in Optics</i> , <b>2021</b> , 5, 100155	1	1
59	Dynamic Monitoring of Multi-Concentrated Silica Nanoparticles Colloidal Environment with Optical Fiber Sensor. <i>Proceedings (mdpi)</i> , <b>2020</b> , 42, 6	0.3	
58	Agarose-based structured optical fibre. <i>Scientific Reports</i> , <b>2020</b> , 10, 7035	4.9	14
57	Assessment of shear zone-derived quartz from the Etam area, southwest Cameroon as potential high-purity quartz resource: petrography, geochemistry and technological studies. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	1
56	Vapor-Phase Axial Deposition Synthesis of SiO <sub>2</sub> and SiO <sub>2</sub> -TiO <sub>2</sub> Sponge-Shaped Nanostructures. <i>Key Engineering Materials</i> , <b>2020</b> , 846, 3-8	0.4	
55	Effect of Microstructure Features on the Corrosion Behavior of the Sn-2.1 wt%Mg Solder Alloy. <i>Electronic Materials Letters</i> , <b>2020</b> , 16, 276-292	2.9	3
54	Evaluation of Silica Nanofluids in Static and Dynamic Conditions by an Optical Fiber Sensor. <i>Sensors</i> , <b>2020</b> , 20,	3.8	1
53	Technical and Economic Viability Analysis of Optical Fiber Sensors for Monitoring Industrial Bioreactors <b>2020</b> , 2,		1
52	Multimode exposed core fiber specklegram sensor. <i>Optics Letters</i> , <b>2020</b> , 45, 3212-3215	3	8
51	Use of Optical Fiber Sensor for Monitoring the Degradation of Ac-Dex Biopolymeric Nanoparticles. <i>Proceedings (mdpi)</i> , <b>2020</b> , 42, 12	0.3	

50	Model-Based Design and Simulation of Paraxial Ray Optics Systems. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8278	2.6	0
49	All-Optical Fiber Anemometer Based on the Pitot-Static Tube. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 1805-1811	5.2	5
48	Integrated Optical Fiber Force Myography Sensor as Pervasive Predictor of Hand Postures. <i>Biomedical Engineering and Computational Biology</i> , <b>2020</b> , 11, 1179597220912825	3.6	4
47	Perfusion Microfermentor Integrated into a Fiber Optic Quasi-Elastic Light Scattering Sensor for Fast Screening of Microbial Growth Parameters. <i>Sensors</i> , <b>2019</b> , 19,	3.8	4
46	Optical Fiber Specklegram Chemical Sensor Based on a Concatenated Multimode Fiber Structure. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 5041-5047	4	16
45	Haptic Interface Based on Optical Fiber Force Myography Sensor <b>2019</b> ,		2
44	Evaluation of Optical Myography Sensor as Predictor of Hand Postures. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 5299-5306	4	6
43	Optical Fiber Anemometer Based on a Multi-FBG Curvature Sensor. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 8727-8732	4	6
42	A Wearable Robotic Glove based on Optical FMG Driven Controller <b>2019</b> ,		5
41	Reusable polymer optical fiber strain sensor with memory capability based on ABS crazing. <i>Applied Optics</i> , <b>2019</b> , 58, 9870-9875	1.7	2
40	EVALUATION OF SILICA NANOPARTICLE COLLOIDAL STABILITY WITH A FIBER OPTIC QUASI-ELASTIC LIGHT SCATTERING SENSOR. <i>Brazilian Journal of Chemical Engineering</i> , <b>2019</b> , 36, 1519-1534	1.7	7
39	Online Monitoring of Cell Growth on PDMS-PDMS Reversible Microfluidic Bioreactor Integrated to Optical Fiber Sensor <b>2019</b> ,		1
38	Fast Microwave-Assisted Synthesis of Green-Fluorescent Carbon Nanodots from Sugarcane Syrup <b>2019</b> ,		2
37	Using the Smartphone as an Ubiquitous Platform for Implementing Optical Fiber Sensors <b>2019</b> ,		1
36	A Hybrid Control Strategy for Tendon-actuated Robotic Glove and Functional Electrical Stimulation [A Preliminary Study] <b>2019</b> ,		1
35	Optical Fiber Force Myography Sensor for Identification of Hand Postures. <i>Journal of Sensors</i> , <b>2018</b> , 2018, 1-10	2	15
34	Optical fiber force myography sensor for applications in prosthetic hand control <b>2018</b> ,		10
33	Optical myography sensor for gesture recognition <b>2018</b> ,		2

32	Polymer optical fiber specklegram strain sensor with extended dynamic range. <i>Optical Engineering</i> , <b>2018</b> , 57, 1	1.1	18
31	Evaluation of image matching techniques for optical fiber specklegram sensor analysis. <i>Applied Optics</i> , <b>2018</b> , 57, 9845-9854	1.7	14
30	Application of Optical Fiber Sensor on Fermentation Monitoring <b>2018</b> ,		3
29	Optical Fiber Chemical Sensor Based on the Analysis of Fiber Specklegrams Characteristics <b>2018</b> ,		2
28	Optical Fiber Sensor as an Alternative for Colorimetric Image Processing for the Assessment of Dye Concentration <b>2018</b> ,		2
27	Kinetic and Thermodynamic Study in Pozzolan Chemical Systems as an Alternative for Chapelle Test. <i>Materials Research</i> , <b>2018</b> , 21,	1.5	6
26	Modular approach for control design of an autonomous two-wheeled inverted pendulum. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2018</b> , 40, 1	2	1
25	Optical Fiber Specklegram Sensor for Measurement of Force Myography Signals. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 951-958	4	21
24	Optical fiber specklegram sensor analysis by speckle pattern division. <i>Applied Optics</i> , <b>2017</b> , 56, 1585-1590.	2	33
23	Development of a tactile sensor based on optical fiber specklegram analysis and sensor data fusion technique. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 263, 677-686	3.9	20
22	Measurement of multi-point displacements by optical fiber specklegram sensor <b>2017</b> ,		3
21	Optical myography system for posture monitoring <b>2016</b> ,		1
20	Optical fiber tactile sensor for user interfaces <b>2016</b> ,		2
19	Quartz sand resources in the Santa Maria Eterna formation, Bahia, Brazil: A geochemical and morphological study. <i>Journal of South American Earth Sciences</i> , <b>2015</b> , 62, 176-185	2	7
18	Development of an optical fiber FMG sensor for the assessment of hand movements and forces <b>2015</b> ,		9
17	Identification of hand postures by force myography using an optical fiber specklegram sensor <b>2015</b> ,		2
16	Processing of quartz lumps rejected by silicon industry to obtain a raw material for silica glass. <i>International Journal of Mineral Processing</i> , <b>2015</b> , 135, 65-70		21
15	Optical Classification of Quartz Lascas by Artificial Neural Networks. <i>Mineral Processing and Extractive Metallurgy Review</i> , <b>2015</b> , 36, 281-287	3.1	5

14	Design of a glove-based optical fiber sensor for applications in biomechatronics <b>2014</b> ,		3
13	. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 3631-3636	4	34
12	Quartz resources in the Serra de Santa Helena formation, Brazil: A geochemical and technological study. <i>Journal of South American Earth Sciences</i> , <b>2014</b> , 56, 328-338	2	7
11	Opacity measurements on quartz and its influence on silica glass properties. <i>International Journal of Mineral Processing</i> , <b>2013</b> , 124, 141-144		6
10	Development of a glove-based optical fiber sensor for applications in human-robot interaction <b>2013</b> ,		5
9	Evaluation of Thumb-Operated Directional Pad Functionalities on a Glove-Based Optical Fiber Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2013</b> , 62, 2330-2337	5.2	5
8	Application of an Optical Fiber Sensor on the Determination of Sucrose and Ethanol Concentrations in Process Streams and Effluents of Sugarcane Bioethanol Industry. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 2839-2843	4	13
7	Vibration-based specklegram fiber sensor for measurement of properties of liquids. <i>Optics and Lasers in Engineering</i> , <b>2012</b> , 50, 1726-1730	4.6	27
6	Development of an optical fiber transducer applied to the measurement of finger movements <b>2012</b> ,		4
5	Measurement of sucrose and ethanol concentrations in process streams and effluents of sugarcane bioethanol industry by optical fiber sensor <b>2011</b> ,		3
4	Control of optical properties of silica glass synthesized by VAD method for photonic components. <i>Optical Materials</i> , <b>2011</b> , 33, 1879-1883	3.3	6
3	A method to synthesize SiO <sub>2</sub> /TiO <sub>2</sub> glasses based on the synergy between VAD and ALD techniques: study of TiO <sub>2</sub> doping profile along radial direction. <i>Optical Materials</i> , <b>2011</b> , 33, 1938-1942	3.3	2
2	Real-time optical fibre sensor for hydro-alcoholic solutions. <i>Measurement Science and Technology</i> , <b>2010</b> , 21, 094035	2	16
1	Strategic High Quality Quartz Supply for Fusion into Silica Glass. <i>Ceramic Transactions</i> , 69-74	0.1	2