

Eric Fujiwara

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

809
citations

567144

15
h-index

610775

24
g-index

92
all docs

92
docs citations

92
times ranked

591
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Optical Fiber Bending Transducer for Application in Glove-Based Sensors. IEEE Sensors Journal, 2014, 14, 3631-3636.	2.4	55
2	Optical fiber specklegram sensor analysis by speckle pattern division. Applied Optics, 2017, 56, 1585.	2.1	47
3	Evaluation of image matching techniques for optical fiber specklegram sensor analysis. Applied Optics, 2018, 57, 9845.	0.9	40
4	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.	2.6	37
5	Optical Fiber Specklegram Chemical Sensor Based on a Concatenated Multimode Fiber Structure. Journal of Lightwave Technology, 2019, 37, 5041-5047.	2.7	37
6	Agarose-based structured optical fibre. Scientific Reports, 2020, 10, 7035.	1.6	36
7	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.	2.0	34
8	Vibration-based specklegram fiber sensor for measurement of properties of liquids. Optics and Lasers in Engineering, 2012, 50, 1726-1730.	2.0	33
9	Optical Fiber Specklegram Sensor for Measurement of Force Myography Signals. IEEE Sensors Journal, 2017, 17, 951-958.	2.4	33
10	Polymer optical fiber specklegram strain sensor with extended dynamic range. Optical Engineering, 2018, 57, 1.	0.5	33
11	Multimode exposed core fiber specklegram sensor. Optics Letters, 2020, 45, 3212.	1.7	30
12	Optical Fiber Force Myography Sensor for Identification of Hand Postures. Journal of Sensors, 2018, 2018, 1-10.	0.6	29
13	Real-time optical fibre sensor for hydro-alcoholic solutions. Measurement Science and Technology, 2010, 21, 094035.	1.4	20
14	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.	2.4	19
15	Machine learning for sensing with a multimode exposed core fiber specklegram sensor. Optics Express, 2022, 30, 10443.	1.7	18
16	Optical fiber force myography sensor for applications in prosthetic hand control. , 2018, , .		17
17	Agarose-Based Fluorescent Waveguide with Embedded Silica Nanoparticle-“Carbon Nanodot Hybrids for pH Sensing. ACS Applied Nano Materials, 2021, 4, 9738-9751.	2.4	16
18	Development of an optical fiber FMG sensor for the assessment of hand movements and forces. , 2015, , .		13

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19	Control of optical properties of silica glass synthesized by VAD method for photonic components. <i>Optical Materials</i> , 2011, 33, 1879-1883.	1.7	12
20	A Wearable Robotic Glove based on Optical FMG Driven Controller. , 2019, , .		12
21	Integrated Optical Fiber Force Myography Sensor as Pervasive Predictor of Hand Postures. <i>Biomedical Engineering and Computational Biology</i> , 2020, 11, 117959722091282.	0.8	12
22	Optical Fiber Anemometer Based on a Multi-FBG Curvature Sensor. <i>IEEE Sensors Journal</i> , 2019, 19, 8727-8732.	2.4	10
23	Evaluation of Optical Myography Sensor as Predictor of Hand Postures. <i>IEEE Sensors Journal</i> , 2019, 19, 5299-5306.	2.4	10
24	Development of a glove-based optical fiber sensor for applications in human-robot interaction. , 2013, , .		9
25	Design of Tendon-Actuated Robotic Glove Integrated with Optical Fiber Force Myography Sensor. <i>Automation</i> , 2021, 2, 187-201.	1.2	9
26	EVALUATION OF SILICA NANOPARTICLE COLLOIDAL STABILITY WITH A FIBER OPTIC QUASI-ELASTIC LIGHT SCATTERING SENSOR. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 1519-1534.	0.7	9
27	Quartz sand resources in the Santa Maria Eterna formation, Bahia, Brazil: A geochemical and morphological study. <i>Journal of South American Earth Sciences</i> , 2015, 62, 176-185.	0.6	8
28	Kinetic and Thermodynamic Study in Pozzolanic Chemical Systems as an Alternative for Chappelle Test. <i>Materials Research</i> , 2018, 21, .	0.6	8
29	Measurement of sucrose and ethanol concentrations in process streams and effluents of sugarcane bioethanol industry by optical fiber sensor. , 2011, , .		7
30	Opacity measurements on quartz and its influence on silica glass properties. <i>International Journal of Mineral Processing</i> , 2013, 124, 141-144.	2.6	7
31	Evaluation of Thumb-Operated Directional Pad Functionalities on a Glove-Based Optical Fiber Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 2330-2337.	2.4	7
32	Quartz resources in the Serra de Santa Helena formation, Brazil: A geochemical and technological study. <i>Journal of South American Earth Sciences</i> , 2014, 56, 328-338.	0.6	7
33	Optical Classification of Quartz Lascas by Artificial Neural Networks. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2015, 36, 281-287.	2.6	7
34	All-Optical Fiber Anemometer Based on the Pitot-Static Tube. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 1805-1811.	2.4	7
35	Identification of Hand Gestures Using the Inertial Measurement Unit of a Smartphone: A Proof-of-Concept Study. <i>IEEE Sensors Journal</i> , 2021, 21, 13916-13923.	2.4	7
36	Effect of Microstructure Features on the Corrosion Behavior of the Sn-2.1Åwt%Mg Solder Alloy. <i>Electronic Materials Letters</i> , 2020, 16, 276-292.	1.0	6

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37	Evaluation of Silica Nanofluids in Static and Dynamic Conditions by an Optical Fiber Sensor. <i>Sensors</i> , 2020, 20, 707.	2.1	6
38	A modular, reversible sealing, and reusable microfluidic device for drug screening. <i>Analytica Chimica Acta</i> , 2021, 1185, 339068.	2.6	6
39	Reusable polymer optical fiber strain sensor with memory capability based on ABS crazing. <i>Applied Optics</i> , 2019, 58, 9870.	0.9	6
40	Perfusion Microfermentor Integrated into a Fiber Optic Quasi-Elastic Light Scattering Sensor for Fast Screening of Microbial Growth Parameters. <i>Sensors</i> , 2019, 19, 2493.	2.1	5
41	A Hybrid Control Strategy for Tendon-actuated Robotic Glove and Functional Electrical Stimulation "A Preliminary Study. , 2019, , .		5
42	A method to synthesize SiO ₂ -TiO ₂ glasses based on the synergy between VAD and ALD techniques: study of TiO ₂ doping profile along radial direction. <i>Optical Materials</i> , 2011, 33, 1938-1942.	1.7	4
43	Development of an optical fiber transducer applied to the measurement of finger movements. , 2012, , .		4
44	Design of a glove-based optical fiber sensor for applications in biomechatronics. , 2014, , .		4
45	Identification of hand postures by force myography using an optical fiber specklegram sensor. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
46	Measurement of multi-point displacements by optical fiber specklegram sensor. , 2017, , .		4
47	Fast Microwave-Assisted Synthesis of Green-Fluorescent Carbon Nanodots from Sugarcane Syrup. , 2019, , .		4
48	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> , 2020, 2, 1.	1.5	4
49	Didactic laser speckle experiments with a lensless camera. <i>European Journal of Physics</i> , 2021, 42, 065303.	0.3	4
50	Application of Optical Fiber Sensor on Fermentation Monitoring. , 2018, , .		4
51	Optical fiber tactile sensor for user interfaces. , 2016, , .		3
52	Optical Fiber Chemical Sensor Based on the Analysis of Fiber Specklegrams Characteristics. , 2018, , .		3
53	Haptic Interface Based on Optical Fiber Force Myography Sensor. , 2019, , .		3
54	Model-Based Design and Simulation of Paraxial Ray Optics Systems. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8278.	1.3	3

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55	Optical myography system for posture monitoring. , 2016, , .		2
56	Optical fiber tactile sensor based on fiber specklegram analysis. Proceedings of SPIE, 2017, , .	0.8	2
57	Characterization of Colloidal Silica by Optical Fiber Sensor. , 2018, , .		2
58	Optical Fiber Sensor as an Alternative for Colorimetric Image Processing for the Assessment of Dye Concentration. , 2018, , .		2
59	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.	0.8	2
60	Optical myography sensor for gesture recognition. , 2018, , .		2
61	Online Monitoring of Cell Growth on PDMS-PDMS Reversible Microfluidic Bioreactor Integrated to Optical Fiber Sensor. , 2019, , .		2
62	Using the Smartphone as an Ubiquitous Platform for Implementing Optical Fiber Sensors. , 2019, , .		2
63	Measurement of Multiphase Flow by Tilted Optical Fiber Bragg Grating Sensor. IEEE Sensors Journal, 2021, 21, 1534-1539.	2.4	2
64	Identification of Dynamic Hand Gestures with Force Myography. , 2021, , .		2
65	Enhancing the measurement range of laser speckle systems. Microwave and Optical Technology Letters, 0, , .	0.9	2
66	Simulation Study of Deposition Parameters for Elliptical-Shaped Preforms by VAD for Polarization-Maintaining Fibers. AIP Conference Proceedings, 2008, , .	0.3	1
67	Real-time monitoring of fermentation process applied to sugarcane bioethanol production. Proceedings of SPIE, 2012, , .	0.8	1
68	Concentration measurements in silica and quartz nanofluids by optical fiber sensor. Proceedings of SPIE, 2015, , .	0.8	1
69	Optical Fiber 3D Shape Sensor for Motion Capture. , 2019, , .		1
70	Entropy analysis of optical fiber specklegram sensors. Results in Optics, 2021, 5, 100155.	0.9	1
71	Technical and Economic Viability Analysis of Optical Fiber Sensors for Monitoring Industrial Bioreactors. , 2020, 2, .		1
72	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.	0.8	1

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73	Real-time optical fiber sensor for hydro-alcoholic solutions. , 2009, , .		0
74	Modular approach for motion control design of three-dimensional two-wheeled inverted pendulum. , 2018, , .		0
75	Optical Fiber Specklegram Sensors for Measurement of Liquids : (Invited Paper). , 2019, , .		0
76	Use of Optical Fiber Sensor for Monitoring the Degradation of Ac-Dex Biopolymeric Nanoparticles. Proceedings (mdpi), 2020, 42, 12.	0.2	0
77	Smartphone-Based Optical Fiber Sensor for the Assessment of a Fed-Batch Bioreactor. , 2020, , .		0
78	Dynamic Monitoring of Multi-Concentrated Silica Nanoparticles Colloidal Environment with Optical Fiber Sensor. Proceedings (mdpi), 2019, 42, .	0.2	0
79	AR Flashcards for Asian Language Learning. , 2020, , .		0
80	Vapor-Phase Axial Deposition Synthesis of SiO ₂ and SiO ₂ -TiO ₂ Sponge-Shaped Nanostructures. Key Engineering Materials, 0, 846, 3-8.	0.4	0
81	Development of algorithms for hand movements classification based on optical fiber force myography signals. , 0, , .		0
82	Development of an optical fiber force myography sensor based on Raspberry Pi for identification of hand postures. , 0, , .		0
83	Development of an optical fiber sensor for monitoring the flow of colloidal nanoparticles. , 0, , .		0
84	Using a mobile smartphone as a low cost optical sensor. , 0, , .		0
85	One-Step Synthesis of Fluorescent Carbon Nanodots from Two Widely Available Natural Sources. , 2020, , .		0
86	Deep Learning-based Specklegram Strain Sensor with Extended Dynamic Range. , 2021, , .		0
87	Assessment of Hand Posture and Grip Force by Optical Fiber Force Myography Sensor. , 2020, , .		0
88	Characterization of Hand Gestures by a Smartphone-Based Optical Fiber Force Myography Sensor. , 2020, 2, .		0
89	A Quantitative Experiment of Liquid Dispersion Using Merely a Partially Submerged Mirror and Sunlight. Physics Teacher, 2022, 60, 140-143.	0.2	0
90	Optical Fiber Specklegram Sensor for Probe Position Tracking. , 2022, , .		0