

# Josefina Gutierrez

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

292  
citations

1163117

8  
h-index

1058476

14  
g-index

48  
all docs

48  
docs citations

48  
times ranked

342  
citing authors

#	ARTICLE	IF	CITATIONS
1	Motor Imagery-Based Brain-Computer Interface Coupled to a Robotic Hand Orthosis Aimed for Neurorehabilitation of Stroke Patients. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-10.	1.9	62
2	An approach to improve the performance of subject-independent BCIs-based on motor imagery allocating subjects by gender. <i>BioMedical Engineering OnLine</i> , 2014, 13, 158.	2.7	27
3	Proposal and Evaluation of a Telerehabilitation Platform Designed for Patients With Partial Rotator Cuff Tears: A Preliminary Study. <i>Annals of Rehabilitation Medicine</i> , 2016, 40, 710.	1.6	21
4	Analysis and localization of epileptic events using wavelet packets. <i>Medical Engineering and Physics</i> , 2001, 23, 623-631.	1.7	18
5	Double Slot Antenna for Microwave Thermal Ablation to Treat Bone Tumors: Modeling and Experimental Evaluation. <i>Electronics (Switzerland)</i> , 2021, 10, 761.	3.1	15
6	Business Model for the Security of a Large-Scale PACS, Compliance with ISO/27002:2013 Standard. <i>Journal of Digital Imaging</i> , 2015, 28, 481-491.	2.9	12
7	Feasibility of the microwave and ultrasound ablation as alternatives to treat bone tumors. , 2017, , .		10
8	Computer-aided diagnosis in rheumatic diseases using ultrasound: an overview. <i>Clinical Rheumatology</i> , 2020, 39, 993-1005.	2.2	10
9	sEMG Signal Acquisition Strategy towards Hand FES Control. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-11.	1.9	9
10	Development of a thermographic image instrument using the raspberry Pi embedded system for the study of the diabetic foot. , 2018, , .		8
11	Thermal Evaluation of a Micro-Coaxial Antenna Set to Treat Bone Tumors: Design, Parametric FEM Modeling and Evaluation in Multilayer Phantom and Ex Vivo Porcine Tissue. <i>Electronics (Switzerland)</i> , 2021, 10, 2289.	3.1	8
12	Control signal for a mechatronic hand orthosis aimed for neurorehabilitation. , 2015, , .		7
13	Theoretical model of MW antennas to treat bone tumors: One slot and one slot choked antennas. , 2017, , .		7
14	Classification of motor imagery electroencephalography signals using spiking neurons with different input encoding strategies. <i>Neural Computing and Applications</i> , 2018, 30, 1289-1301.	5.6	7
15	Embedded EEG Recording Module with Active Electrodes for Motor Imagery Brain-Computer Interface. <i>IEEE Latin America Transactions</i> , 2016, 14, 503-510.	1.6	6
16	A Software and Hardware Architecture for a High-Availability PACS. <i>Journal of Digital Imaging</i> , 2012, 25, 471-479.	2.9	4
17	Spiking Neural Networks Trained with Particle Swarm Optimization for Motor Imagery Classification. <i>Lecture Notes in Computer Science</i> , 2016, , 245-252.	1.3	4
18	Characterization of a Longwave infrared imager for the telemetric measurement of human skin temperature of diabetic foot. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
19	Microwave ablation to treat bone tumors by using a double slot antenna: A modelling study. , 2017, , .		4
20	Acoustic field modeling of focused ultrasound transducers using non-uniform radiation distributions. , 2017, , .		4
21	Programming of a system for the acquisition of images and thermographic data for the diabetic foot analysis. , 2017, , .		4
22	An Application for Skin Macules Characterization Based on a 3-Stage Image-Processing Algorithm for Patients with Diabetes. Journal of Healthcare Engineering, 2018, 2018, 1-13.	1.9	4
23	A Dependable Massive Storage Service for Medical Imaging. Journal of Digital Imaging, 2018, 31, 628-639.	2.9	4
24	Neuroprosthesis Devices Based on Micro- and Nanosensors: A Systematic Review. Journal of Sensors, 2020, 2020, 1-19.	1.1	4
25	Advances in imaging technologies for the assessment of peripheral neuropathies in rheumatoid arthritis. Rheumatology International, 2021, 41, 519-528.	3.0	4
26	Design and implementation of a medical image viewing system based on software engineering at Instituto Nacional de Rehabilitaci&#x00F3;n. , 2009, , .		3
27	Improving osteoporosis diagnosis in children using image texture analysis. , 2011, 2011, 6184-7.		3
28	Neuroprostheses: Significance in Gait Rehabilitation. Biosystems and Biorobotics, 2018, , 427-446.	0.3	3
29	Module to present and identify motor imagery tasks in electroencephalography. , 2013, , .		2
30	Time-frequency analysis of EEG signals from healthy subjects allocated by gender for a subject-independent BCI-based on motor imagery. , 2013, , .		2
31	A System for Simultaneous Finger Joints Goniometric Measurements Based on Inertial Sensors. IEEE Latin America Transactions, 2017, 15, 1821-1826.	1.6	2
32	Motion deficit in nodal interphalangeal joint osteoarthritis by digital goniometer in housewives. Clinical Rheumatology, 2018, 37, 1645-1652.	2.2	2
33	<title>A strategy for PACS development using introductory team software process</title>. , 2005, , .		1
34	Mechanical structure prototype and control unit for an active orthosis for a human had. , 2014, , .		1
35	Transceiver system for obstacle detection based on bat echolocation with air-coupled pulse-echo ultrasound. , 2017, , .		1
36	Nonuniform Bessel-Based Radiation Distributions on A Spherically Curved Boundary for Modeling the Acoustic Field of Focused Ultrasound Transducers. Applied Sciences (Switzerland), 2019, 9, 911.	2.5	1

#	ARTICLE	IF	CITATIONS
37	ON/OFF sEMG Switch for FES Activation. , 2019, , .		1
38	Personalized protocol and scoring scale for functional electrical stimulation of the hand: A pilot feasibility study. Technology and Health Care, 2021, 30, 51-63.	1.2	1
39	Design Specifications and Usability Issues Considered in the User Centered Design of a Wearable Exoskeleton for Upper Limb of Children with Spastic Cerebral Palsy. Biosystems and Biorobotics, 2019, , 192-195.	0.3	1
40	Low-Intensity Pulsed Ultrasound Effect on MIO-M1 Cell Viability: Setup Validation and Standing Waves Analysis. Applied Sciences (Switzerland), 2021, 11, 271.	2.5	1
41	A comparison between French and Mexican Technovigilance process. , 2016, , .		0
42	Computational method to measure vascular lesions in human brain digital images. , 2017, , .		0
43	Electromechanical System for the Functional Evaluation of Muscular Activity during the Active Movement in the Elbow Joint. , 2019, , .		0
44	Design of a Visual Stimulation Module for a P300-based Brain Computer Interface that uses Pictures of Hand Movements. , 2021, , .		0
45	Technology for Hearing Evaluation. , 0, , .		0
46	Computational Strategy for the Generation of the Clinical Histories of Patients with Diabetic Foot. IFMBE Proceedings, 2020, , 1506-1512.	0.3	0
47	Instrumental Proposal to Determine the State of Health of the Patients with Diabetic Foot. IFMBE Proceedings, 2020, , 1492-1498.	0.3	0
48	Open Architecture for the Control of a Neuroprosthesis by Means of a Mobile Device. Communications in Computer and Information Science, 2020, , 25-31.	0.5	0