

Jose Gomez-Tames

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

986
citations

516561

16
h-index

501076

28
g-index

60
all docs

60
docs citations

60
times ranked

1148
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature elevation in the human brain and skin with thermoregulation during exposure to RF energy. <i>BioMedical Engineering OnLine</i> , 2018, 17, 1.	1.3	112
2	Influence of population density, temperature, and absolute humidity on spread and decay durations of COVID-19: A comparative study of scenarios in China, England, Germany, and Japan. <i>One Health</i> , 2021, 12, 100203.	1.5	99
3	Influence of Absolute Humidity, Temperature and Population Density on COVID-19 Spread and Decay Durations: Multi-Prefecture Study in Japan. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5354.	1.2	75
4	Atlas of optimal coil orientation and position for TMS: A computational study. <i>Brain Stimulation</i> , 2018, 11, 839-848.	0.7	58
5	Computational Artifacts of the In Situ Electric Field in Anatomical Models Exposed to Low-Frequency Magnetic Field. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018, 60, 589-597.	1.4	49
6	Group-level and functional-region analysis of electric-field shape during cerebellar transcranial direct current stimulation with different electrode montages. <i>Journal of Neural Engineering</i> , 2019, 16, 036001.	1.8	45
7	Significant group-level hotspots found in deep brain regions during transcranial direct current stimulation (tDCS): A computational analysis of electric fields. <i>Clinical Neurophysiology</i> , 2020, 131, 755-765.	0.7	43
8	A high-resolution computational localization method for transcranial magnetic stimulation mapping. <i>NeuroImage</i> , 2018, 172, 85-93.	2.1	42
9	Human exposure to radiofrequency energy above 6 GHz: review of computational dosimetry studies. <i>Physics in Medicine and Biology</i> , 2021, 66, 08TR01.	1.6	41
10	A simulation study: Effect of the inter-electrode distance, electrode size and shape in Transcutaneous Electrical Stimulation. , 2012, 2012, 3576-9.		28
11	Deep Learning-Based Development of Personalized Human Head Model With Non-Uniform Conductivity for Brain Stimulation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2351-2362.	5.4	28
12	Intraoperative direct subcortical stimulation: comparison of monopolar and bipolar stimulation. <i>Physics in Medicine and Biology</i> , 2018, 63, 225013.	1.6	23
13	Review on biophysical modelling and simulation studies for transcranial magnetic stimulation. <i>Physics in Medicine and Biology</i> , 2020, 65, 24TR03.	1.6	23
14	Effect of microscopic modeling of skin in electrical and thermal analysis of transcranial direct current stimulation. <i>Physics in Medicine and Biology</i> , 2016, 61, 8825-8838.	1.6	22
15	Spatial Averaging Schemes of <i>In Situ</i> Electric Field for Low-Frequency Magnetic Field Exposures. <i>IEEE Access</i> , 2019, 7, 184320-184331.	2.6	22
16	End-to-end semantic segmentation of personalized deep brain structures for non-invasive brain stimulation. <i>Neural Networks</i> , 2020, 125, 233-244.	3.3	20
17	Development of accurate human head models for personalized electromagnetic dosimetry using deep learning. <i>NeuroImage</i> , 2019, 202, 116132.	2.1	19
18	Group-level analysis of induced electric field in deep brain regions by different TMS coils. <i>Physics in Medicine and Biology</i> , 2020, 65, 025007.	1.6	17

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19	TMS activation site estimation using multiscale realistic head models. <i>Journal of Neural Engineering</i> , 2020, 17, 036004.	1.8	16
20	Evaluation method for <i>in situ</i> electric field in standardized human brain for different transcranial magnetic stimulation coils. <i>Physics in Medicine and Biology</i> , 2017, 62, 2224-2238.	1.6	15
21	Human Head Skin Thickness Modeling for Electromagnetic Dosimetry. <i>IEEE Access</i> , 2019, 7, 46176-46186.	2.6	12
22	Implementing Feedback Error Learning for FES control. , 2011, , .		11
23	A Simulation Study on the Dominance of the Tissues' Conductivity in the Muscle Recruitment. <i>Journal of Medical Imaging and Health Informatics</i> , 2013, 3, 72-78.	0.2	11
24	Influence of Different Geometric Representations of the Volume Conductor on Nerve Activation during Electrical Stimulation. <i>Computational and Mathematical Methods in Medicine</i> , 2014, 2014, 1-10.	0.7	11
25	Multiscale Computational Model Reveals Nerve Response in a Mouse Model for Temporal Interference Brain Stimulation. <i>Frontiers in Neuroscience</i> , 2021, 15, 684465.	1.4	11
26	Corticomotoneuronal Model for Intraoperative Neurophysiological Monitoring During Direct Brain Stimulation. <i>International Journal of Neural Systems</i> , 2019, 29, 1850026.	3.2	10
27	Electrical Characterisation of A β -Fibres Based on Human <i>in vivo</i> Electrostimulation Threshold. <i>Frontiers in Neuroscience</i> , 2020, 14, 588056.	1.4	10
28	A human-phantom coupling experiment and a dispersive simulation model for investigating the variation of dielectric properties of biological tissues. <i>Computers in Biology and Medicine</i> , 2015, 61, 144-149.	3.9	9
29	Multiphysics and Thermal Response Models to Improve Accuracy of Local Temperature Estimation in Rat Cortex under Microwave Exposure. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 358.	1.2	9
30	Influence of segmentation accuracy in structural MR head scans on electric field computation for TMS and tES. <i>Physics in Medicine and Biology</i> , 2021, 66, 064002.	1.6	9
31	Nonequivalent After-Effects of Alternating Current Stimulation on Motor Cortex Oscillation and Inhibition: Simulation and Experimental Study. <i>Brain Sciences</i> , 2022, 12, 195.	1.1	9
32	Brain Cortical Stimulation Thresholds to Different Magnetic Field Sources Exposures at Intermediate Frequencies. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 1944-1952.	1.4	7
33	Effect of Skin-to-Skin Contact on Stimulation Threshold and Dosimetry. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020, 62, 2704-2713.	1.4	7
34	Variable Impedance Control Based on Impedance Estimation Model with EMG Signals during Extension and Flexion Tasks for a Lower Limb Rehabilitation Robotic System. <i>Journal of Novel Physiotherapies</i> , 2013, 03, .	0.1	6
35	Brain AI: Deep Learning for Brain Stimulation. <i>IEEE Pulse</i> , 2019, 10, 3-5.	0.1	6
36	The Effect of an Auxiliary Stimulation on Motor Function Restoration by FES. <i>Journal of Medical Systems</i> , 2011, 35, 855-861.	2.2	4

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37	Unsupervised muscle region extraction by fuzzy decision based saliency feature integration on thigh MRI for 3D modeling. , 2015, , .		4
38	Dosimetry Analysis in Non-brain Tissues During TMS Exposure of Broca's and M1 Areas. Frontiers in Neuroscience, 2021, 15, 644951.	1.4	4
39	Evaluation of Peripheral Electrostimulation Thresholds in Human Model for Uniform Magnetic Field Exposure. International Journal of Environmental Research and Public Health, 2022, 19, 390.	1.2	4
40	H-reflex measurement and a simulation model for interpreting the effect of an auxiliary electrical stimulation on FES. , 2010, 2010, 5843-6.		3
41	An experimental study on the effect of fat conductivity on voltage distribution and muscle recruitment using tissue-equivalent phantoms. , 2013, , .		3
42	Pulse-Coupled Neural Network Segmentation and Bottom-Up Saliency-On Feature Extraction for Thigh Magnetic Resonance Imaging Based 3D Model Construction. Journal of Medical Imaging and Health Informatics, 2014, 4, 220-229.	0.2	3
43	Ultrasound imaging and semi-automatic analysis of active muscle features in electrical stimulation by optical flow. , 2014, 2014, 250-3.		3
44	Setting Reference Level in Human Safety Guidelines via Cortical Nerve Activation Intercomparison at IF. , 2019, , .		3
45	Combined Simulation of Bioelectromagnetics and Nerve Activation and its Application. IEEE Transactions on Fundamentals and Materials, 2018, 138, 265-270.	0.2	3
46	Ultrasound Imaging and Analysis of Muscle Activity in Lower Limb. Biosystems and Biorobotics, 2013, , 455-459.	0.2	2
47	Modeling bimanual coordination using back propagation neural network and radial basis function network. , 2014, , .		2
48	Generation of Head Models for Brain Stimulation Using Deep Convolution Networks. , 2019, , .		2
49	Synaptic Effect of A β -Fibers by Pulse-Train Electrical Stimulation. Frontiers in Neuroscience, 2021, 15, 643448.	1.4	2
50	Reduction in Human Interaction with Magnetic Resonant Coupling WPT Systems with Grounded Loop. Energies, 2021, 14, 7253.	1.6	2
51	Influence of fat thickness and femur location on nerve activity computation during electrical stimulation. , 2013, , .		1
52	Temporal muscle activation assessment by ultrasound imaging during flexor withdrawal reflex and voluntary contraction. , 2013, 2013, 3618-21.		1
53	Needle detection by electro-localization for a needle EMG exam robotic simulator. , 2015, , .		1
54	Three-dimensional needle-tip localization by electric field potential and camera hybridization for needle electromyography exam robotic simulator. Medical Devices: Evidence and Research, 2016, 9, 143.	0.4	1

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55	Coil orientation affects pain sensation during single-pulse transcranial magnetic stimulation over Broca's area. <i>Clinical Neurophysiology Practice</i> , 2021, 6, 234-238.	0.6	1
56	Assessment of nerve morphology in nerve activation during electrical stimulation. , 2013, , .		0
57	Salient Region Detection and Analysis Based on the Weighted Band-Pass Features. <i>Journal of Software Engineering and Applications</i> , 2013, 06, 43-48.	0.8	0
58	Magneto-stimulation System for Brain Based on Medical Images. , 2022, , 355-359.		0