

# Juan Pablo P Ugarte

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

158  
citations

1478505

6  
h-index

1199594

12  
g-index

40  
all docs

40  
docs citations

40  
times ranked

159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Approximate Entropy Electroanatomic Maps Detect Rotors in a Simulated Atrial Fibrillation Model. PLoS ONE, 2014, 9, e114577.	2.5	33
2	The fractional Fourier transform as a biomedical signal and image processing tool: A review. Biocybernetics and Biomedical Engineering, 2020, 40, 1081-1093.	5.9	20
3	Effect of the electrograms density in detecting and ablating the tip of the rotor during chronic atrial fibrillation: an <i>in silico</i> study. Europace, 2015, 17, ii97-ii104.	1.7	19
4	Atrial Rotor Dynamics Under Complex Fractional Order Diffusion. Frontiers in Physiology, 2018, 9, 975.	2.8	19
5	A COMPLEX ORDER MODEL OF ATRIAL ELECTRICAL PROPAGATION FROM FRACTAL POROUS CELL MEMBRANE. Fractals, 2020, 28, 2050106.	3.7	9
6	Entropy Mapping Approach for Functional Reentry Detection in Atrial Fibrillation: An In-Silico Study. Entropy, 2019, 21, 194.	2.2	8
7	Electroanatomical mapping based on discrimination of electrograms clusters for localization of critical sites in atrial fibrillation. Progress in Biophysics and Molecular Biology, 2019, 141, 37-46.	2.9	7
8	Bioacoustic Signals Denoising Using the Undecimated Discrete Wavelet Transform. Communications in Computer and Information Science, 2018, , 300-308.	0.5	6
9	Spontaneous activation under atrial fibrosis: A model using complex order derivatives. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105618.	3.3	5
10	The Effects of Fibrotic Cell Type and Its Density on Atrial Fibrillation Dynamics: An In Silico Study. Cells, 2021, 10, 2769.	4.1	5
11	Generation of fibrillatory dynamics in cardiac tissue: fractional diffusion as arrhythmogenic mechanism modelling tool. Applied Mathematical Sciences, 2017, 11, 637-650.	0.1	4
12	Vowel characterization of Spanish speakers from Antioquiaâ€“Colombia using a specific-parameterized discrete wavelet transform analysis. Applied Acoustics, 2021, 172, 107635.	3.3	4
13	Fractional generalization of entropy improves the characterization of rotors in simulated atrial fibrillation. Applied Mathematics and Computation, 2022, 425, 127077.	2.2	4
14	Fractionated electrograms and rotors detection in chronic atrial fibrillation using model-based clustering. , 2014, 2014, 1579-82.		2
15	Complexity of Atrial Fibrillation Electrograms Through Nonlinear Signal Analysis: In Silico Approach. , 2017, , .		2
16	In-silico study of the ionic current gradients determining left-to-right atrial frequencies during paroxysmal atrial fibrillation. Simulation, 2019, 95, 1129-1139.	1.8	2
17	Localization of complex fractionated atrial electrograms by approximate entropy in a 3D model of human atria. , 2013, , .		1
18	Assessment protocol of wrist flexion and extension to support processes in occupational health using Myo Armband. IFMBE Proceedings, 2017, , 585-588.	0.3	1

#	ARTICLE	IF	CITATIONS
19	Dofetilide effect on human atrial action potential under normal and atrial fibrillation conditions. In silico study. IFMBE Proceedings, 2017, , 38-41.	0.3	1
20	Local synchronization indices for rotors detection in atrial fibrillation: A simulation study. Communications in Nonlinear Science and Numerical Simulation, 2021, 94, 105548.	3.3	1
21	CO, Pb++ and SO2 effects on L-type calcium channel and action potential in human atrial myocytes. In silico study. Tecno LÁgicas, 2017, 20, 113-123.	0.3	1
22	Atrial proarrhythmic effect of lead as one of the PM10 metal components of air pollution. An in-silico study. PLoS ONE, 2021, 16, e0258313.	2.5	1
23	Genesis of Atrial Fibrillation Under Different Diffuse Fibrosis Density Related with Atmospheric Pollution. In-Silico Study. Communications in Computer and Information Science, 2020, , 291-301.	0.5	1
24	A computational view of electrophysiological properties under different atrial fibrosis conditions. Applied Mathematical Modelling, 2022, 105, 534-550.	4.2	1
25	Nonlinear measures characterize atrial fibrillatory dynamics generated using fractional diffusion. IFMBE Proceedings, 2017, , 541-544.	0.3	0
26	Lead and Carbon Monoxide Effects on Human Atrial Action Potential. In Silico Study. , 0, , .		0
27	Sulfur Dioxide Effects on Human Atrial Action Potential. In Silico Study. , 0, , .		0
28	Heterogeneous Acoustic Features Space for Automatic Classification of Drone Audio Signals. Communications in Computer and Information Science, 2021, , 97-109.	0.5	0
29	Carbon Monoxide Effect on Human Cardiac Tissue. In Silico Study. Communications in Computer and Information Science, 2021, , 160-170.	0.5	0
30	Atrial Rotor Modulation by Localized Dofetilide Application: An In Silico Study. , 0, , .		0
31	Proliferation of Fibroblast Modulates the Action Potential Duration Dispersion: An Atrial Fibrosis Model Using Fractional Diffusion. , 0, , .		0
32	Human Atrial Electrophysiological Models Under Fractional Derivative: Depolarization and Repolarization Dynamics During Normal and Fibrillation Conditions. Communications in Computer and Information Science, 2019, , 440-450.	0.5	0
33	Quantifying Irregular Morphology Electrograms in Atrial Fibrillation Using Fractional Fourier Domains. Communications in Computer and Information Science, 2020, , 245-256.	0.5	0
34	A Comparison of Wavelet, LPC and Cepstrum Techniques for Formant Estimation in Spanish and English Speakers. Communications in Computer and Information Science, 2020, , 85-96.	0.5	0
35	Nonlinear interdependence of electrograms as a tool to characterize propagation patterns in atrial fibrillation. Biomedical Signal Processing and Control, 2022, 72, 103282.	5.7	0