

Juan J Perez

List of Publications by Year in descending order

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29
papers

293
citations

1040056

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16
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31
all docs

31
docs citations

31
times ranked

175
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical and Thermal Effects of Esophageal Temperature Probes on Radiofrequency Catheter Ablation of Atrial Fibrillation: Results from a Computational Modeling Study. <i>Journal of Cardiovascular Electrophysiology</i> , 2015, 26, 556-564.	1.7	41
2	Should fluid dynamics be included in computer models of RF cardiac ablation by irrigated-tip electrodes?. <i>BioMedical Engineering OnLine</i> , 2018, 17, 43.	2.7	35
3	Numerical analysis of thermal impact of intramyocardial capillary blood flow during radiofrequency cardiac ablation. <i>International Journal of Hyperthermia</i> , 2018, 34, 243-249.	2.5	27
4	Differences in applied electrical power between full thorax models and limited-domain models for RF cardiac ablation. <i>International Journal of Hyperthermia</i> , 2020, 37, 677-687.	2.5	22
5	Computer modeling of radiofrequency cardiac ablation: 30 years of bioengineering research. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 214, 106546.	4.7	18
6	Computer modeling of electrical and thermal performance during bipolar pulsed radiofrequency for pain relief. <i>Medical Physics</i> , 2014, 41, 071708.	3.0	15
7	Computer Modeling for Radiofrequency Bipolar Ablation Inside Ducts and Vessels: Relation Between Pullback Speed and Impedance Progress. <i>Lasers in Surgery and Medicine</i> , 2020, 52, 897-906.	2.1	15
8	Quantification of intracranial contribution to rheoencephalography by a numerical model of the head. <i>Clinical Neurophysiology</i> , 2000, 111, 1306-1314.	1.5	12
9	Influence of the scalp thickness on the intracranial contribution to rheoencephalography. <i>Physics in Medicine and Biology</i> , 2004, 49, 4383-4394.	3.0	11
10	Suppression of the cardiac electric field artifact from the heart action evoked potential. <i>Medical and Biological Engineering and Computing</i> , 2005, 43, 572-581.	2.8	10
11	Computer modeling and ex vivo experiments with a (saline-linked) irrigated electrode for RF-assisted heating. <i>BioMedical Engineering OnLine</i> , 2014, 13, 164.	2.7	10
12	Can Fat Deposition After Myocardial Infarction Alter the Performance of RF Catheter Ablation of Scar-Related Ventricular Tachycardia?: Results from a Computer Modeling Study. <i>Journal of Cardiovascular Electrophysiology</i> , 2016, 27, 947-952.	1.7	10
13	Thermal impact of replacing constant voltage by low-frequency sine wave voltage in RF ablation computer modeling. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105673.	4.7	10
14	To what extent is the bipolar rheoencephalographic signal contaminated by scalp blood flow? A clinical study to quantify its extra and non-extracranial components. <i>BioMedical Engineering OnLine</i> , 2014, 13, 131.	2.7	9
15	Computer modeling of radiofrequency cardiac ablation including heartbeat-induced electrode displacement. <i>Computers in Biology and Medicine</i> , 2022, 144, 105346.	7.0	9
16	Relationship between luminal esophageal temperature and volume of esophageal injury during RF ablation: In silico study comparing low power-moderate duration vs. high power-short duration. <i>Journal of Cardiovascular Electrophysiology</i> , 2022, 33, 220-230.	1.7	8
17	Spatiotemporal pattern of the extracranial component of the rheoencephalographic signal. <i>Physiological Measurement</i> , 2005, 26, 925-938.	2.1	7
18	Thermal impact of balloon occlusion of the coronary sinus during mitral isthmus radiofrequency ablation: an in-silico study. <i>International Journal of Hyperthermia</i> , 2019, 36, 1167-1176.	2.5	6

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19	Low-energy (360Â) radiofrequency catheter ablation using moderate powerâ€%â€%short duration: proof of concept based on in silico modeling. Journal of Interventional Cardiac Electrophysiology, 2023, 66, 1085-1093.	1.3	6
20	Extraction of the Intracranial Component from the Rheoencephalographic Signal: A New Approach. , 2006, 2006, 6064-7.		3
21	New Perspectives in Rheoencephalography. , 2008, , 990-997.		2
22	Opened-Ring Electrode Array for Enhanced Non-invasive Monitoring of Bioelectrical Signals: Application to Surface EEnG Recording. Communications in Computer and Information Science, 2014, , 26-40.	0.5	2
23	Computer Modeling of Irrigated-tip Electrodes During RF Cardiac Ablation: Comparative Analysis between Including and Excluding the Problem of Fluid Dynamics. , 0, , .		2
24	Sensitivity of rheoencephalographic measurements to spatial brain electrical conductivity. , 2006, 2006, 6088-91.		1
25	Aspectos teÃ³ricos sobre la biofÃsica de la radiofrecuencia aplicada al tratamiento del dolor. Revista De La Sociedad Espanola Del Dolor, 2014, 21, 351-358.	0.1	1
26	RF-energised intracoronary guidewire to enhance bipolar ablation of the interventricular septum: in-silico feasibility study. International Journal of Hyperthermia, 2018, 34, 1202-1212.	2.5	1
27	Characterization of the sensitivity of a TCB laplacian sensor for surface EEnG recordings. , 2009, 2009, 2308-11.		0
28	Enhanced Rheoencephalography. , 2008, , 519-526.		0
29	Extraction of the Intracranial Component from the Rheoencephalographic Signal: A New Approach. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0