

# Miguel Rodrigo

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

833  
citations

623734

14  
h-index

526287

27  
g-index

51  
all docs

51  
docs citations

51  
times ranked

854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Body surface localization of left and right atrial high-frequency rotors in atrial fibrillation patients: A clinical-computational study. <i>Heart Rhythm</i> , 2014, 11, 1584-1591.	0.7	120
2	Intrinsically stretchable electrode array enabled in vivo electrophysiological mapping of atrial fibrillation at cellular resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14769-14778.	7.1	108
3	Presence and stability of rotors in atrial fibrillation: evidence and therapeutic implications. <i>Cardiovascular Research</i> , 2016, 109, 480-492.	3.8	78
4	Clinical Implications of Ablation of Drivers for Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006119.	4.8	78
5	Technical Considerations on Phase Mapping for Identification of Atrial Reentrant Activity in Direct- and Inverse-Computed Electrograms. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017, 10, .	4.8	57
6	Regularization Techniques for ECG Imaging during Atrial Fibrillation: A Computational Study. <i>Frontiers in Physiology</i> , 2016, 7, 466.	2.8	44
7	Noninvasive Estimation of Epicardial Dominant High-Frequency Regions During Atrial Fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2016, 27, 435-442.	1.7	40
8	Balance between sodium and calcium currents underlying chronic atrial fibrillation termination: An in silico intersubject variability study. <i>Heart Rhythm</i> , 2016, 13, 2358-2365.	0.7	36
9	Interaction of Localized Drivers and Disorganized Activation in Persistent Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005846.	4.8	33
10	Highest dominant frequency and rotor positions are robust markers of driver location during noninvasive mapping of atrial fibrillation: A computational study. <i>Heart Rhythm</i> , 2017, 14, 1224-1233.	0.7	30
11	Identification of Dominant Excitation Patterns and Sources of Atrial Fibrillation by Causality Analysis. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2364-2376.	2.5	23
12	Noninvasive Assessment of Complexity of Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e007700.	4.8	23
13	Solving Inaccuracies in Anatomical Models for Electrocardiographic Inverse Problem Resolution by Maximizing Reconstruction Quality. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 733-740.	8.9	22
14	Electrocardiographic Imaging for Atrial Fibrillation: A Perspective From Computer Models and Animal Experiments to Clinical Value. <i>Frontiers in Physiology</i> , 2021, 12, 653013.	2.8	20
15	Ablation of Focal Impulses and Rotational Sources: What Can Be Learned from Differing Procedural Outcomes?. <i>Current Cardiovascular Risk Reports</i> , 2017, 11, 1.	2.0	16
16	Minimal configuration of body surface potential mapping for discrimination of left versus right dominant frequencies during atrial fibrillation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2017, 40, 940-946.	1.2	12
17	The continuous challenge of AF ablation: From foci to rotational activity. <i>Revista Portuguesa De Cardiologia (English Edition)</i> , 2017, 36, 9-17.	0.2	10
18	Characterization of atrial arrhythmias in body surface potential mapping: A computational study. <i>Computers in Biology and Medicine</i> , 2020, 127, 103904.	7.0	9

#	ARTICLE	IF	CITATIONS
19	An Automata-Based Cardiac Electrophysiology Simulator to Assess Arrhythmia Inducibility. <i>Mathematics</i> , 2022, 10, 1293.	2.2	8
20	A robust wavelet-based approach for dominant frequency analysis of atrial fibrillation in body surface signals. <i>Physiological Measurement</i> , 2020, 41, 075004.	2.1	7
21	Non-invasive Spatial Mapping of Frequencies in Atrial Fibrillation: Correlation With Contact Mapping. <i>Frontiers in Physiology</i> , 2020, 11, 611266.	2.8	6
22	Atrial fibrillation signatures on intracardiac electrograms identified by deep learning. <i>Computers in Biology and Medicine</i> , 2022, 145, 105451.	7.0	6
23	Atrial location optimization by electrical measures for Electrocardiographic Imaging. <i>Computers in Biology and Medicine</i> , 2020, 127, 104031.	7.0	4
24	Prognostic Score and Benefit from Abiraterone in First-line Metastatic, Castration-resistant Prostate Cancer. <i>European Urology</i> , 2021, 80, 641-649.	1.9	4
25	Atrial sources identification by causality analysis during atrial fibrillation. , 2015, 2015, 3783-6.		3
26	Online webinar training to analyse complex atrial fibrillation maps: A randomized trial. <i>PLoS ONE</i> , 2019, 14, e0217988.	2.5	3
27	Phase singularity point tracking for the identification of typical and atypical flutter patients: A clinical-computational study. <i>Computers in Biology and Medicine</i> , 2019, 104, 319-328.	7.0	3
28	Novel three-dimensional imaging approach for cryoballoon navigation and confirmation of pulmonary vein occlusion. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2020, 43, 269-277.	1.2	3
29	Electrocardiographic imaging including intracardiac information to achieve accurate global mapping during atrial fibrillation. <i>Biomedical Signal Processing and Control</i> , 2021, 64, 102354.	5.7	3
30	Three dimensional reconstruction to visualize atrial fibrillation activation patterns on curved atrial geometry. <i>PLoS ONE</i> , 2021, 16, e0249873.	2.5	3
31	Classification of resting, anticipation and movement states in self-initiated arm movements for EEG brain computer interfaces. , 2011, 2011, 6285-8.		2
32	Reply to the Editor's "On misuse of null hypothesis testing: Analysis of biophysical model simulations. <i>Heart Rhythm</i> , 2017, 14, e50-e51.	0.7	2
33	Electrophysiological Parameters in the Electrical Propagation During Atrial Fibrillation: a Population of Models Study. , 0, , .		2
34	Noninvasive Identification of Atrial Fibrillation Drivers: Simulation and Patient Data Evaluation. , 0, , .		2
35	Statistical guidance of VT ablation. <i>Journal of Cardiovascular Electrophysiology</i> , 2018, 29, 987-989.	1.7	1
36	Automatic quality electrogram assessment improves phase-based reentrant activity identification in atrial fibrillation. <i>Computers in Biology and Medicine</i> , 2020, 117, 103593.	7.0	1

#	ARTICLE	IF	CITATIONS
37	Reinterpreting complex atrial tachycardia maps using global atrial vectors. Journal of Cardiovascular Electrophysiology, 2021, 32, 1918-1920.	1.7	1
38	B-AB16-04 DEEP LEARNING IMPROVES ON CLASSICAL FEATURES FOR IDENTIFYING ATRIAL TACHYARRHYTHMIAS FROM INTRACARDIAC ELECTROGRAMS. Heart Rhythm, 2021, 18, S32.	0.7	1
39	Solving Inaccuracies in the Heart Position and Orientation for Inverse Solution by Using Electrical Information. , 0, , .		1
40	Performance of Inverse Problem Regularization Methods for Driver Location during Atrial Fibrillation. , 0, , .		1
41	DH-575-01 MACHINE LEARNING-ENABLED MULTIMODAL FUSION OF INTRA-ATRIAL AND BODY SURFACE SIGNALS IN PREDICTION OF ATRIAL FIBRILLATION ABLATION OUTCOMES. Heart Rhythm, 2022, 19, S20-S21.	0.7	1
42	Ablation of Atrial Fibrillation Drivers. , 2019, , 279-291.e2.		0
43	B-PO02-044 ELECTROGRAM FINGERPRINTS OF ATRIAL FIBRILLATION. Heart Rhythm, 2021, 18, S113-S114.	0.7	0
44	Data Analysis in Cardiac Arrhythmias. Methods in Molecular Biology, 2015, 1246, 217-235.	0.9	0
45	Personalization of Atrial Fibrillation Antiarrhythmic Drug Treatments: a Population of Models Approach. , 0, , .		0
46	Evaluation of Inverse Problem with Slow-Conducting Channel in Scar Area in a Post-Infarction Model. , 0, , .		0
47	Abstract 17299: AF Drivers Where Ablation Terminates Persistent AF Fluctuate Due to Competing Drivers but Remain Anchored in Specific Locations. Circulation, 2018, 138, .	1.6	0
48	Non-invasive Mechanism Classification and Localization in Supraventricular Cardiac Arrhythmias. , 2021, , .		0
49	PO-685-04 DIFFERING DISTRIBUTION OF PREMATURE ATRIAL COMPLEXES THAT DO AND DO NOT PRECIPITATE SPONTANEOUS ATRIAL FIBRILLATION BY NON-INVASIVE IMAGING. Heart Rhythm, 2022, 19, S377.	0.7	0