

Jos Joaquin Rieta

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123 papers	1,801 citations	22 h-index	39 g-index
179 ext. papers	2,225 ext. citations	2.6 avg, IF	4.87 L-index

#	Paper	IF	Citations
123	Atrial activity extraction for atrial fibrillation analysis using blind source separation. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 1176-86	5	153
122	Analysis of surface electrocardiograms in atrial fibrillation: techniques, research, and clinical applications. <i>Europace</i> , 2006 , 8, 911-26	3.9	127
121	Application of the phasor transform for automatic delineation of single-lead ECG fiducial points. <i>Physiological Measurement</i> , 2010 , 31, 1467-85	2.9	117
120	A review on sample entropy applications for the non-invasive analysis of atrial fibrillation electrocardiograms. <i>Biomedical Signal Processing and Control</i> , 2010 , 5, 1-14	4.9	108
119	Spatiotemporal blind source separation approach to atrial activity estimation in atrial tachyarrhythmias. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 258-67	5	93
118	Adaptive singular value cancelation of ventricular activity in single-lead atrial fibrillation electrocardiograms. <i>Physiological Measurement</i> , 2008 , 29, 1351-69	2.9	68
117	Optimal parameters study for sample entropy-based atrial fibrillation organization analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2010 , 99, 124-32	6.9	67
116	Application of the relative wavelet energy to heart rate independent detection of atrial fibrillation. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 131, 157-68	6.9	54
115	Comparison of atrial signal extraction algorithms in 12-lead ECGs with atrial fibrillation. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 343-6	5	48
114	Wavelet Entropy Automatically Detects Episodes of Atrial Fibrillation from Single-Lead Electrocardiograms. <i>Entropy</i> , 2015 , 17, 6179-6199	2.8	42
113	Automatic segmentation and 3D reconstruction of intravascular ultrasound images for a fast preliminar evaluation of vessel pathologies. <i>Computerized Medical Imaging and Graphics</i> , 2007 , 31, 71-80	7.6	42
112	Sample entropy of the main atrial wave predicts spontaneous termination of paroxysmal atrial fibrillation. <i>Medical Engineering and Physics</i> , 2009 , 31, 917-22	2.4	40
111	Estimation of atrial fibrillatory wave from single-lead atrial fibrillation electrocardiograms using principal component analysis concepts. <i>Medical and Biological Engineering and Computing</i> , 2005 , 43, 557-60	3.1	37
110	Classification of paroxysmal and persistent atrial fibrillation in ambulatory ECG recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 1441-9	5	36
109	Comparative study of methods for ventricular activity cancellation in atrial electrograms of atrial fibrillation. <i>Physiological Measurement</i> , 2007 , 28, 925-36	2.9	34
108	Wavelet bidomain sample entropy analysis to predict spontaneous termination of atrial fibrillation. <i>Physiological Measurement</i> , 2008 , 29, 65-80	2.9	28
107	Morphological variability of the P-wave for premature envision of paroxysmal atrial fibrillation events. <i>Physiological Measurement</i> , 2014 , 35, 1-14	2.9	27

106	A non-invasive method to predict electrical cardioversion outcome of persistent atrial fibrillation. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 625-35	3.1	27
105	A novel application of sample entropy to the electrocardiogram of atrial fibrillation. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 1026-1035	2.1	26
104	Non-invasive organization variation assessment in the onset and termination of paroxysmal atrial fibrillation. <i>Computer Methods and Programs in Biomedicine</i> , 2009 , 93, 148-54	6.9	24
103	Convolutional blind source separation algorithms applied to the electrocardiogram of atrial fibrillation: study of performance. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 1530-3	5	23
102	Application of Entropy-Based Features to Predict Defibrillation Outcome in Cardiac Arrest. <i>Entropy</i> , 2016 , 18, 313	2.8	22
101	Assessment of non-invasive time and frequency atrial fibrillation organization markers with unipolar atrial electrograms. <i>Physiological Measurement</i> , 2011 , 32, 99-114	2.9	21
100	Atrial activity extraction based on blind source separation as an alternative to QRST cancellation for atrial fibrillation analysis		20
99	Noninvasive time and frequency predictors of long-standing atrial fibrillation early recurrence after electrical cardioversion. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2011 , 34, 1241-50	1.6	19
98	Study on the P-wave feature time course as early predictors of paroxysmal atrial fibrillation. <i>Physiological Measurement</i> , 2012 , 33, 1959-74	2.9	19
97	Atrial activity extraction from atrial fibrillation episodes based on maximum likelihood source separation. <i>Signal Processing</i> , 2005 , 85, 523-535	4.4	19
96	Packet wavelet decomposition: An approach for atrial activity extraction		18
95	The application of nonlinear metrics to assess organization differences in short recordings of paroxysmal and persistent atrial fibrillation. <i>Physiological Measurement</i> , 2010 , 31, 115-30	2.9	17
94	Business creation by immigrant entrepreneurs in the valencian community. The influence of education. <i>International Entrepreneurship and Management Journal</i> , 2014 , 10, 409-426	4.9	16
93	Application of Wavelet Entropy to predict atrial fibrillation progression from the surface ECG. <i>Computational and Mathematical Methods in Medicine</i> , 2012 , 2012, 245213	2.8	16
92	Short-time regularity assessment of fibrillatory waves from the surface ECG in atrial fibrillation. <i>Physiological Measurement</i> , 2012 , 33, 969-84	2.9	15
91	Comparison of atrial rhythm extraction techniques for the estimation of the main atrial frequency from the 12-lead electrocardiogram in atrial fibrillation		14
90	Electrocardiographic Spectral Features for Long-Term Outcome Prognosis of Atrial Fibrillation Catheter Ablation. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 3307-3318	4.7	13
89	Radial basis function neural networks applied to efficient QRST cancellation in atrial fibrillation. <i>Computers in Biology and Medicine</i> , 2013 , 43, 154-63	7	13

88	Time and frequency recurrence analysis of persistent atrial fibrillation after electrical cardioversion. <i>Physiological Measurement</i> , 2009 , 30, 479-89	2.9	13
87	Dynamic time warping applied to estimate atrial fibrillation temporal organization from the surface electrocardiogram. <i>Medical Engineering and Physics</i> , 2013 , 35, 1341-8	2.4	12
86	A novel wavelet-based filtering strategy to remove powerline interference from electrocardiograms with atrial fibrillation. <i>Physiological Measurement</i> , 2018 , 39, 115006	2.9	12
85	Surface ECG organization analysis to predict paroxysmal atrial fibrillation termination. <i>Computers in Biology and Medicine</i> , 2009 , 39, 697-706	7	11
84	Atrial fibrillation, atrial flutter and normal sinus rhythm discrimination by means of blind source separation and spectral parameters extraction		11
83	Fuzzy and Sample Entropies as Predictors of Patient Survival Using Short Ventricular Fibrillation Recordings during out of Hospital Cardiac Arrest. <i>Entropy</i> , 2018 , 20,	2.8	10
82	Role of the P-wave high frequency energy and duration as noninvasive cardiovascular predictors of paroxysmal atrial fibrillation. <i>Computer Methods and Programs in Biomedicine</i> , 2015 , 119, 110-9	6.9	9
81	Central tendency measure and wavelet transform combined in the non-invasive analysis of atrial fibrillation recordings. <i>BioMedical Engineering OnLine</i> , 2012 , 11, 46	4.1	9
80	. <i>Journal of Medical and Biological Engineering</i> , 2013 , 33, 239	2.2	9
79	Application of artificial neural networks for versatile preprocessing of electrocardiogram recordings. <i>Journal of Medical Engineering and Technology</i> , 2012 , 36, 90-101	1.8	9
78	Caracterizaci3n no invasiva de la actividad auricular durante los instantes previos a la terminaci3n de la fibrilaci3n auricular parox3stica. <i>Revista Espanola De Cardiologia</i> , 2008 , 61, 154-160	1.5	9
77	A Deep Learning Approach for Featureless Robust Quality Assessment of Intermittent Atrial Fibrillation Recordings from Portable and Wearable Devices. <i>Entropy</i> , 2020 , 22,	2.8	8
76	A new method for automatic delineation of ECG fiducial points based on the Phasor Transform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4586-9	0.9	8
75	Atrial fibrillation analysis based on ICA including statistical and temporal source information		8
74	Gaussian modeling of the P-wave morphology time course applied to anticipate paroxysmal atrial fibrillation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 1775-84	2.1	7
73	Alteration of the P-wave non-linear dynamics near the onset of paroxysmal atrial fibrillation. <i>Medical Engineering and Physics</i> , 2015 , 37, 692-7	2.4	7
72	Time and frequency series combination for non-invasive regularity analysis of atrial fibrillation. <i>Medical and Biological Engineering and Computing</i> , 2009 , 47, 687-96	3.1	7
71	Non-invasive atrial fibrillation organization follow-up under successive attempts of electrical cardioversion. <i>Medical and Biological Engineering and Computing</i> , 2009 , 47, 1247-55	3.1	7

70	Bioelectric model of atrial fibrillation: applicability of blind source separation techniques for atrial activity estimation in atrial fibrillation episodes 2003 ,		7
69	Ventricular activity morphological characterization: ectopic beats removal in long term atrial fibrillation recordings. <i>Computer Methods and Programs in Biomedicine</i> , 2013 , 109, 283-92	6.9	6
68	Mixing Matrix Pseudostationarity and ECG Preprocessing Impact on ICA-Based Atrial Fibrillation Analysis. <i>Lecture Notes in Computer Science</i> , 2004 , 1079-1086	0.9	6
67	Waveform Integrity in Atrial Fibrillation: The Forgotten Issue of Cardiac Electrophysiology. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1890-1907	4.7	5
66	Comparative assessment of nonlinear metrics to quantify organization-related events in surface electrocardiograms of atrial fibrillation. <i>Computers in Biology and Medicine</i> , 2014 , 48, 66-76	7	5
65	Nonlinear synchronization assessment between atrial and ventricular activations series from the surface ECG in atrial fibrillation. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 1000-1007	4.9	5
64	Application of frequency and sample entropy to discriminate long-term recordings of paroxysmal and persistent atrial fibrillation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4558-61	0.9	5
63	Understanding Atrial Fibrillation: The Signal Processing Contribution, Part I. <i>Synthesis Lectures on Biomedical Engineering</i> , 2008 , 3, 1-129	0.3	5
62	Application of Hurst exponents to assess atrial reverse remodeling in paroxysmal atrial fibrillation. <i>Physiological Measurement</i> , 2015 , 36, 2231-46	2.9	4
61	Short-Time Estimation of Fractionation in Atrial Fibrillation with Coarse-Grained Correlation Dimension for Mapping the Atrial Substrate. <i>Entropy</i> , 2020 , 22,	2.8	4
60	The stationary wavelet transform as an efficient reductor of powerline interference for atrial bipolar electrograms in cardiac electrophysiology. <i>Physiological Measurement</i> , 2019 , 40, 075003	2.9	4
59	Combined Nonlinear Analysis of Atrial and Ventricular Series for Automated Screening of Atrial Fibrillation. <i>Complexity</i> , 2017 , 2017, 1-13	1.6	4
58	The P Wave Time-Frequency Variability Reflects Atrial Conduction Defects before Paroxysmal Atrial Fibrillation. <i>Annals of Noninvasive Electrocardiology</i> , 2015 , 20, 433-45	1.5	4
57	Surface ECG organization time course analysis along onward episodes of paroxysmal atrial fibrillation. <i>Medical Engineering and Physics</i> , 2011 , 33, 597-603	2.4	4
56	Non-Invasive Characterization of Atrial Activity Immediately Prior to Termination of Paroxysmal Atrial Fibrillation. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2008 , 61, 154-160	0.7	4
55	Reconstruction of atrial signals derived from the 12-lead ECG using atrial signal extraction techniques 2003 ,		4
54	An integral atrial wave identification based on spatiotemporal source separation: clinical validation 2003 ,		4
53	Prediction of spontaneous termination of atrial fibrillation using time frequency analysis of the atrial fibrillatory wave		4

52	. <i>IEEE Transactions on Education</i> , 2020 , 63, 144-154	2.1	3
51	Detection and removal of ventricular ectopic beats in atrial fibrillation recordings via principal component analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 1683-4	0.9	3
50	Volume mesh generation and finite element analysis of trabecular bone magnetic resonance images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 1603-6		3
49	Convolutional Acoustic Mixtures Approximation to an Instantaneous Model Using a Stereo Boundary Microphone Configuration. <i>Lecture Notes in Computer Science</i> , 2004 , 816-823	0.9	3
48	Wavelet blind separation: a new methodology for the analysis of atrial fibrillation from Holter recordings		3
47	Multidimensional ICA for the Separation of Atrial and Ventricular Activities from Single Lead ECGs in Paroxysmal Atrial Fibrillation Episodes. <i>Lecture Notes in Computer Science</i> , 2004 , 1229-1236	0.9	3
46	Study on How Catheter Ablation Affects Atrial Structures in Patients with Paroxysmal Atrial Fibrillation: The Case of the Coronary Sinus 2020 ,		3
45	Applications of Nonlinear Methods to Atrial Fibrillation 2017 , 387-426		2
44	Preoperative study of the surface ECG for the prognosis of atrial fibrillation maze surgery outcome at discharge. <i>Physiological Measurement</i> , 2014 , 35, 1409-23	2.9	2
43	Optimized assessment of atrial fibrillation organization through suitable parameters of sample Entropy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 118-21	0.9	2
42	Neural network based canceller for Powerline Interference in ECG signals 2008 ,		2
41	Bidomain Sample Entropy to Predict Termination of Atrial Arrhythmias 2007 ,		2
40	A new adaptive approach to remove baseline wander from ECG recordings using Madeline structure 2007 ,		2
39	Wavelet Denoising as Preprocessing Stage to Improve ICA Performance in Atrial Fibrillation Analysis. <i>Lecture Notes in Computer Science</i> , 2006 , 486-494	0.9	2
38	Comparative analysis in terms of computational cost for different discrimination algorithms in implantable defibrillators		2
37	Wavelet Domain Blind Signal Separation to Analyze Supraventricular Arrhythmias from Holter Registers. <i>Lecture Notes in Computer Science</i> , 2004 , 1111-1117	0.9	2
36	Atrial activity extraction in Holter registers using adaptive wavelet analysis 2003 ,		2
35	Computational cost reduction using coincident boundary microphones for convolutional blind signal separation. <i>Electronics Letters</i> , 2005 , 41, 374	1.1	2

34	Lempel-Ziv Complexity Analysis for the Evaluation of Atrial Fibrillation Organization 2011 ,		2
33	. <i>Journal of Medical and Biological Engineering</i> , 2013 , 33, 455	2.2	2
32	Performance Study of Convolutional BSS Algorithms Applied to the Electrocardiogram of Atrial Fibrillation. <i>Lecture Notes in Computer Science</i> , 2006 , 495-502	0.9	2
31	Splitting the P-Wave: Improved Evaluation of Left Atrial Substrate Modification after Pulmonary Vein Isolation of Paroxysmal Atrial Fibrillation.. <i>Sensors</i> , 2021 , 22,	3.8	2
30	Reference database and performance evaluation of methods for extraction of atrial fibrillatory waves in the ECG. <i>Physiological Measurement</i> , 2019 , 40, 075011	2.9	1
29	2015 ,		1
28	Enhancement of atrial fibrillation electrical cardioversion procedures through the arrhythmia organization estimation from the ECG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 122-5	0.9	1
27	Validation of surface atrial fibrillation organization indicators through invasive recordings. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 5519-22	0.9	1
26	An efficient method for ectopic beats cancellation based on radial basis function. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6947-50	0.9	1
25	Ventricular artifacts cancellation from atrial epicardial recordings in atrial tachyarrhythmias. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6504-7		1
24	ECG signal quantization effects in the analysis of atrial fibrillation 2007 ,		1
23	Neural Networks Based Approach to remove Baseline drift in Biomedical Signals 2007 , 90-93		1
22	Adaptive singular value QRST cancellation for the analysis of short single lead atrial fibrillation electrocardiograms 2007 ,		1
21	Epicardial atrial activation assessment from the surface ECG in atrial fibrillation 2005 ,		1
20	Atrial activity enhancement by blind sparse sequential separation 2005 ,		1
19	Early Prediction of Students at Risk of Failing a Face-to-Face Course in Power Electronic Systems. <i>IEEE Transactions on Learning Technologies</i> , 2021 , 1-1	4	1
18	Multi-scale Entropy Evaluates the Proarrhythmic Condition of Persistent Atrial Fibrillation Patients Predicting Early Failure of Electrical Cardioversion. <i>Entropy</i> , 2020 , 22,	2.8	1
17	Characterization of f Waves. <i>Series in Bioengineering</i> , 2018 , 221-279	0.7	1

16	Derivation of Atrial Surface Reentries Applying ICA to the Standard Electrocardiogram of Patients in Postoperative Atrial Fibrillation. <i>Lecture Notes in Computer Science</i> , 2006 , 478-485	0.9	1
15	The Dissimilar Impact in Atrial Substrate Modification of Left and Right Pulmonary Veins Isolation after Catheter Ablation of Paroxysmal Atrial Fibrillation.. <i>Journal of Personalized Medicine</i> , 2022 , 12,	3.6	1
14	Signal Analysis in Atrial Fibrillation. <i>Series in Bioengineering</i> , 2019 , 331-350	0.7	0
13	Non-linear organization analysis of paroxysmal atrial fibrillation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 1957-60		0
12	Wavelet bidomain regularity analysis to predict spontaneous termination of atrial fibrillation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 1838-41		0
11	Non-Linear Organization Analysis of the Dominant Atrial Frequency to Predict Spontaneous Termination of Atrial Fibrillation 2007 , 94-98		0
10	The Relevance of Calibration in Machine Learning-Based Hypertension Risk Assessment Combining Photoplethysmography and Electrocardiography. <i>Biosensors</i> , 2022 , 12, 289	5.9	0
9	Estudio multicéntrico español para la predicción del riesgo perioperatorio de accidente cerebrovascular tras cirugía de bypass coronario aislada: el modelo PACK2. <i>Cirugía Cardiovascular</i> , 2014 , 21, 175-180	0.1	
8	Noninvasive organization analysis along consecutive episodes of paroxysmal atrial fibrillation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 1467-70	0.9	
7	A new method to determine the frequency response of enclosures using masked tones. <i>Applied Acoustics</i> , 2006 , 67, 297-305	3.1	
6	Clinical software for the assessment of trabecular bone disease in distal radius based on a magnetic resonance structural analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 2073-6		
5	ICA for ovary tissue classification of perfusion magnetic resonance images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 1611-4		
4	A New Auditory-Based Index to Evaluate the Blind Separation Performance of Acoustic Mixtures. <i>Lecture Notes in Computer Science</i> , 2004 , 1118-1125	0.9	
3	Exploiting Spatiotemporal Information for Blind Atrial Activity Extraction in Atrial Arrhythmias. <i>Lecture Notes in Computer Science</i> , 2004 , 18-25	0.9	
2	Análisis del remodelado anatómico-eléctrico auricular para la predicción del éxito de la ablación quirúrgica concomitante de la fibrilación auricular a largo plazo. <i>Cirugía Cardiovascular</i> , 2016 , 23, 125-131	0.1	
1	The Relevance of Heart Rate Fluctuation When Evaluating Atrial Substrate Electrical Features in Catheter Ablation of Paroxysmal Atrial Fibrillation. <i>Journal of Cardiovascular Development and Disease</i> , 2022 , 9, 176	4.2	