

Raul Alcaraz

List of Publications by Year in descending order

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167
papers

2,392
citations

218381

26
h-index

253896

43
g-index

172
all docs

172
docs citations

172
times ranked

1776
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of the phasor transform for automatic delineation of single-lead ECG fiducial points. <i>Physiological Measurement</i> , 2010, 31, 1467-1485.	1.2	176
2	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.	3.5	147
3	A financial hyperchaotic system with coexisting attractors: Dynamic investigation, entropy analysis, control and synchronization. <i>Chaos, Solitons and Fractals</i> , 2019, 126, 66-77.	2.5	124
4	Adaptive singular value cancelation of ventricular activity in single-lead atrial fibrillation electrocardiograms. <i>Physiological Measurement</i> , 2008, 29, 1351-1369.	1.2	113
5	Optimal parameters study for sample entropy-based atrial fibrillation organization analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 99, 124-132.	2.6	88
6	Spectral Entropy Analysis and Synchronization of a Multi-Stable Fractional-Order Chaotic System using a Novel Neural Network-Based Chattering-Free Sliding Mode Technique. <i>Chaos, Solitons and Fractals</i> , 2021, 144, 110576.	2.5	88
7	Entropy Analysis and Neural Network-Based Adaptive Control of a Non-Equilibrium Four-Dimensional Chaotic System with Hidden Attractors. <i>Entropy</i> , 2019, 21, 156.	1.1	83
8	Application of the relative wavelet energy to heart rate independent detection of atrial fibrillation. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 131, 157-168.	2.6	78
9	A Review on Nonlinear Methods Using Electroencephalographic Recordings for Emotion Recognition. <i>IEEE Transactions on Affective Computing</i> , 2021, 12, 801-820.	5.7	69
10	Application of Entropy-Based Metrics to Identify Emotional Distress from Electroencephalographic Recordings. <i>Entropy</i> , 2016, 18, 221.	1.1	56
11	Optimal Control of Time-Delay Fractional Equations via a Joint Application of Radial Basis Functions and Collocation Method. <i>Entropy</i> , 2020, 22, 1213.	1.1	54
12	Wavelet Entropy Automatically Detects Episodes of Atrial Fibrillation from Single-Lead Electrocardiograms. <i>Entropy</i> , 2015, 17, 6179-6199.	1.1	52
13	Classification of Paroxysmal and Persistent Atrial Fibrillation in Ambulatory ECG Recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 1441-1449.	2.5	50
14	Sample entropy of the main atrial wave predicts spontaneous termination of paroxysmal atrial fibrillation. <i>Medical Engineering and Physics</i> , 2009, 31, 917-922.	0.8	47
15	Multiscale Entropy Analysis for Recognition of Visually Elicited Negative Stress From EEG Recordings. <i>International Journal of Neural Systems</i> , 2019, 29, 1850038.	3.2	43
16	Morphological variability of the P-wave for premature envision of paroxysmal atrial fibrillation events. <i>Physiological Measurement</i> , 2014, 35, 1-14.	1.2	42
17	Discrete-time macroeconomic system: Bifurcation analysis and synchronization using fuzzy-based activation feedback control. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110378.	2.5	42
18	Symbolic Analysis of Brain Dynamics Detects Negative Stress. <i>Entropy</i> , 2017, 19, 196.	1.1	39

#	ARTICLE	IF	CITATIONS
19	Synchronization of a Non-Equilibrium Four-Dimensional Chaotic System Using a Disturbance-Observer-Based Adaptive Terminal Sliding Mode Control Method. <i>Entropy</i> , 2020, 22, 271.	1.1	35
20	A non-invasive method to predict electrical cardioversion outcome of persistent atrial fibrillation. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 625-635.	1.6	34
21	Noninvasive Time and Frequency Predictors of Long-Standing Atrial Fibrillation Early Recurrence after Electrical Cardioversion. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2011, 34, 1241-1250.	0.5	34
22	Wavelet bidomain sample entropy analysis to predict spontaneous termination of atrial fibrillation. <i>Physiological Measurement</i> , 2008, 29, 65-80.	1.2	33
23	Antiretroviral therapy of HIV infection using a novel optimal type-2 fuzzy control strategy. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 1545-1555.	3.4	33
24	A novel application of sample entropy to the electrocardiogram of atrial fibrillation. <i>Nonlinear Analysis: Real World Applications</i> , 2010, 11, 1026-1035.	0.9	32
25	Application of Entropy-Based Features to Predict Defibrillation Outcome in Cardiac Arrest. <i>Entropy</i> , 2016, 18, 313.	1.1	32
26	A Multistable Chaotic Jerk System with Coexisting and Hidden Attractors: Dynamical and Complexity Analysis, FPGA-Based Realization, and Chaos Stabilization Using a Robust Controller. <i>Symmetry</i> , 2020, 12, 569.	1.1	29
27	A novel wavelet-based filtering strategy to remove powerline interference from electrocardiograms with atrial fibrillation. <i>Physiological Measurement</i> , 2018, 39, 115006.	1.2	28
28	Non-invasive organization variation assessment in the onset and termination of paroxysmal atrial fibrillation. <i>Computer Methods and Programs in Biomedicine</i> , 2009, 93, 148-154.	2.6	27
29	Study on the P-wave feature time course as early predictors of paroxysmal atrial fibrillation. <i>Physiological Measurement</i> , 2012, 33, 1959-1974.	1.2	27
30	Assessment of non-invasive time and frequency atrial fibrillation organization markers with unipolar atrial electrograms. <i>Physiological Measurement</i> , 2011, 32, 99-114.	1.2	25
31	Electrocardiographic Spectral Features for Long-Term Outcome Prognosis of Atrial Fibrillation Catheter Ablation. <i>Annals of Biomedical Engineering</i> , 2016, 44, 3307-3318.	1.3	23
32	Application of Wavelet Entropy to Predict Atrial Fibrillation Progression from the Surface ECG. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-9.	0.7	22
33	The application of nonlinear metrics to assess organization differences in short recordings of paroxysmal and persistent atrial fibrillation. <i>Physiological Measurement</i> , 2010, 31, 115-130.	1.2	21
34	Multi-Lag Analysis of Symbolic Entropies on EEG Recordings for Distress Recognition. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 40.	1.3	21
35	Time and frequency recurrence analysis of persistent atrial fibrillation after electrical cardioversion. <i>Physiological Measurement</i> , 2009, 30, 479-489.	1.2	20
36	A Deep Learning Approach for Featureless Robust Quality Assessment of Intermittent Atrial Fibrillation Recordings from Portable and Wearable Devices. <i>Entropy</i> , 2020, 22, 733.	1.1	20

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37	Short-time regularity assessment of fibrillatory waves from the surface ECG in atrial fibrillation. <i>Physiological Measurement</i> , 2012, 33, 969-984.	1.2	19
38	A new method for automatic delineation of ECG fiducial points based on the Phasor Transform. , 2010, 2010, 4586-9.		17
39	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, 591.	1.1	16
40	Dynamic time warping applied to estimate atrial fibrillation temporal organization from the surface electrocardiogram. <i>Medical Engineering and Physics</i> , 2013, 35, 1341-1348.	0.8	15
41	Nonlinear predictability analysis of brain dynamics for automatic recognition of negative stress. <i>Neural Computing and Applications</i> , 2020, 32, 13221-13231.	3.2	15
42	Surface ECG organization analysis to predict paroxysmal atrial fibrillation termination. <i>Computers in Biology and Medicine</i> , 2009, 39, 697-706.	3.9	14
43	Central tendency measure and wavelet transform combined in the non-invasive analysis of atrial fibrillation recordings. <i>BioMedical Engineering OnLine</i> , 2012, 11, 46.	1.3	14
44	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, 110-119.	2.6	14
45	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.	1.2	14
46	Alteration of the P-wave non-linear dynamics near the onset of paroxysmal atrial fibrillation. <i>Medical Engineering and Physics</i> , 2015, 37, 692-697.	0.8	13
47	Waveform Integrity in Atrial Fibrillation: The Forgotten Issue of Cardiac Electrophysiology. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1890-1907.	1.3	13
48	Non-invasive atrial fibrillation organization follow-up under successive attempts of electrical cardioversion. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 1247-1255.	1.6	11
49	A Fractionation-based Local Activation Wave Detector for Atrial Electrograms of Atrial Fibrillation. , 0, , .		11
50	Calculation of the DC-bus Capacitors of the Back-to-back NPC Converters. , 2006, , .		10
51	Title is missing!. <i>Journal of Medical and Biological Engineering</i> , 2013, 33, 239.	1.0	10
52	Assessment of dispersion patterns for negative stress detection from electroencephalographic signals. <i>Pattern Recognition</i> , 2021, 119, 108094.	5.1	10
53	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, 1775-1784.	0.9	9
54	Nonlinear Methodologies Applied to Automatic Recognition of Emotions: An EEG Review. <i>Lecture Notes in Computer Science</i> , 2017, , 754-765.	1.0	9

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55	Application of frequency and sample entropy to discriminate long-term recordings of paroxysmal and persistent atrial fibrillation. , 2010, 2010, 4558-61.		8
56	Detection and removal of ventricular ectopic beats in atrial fibrillation recordings via principal component analysis. , 2011, 2011, 4693-6.		8
57	Ventricular activity morphological characterization: Ectopic beats removal in long term atrial fibrillation recordings. Computer Methods and Programs in Biomedicine, 2013, 109, 283-292.	2.6	8
58	Electrocardiographic P-wave Delineation Based on Adaptive Slope Gaussian Detection. , 2017, , .		8
59	Combined Nonlinear Analysis of Atrial and Ventricular Series for Automated Screening of Atrial Fibrillation. Complexity, 2017, 2017, 1-13.	0.9	8
60	Detection of Negative Stress through Spectral Features of Electroencephalographic Recordings and a Convolutional Neural Network. Sensors, 2021, 21, 3050.	2.1	8
61	The Relevance of Calibration in Machine Learning-Based Hypertension Risk Assessment Combining Photoplethysmography and Electrocardiography. Biosensors, 2022, 12, 289.	2.3	8
62	Comparison of Voltage Harmonic Identification Methods for Single-Phase Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	7
63	Non-Invasive Characterization of Atrial Activity Immediately Prior to Termination of Paroxysmal Atrial Fibrillation. Revista Espanola De Cardiologia (English Ed), 2008, 61, 154-160.	0.4	7
64	Nonlinear synchronization assessment between atrial and ventricular activations series from the surface ECG in atrial fibrillation. Biomedical Signal Processing and Control, 2013, 8, 1000-1007.	3.5	7
65	Comparative assessment of nonlinear metrics to quantify organization-related events in surface electrocardiograms of atrial fibrillation. Computers in Biology and Medicine, 2014, 48, 66-76.	3.9	7
66	The P Wave Timeâ€Frequency Variability Reflects Atrial Conduction Defects before Paroxysmal Atrial Fibrillation. Annals of Noninvasive Electrocardiology, 2015, 20, 433-445.	0.5	7
67	Symbolic Entropy Analysis and Its Applications. Entropy, 2018, 20, 568.	1.1	7
68	Blending Inverted Lectures and Laboratory Experiments to Improve Learning in an Introductory Course in Digital Systems. IEEE Transactions on Education, 2020, 63, 144-154.	2.0	7
69	Conditional Entropy Estimates for Distress Detection with EEG Signals. Lecture Notes in Computer Science, 2017, , 193-202.	1.0	7
70	Study of Electroencephalographic Signal Regularity for Automatic Emotion Recognition. Lecture Notes in Computer Science, 2017, , 766-777.	1.0	7
71	Surface ECG organization time course analysis along onward episodes of paroxysmal atrial fibrillation. Medical Engineering and Physics, 2011, 33, 597-603.	0.8	6
72	Application of Hurst exponents to assess atrial reverse remodeling in paroxysmal atrial fibrillation. Physiological Measurement, 2015, 36, 2231-2246.	1.2	6

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73	Study on How Catheter Ablation Affects Atrial Structures in Patients with Paroxysmal Atrial Fibrillation: The Case of the Coronary Sinus. , 2020, , .		6
74	Application of Dispersion Entropy for the Detection of Emotions With Electroencephalographic Signals. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1179-1187.	2.6	6
75	Cross-sample entropy for the study of coordinated brain activity in calm and distress conditions with electroencephalographic recordings. Neural Computing and Applications, 2021, 33, 9343-9352.	3.2	6
76	Adaptive singular value QRST cancellation for the analysis of short single lead atrial fibrillation electrocardiograms. , 2007, , .		5
77	Preoperative study of the surface ECG for the prognosis of atrial fibrillation maze surgery outcome at discharge. Physiological Measurement, 2014, 35, 1409-1423.	1.2	5
78	Characterization of f Waves. Series in Bioengineering, 2018, , 221-279.	0.3	5
79	Short-Time Estimation of Fractionation in Atrial Fibrillation with Coarse-Grained Correlation Dimension for Mapping the Atrial Substrate. Entropy, 2020, 22, 232.	1.1	5
80	Early Prediction of Students at Risk of Failing a Face-to-Face Course in Power Electronic Systems. IEEE Transactions on Learning Technologies, 2021, 14, 590-603.	2.2	5
81	Comparison of Voltage Harmonic Identification Algorithms for Three-Phase Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	4
82	Bidomain Sample Entropy to Predict Termination of Atrial Arrhythmias. , 2007, , .		4
83	Atrial Fibrillation Screening through Combined Timing Features of Short Single-Lead Electrocardiograms. , 2017, , .		4
84	Reference database and performance evaluation of methods for extraction of atrial fibrillatory waves in the ECG. Physiological Measurement, 2019, 40, 075011.	1.2	4
85	An Experimental Review on Obstructive Sleep Apnea Detection Based on Heart Rate Variability and Machine Learning Techniques. , 2020, , .		4
86	Nonlinear Symbolic Assessment of Electroencephalographic Recordings for Negative Stress Recognition. Lecture Notes in Computer Science, 2017, , 203-212.	1.0	3
87	Recent Advances and Challenges in Nonlinear Characterization of Brain Dynamics for Automatic Recognition of Emotional States. Lecture Notes in Computer Science, 2017, , 213-222.	1.0	3
88	Comparison of Pre-Trained Deep Learning Algorithms for Quality Assessment of Electrocardiographic Recordings. , 2020, , .		3
89	ECG Quality Assessment via Deep Learning and Data Augmentation. , 2021, , .		3
90	Wavelet Domain Blind Signal Separation to Analyze Supraventricular Arrhythmias from Holter Registers. Lecture Notes in Computer Science, 2004, , 1111-1117.	1.0	2

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91	Non-Linear Organization Analysis of Paroxysmal Atrial Fibrillation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1957-60.	0.5	2
92	Wavelet Bidomain Regularity Analysis to Predict Spontaneous Termination of Atrial Fibrillation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1838-41.	0.5	2
93	Optimized assessment of atrial fibrillation organization through suitable parameters of Sample Entropy. , 2010, 2010, 118-21.		2
94	Validation of surface atrial fibrillation organization indicators through invasive recordings. , 2011, 2011, 5519-22.		2
95	Non-linear EEG Modelling by Using Quadratic Entropy for Arousal Level Classification. Smart Innovation, Systems and Technologies, 2016, , 3-13.	0.5	2
96	EEG Mapping for Arousal Level Quantification Using Dynamic Quadratic Entropy. Advances in Intelligent Systems and Computing, 2016, , 207-214.	0.5	2
97	Applications of Nonlinear Methods to Atrial Fibrillation. , 2017, , 387-426.		2
98	Signal Analysis in Atrial Fibrillation. Series in Bioengineering, 2019, , 331-350.	0.3	2
99	Thorough Assessment of a P-wave Delineation Algorithm Through the Use of Diverse Electrocardiographic Databases. , 2019, , .		2
100	Lempel-Ziv Complexity Analysis for the Evaluation of Atrial Fibrillation Organization. , 2011, , .		2
101	Calculation of the DC-bus Capacitors of the Back-to-back NPC Converters. , 2006, , .		2
102	Obstructive Sleep Apnea Detection Methods Based on Heart Rate Variability Analysis: Opportunities for a Future Cinc Challenge. , 0, , .		2
103	The Dissimilar Impact in Atrial Substrate Modification of Left and Right Pulmonary Veins Isolation after Catheter Ablation of Paroxysmal Atrial Fibrillation. Journal of Personalized Medicine, 2022, 12, 462.	1.1	2
104	Novel Photoplethysmographic and Electrocardiographic Features for Enhanced Detection of Hypertensive Individuals. , 2021, , .		2
105	Splitting the P-Wave: Improved Evaluation of Left Atrial Substrate Modification after Pulmonary Vein Isolation of Paroxysmal Atrial Fibrillation. Sensors, 2022, 22, 290.	2.1	2
106	An Efficient Hybrid Methodology for Local Activation Waves Detection under Complex Fractionated Atrial Electrograms of Atrial Fibrillation. Sensors, 2022, 22, 5345.	2.1	2
107	Ventricular Artifacts Cancellation from Atrial Epicardial Recordings in Atrial Tachyarrhythmias. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6504-7.	0.5	1
108	Predicting Electrical Cardioversion outcome from surface ECG recordings through Wavelet Sample Entropy. , 2008, , .		1

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109	Optimal beat selection study for QSRT cancellation methods in the ECG of atrial fibrillation. , 2008, , .		1
110	Enhancement of atrial fibrillation electrical cardioversion procedures through the arrhythmia organization estimation from the ECG. , 2010, 2010, 122-5.		1
111	Study on the trustability of phase mapping methods to represent atrial potentials in atrial fibrillation. , 2015, , .		1
112	The Physionet QT Database: Study on the Reliability of P-wave Manual Annotations under Noisy Recordings. , 0, , .		1
113	An Efficient Algorithm Based on Wavelet Transform to Reduce Powerline Noise From Electrocardiograms. , 0, , .		1
114	Multi-scale Entropy Evaluates the Proarrhythmic Condition of Persistent Atrial Fibrillation Patients Predicting Early Failure of Electrical Cardioversion. Entropy, 2020, 22, 748.	1.1	1
115	Application of the Stationary Wavelet Transform to Reduce Power-line Interference in Atrial Electrograms. , 0, , .		1
116	The Contribution of Nonlinear Methods in the Understanding of Atrial Fibrillation. , 0, , .		1
117	Comparative Study of Methods for Atrial Fibrillation Cycle Length Estimation in Fractionated Electrograms. , 0, , .		1
118	Comparative Study of Convolutional Neural Networks for ECG Quality Assessment. , 0, , .		1
119	Application of Deep Learning for Quality Assessment of Atrial Fibrillation ECG Recordings. , 0, , .		1
120	A Deep Learning Solution for Automatized Interpretation of 12-Lead ECGs. , 0, , .		1
121	Improved Discrimination Between Healthy and Hypertensive Individuals Combining Photoplethysmography and Electrocardiography. , 2021, , .		1
122	Robust prediction of atrial fibrillation termination using wavelet bidomain entropy analysis. , 2007, , .		0
123	Non-Linear analysis of the main atrial wave to estimate organization in paroxysmal atrial fibrillation. , 2007, , .		0
124	A new method to assess sinus rhythm maintenance likelihood before electrical cardioversion of persistent atrial fibrillation. , 2007, , .		0
125	Comparison of atrial wave extraction methods from invasive recordings in atrial fibrillation. , 2007, , .		0
126	Organization deterioration assessment from the surface ECG in the onset and termination of paroxysmal atrial fibrillation. , 2007, , .		0

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127	Non-linear Regularity Analysis of Cardiac Atrial Signals. , 2007, , .		0
128	Noninvasive organization analysis along consecutive episodes of paroxysmal atrial fibrillation. , 2011, 2011, 1467-70.		0
129	Recent Advances in the Noninvasive Study of Atrial Conduction Defects Preceding Atrial Fibrillation. , 0, , .		0
130	The lagged central tendency measure applied to assess P-wave duration variability improves paroxysmal atrial fibrillation onset prediction. , 2015, , .		0
131	Surface ECG spectral analysis to predict atrial fibrillation catheter ablation long-term outcome. , 2015, , .		0
132	Spectral Analysis of the ECG to Guide Optimal Endpoint in Catheter Ablation of Atrial Fibrillation. , 0, , .		0
133	Application of Joint Notch Filtering and Wavelet Transform for Enhanced Powerline Interference Removal in Atrial Fibrillation Electrograms. , 2018, , .		0
134	Assisting Electrophysiological Substrate Quantification in Atrial Fibrillation Ablation. , 2019, , .		0
135	Detection of Dominant Reentries in Multichannel Electrograms of Atrial Fibrillation. , 2019, , .		0
136	Detection of Emotions from Electroencephalographic Recordings by Means of a Nonlinear Functional Connectivity Measure. Lecture Notes in Computer Science, 2021, , 242-252.	1.0	0
137	Power System Voltage Harmonic Identification Using Kalman Filter. , 2006, , .		0
138	Lempel-Ziv complexity analysis for the evaluation of atrial fibrillation organization. , 2010, , .		0
139	Relevance of the Atrial Substrate Remodeling during Follow-Up to Predict Preoperatively Atrial Fibrillation Cox-Maze Surgery Outcome. IFMBE Proceedings, 2014, , 1005-1008.	0.2	0
140	Study on Atrial Arrhythmias Optimal Organization Assessment with Generalized Hurst Exponents. IFMBE Proceedings, 2014, , 1013-1016.	0.2	0
141	Paroxysmal Atrial Fibrillation Termination Prognosis through the Application of Generalized Hurst Exponents. IFMBE Proceedings, 2014, , 973-976.	0.2	0
142	Study on the Alternatives to Reduce High-Frequency Noise from Invasive Recordings of Atrial Fibrillation. , 0, , .		0
143	Multilag Extension of Quadratic Sample Entropy for Distress Recognition with EEG Recordings. Advances in Intelligent Systems and Computing, 2019, , 274-281.	0.5	0
144	Study on the Stability of CFAEs to Characterize the Atrial Substrate in Atrial Fibrillation. , 0, , .		0

#	ARTICLE	IF	CITATIONS
145	Predicting Atrial Fibrillation Recurrence After Catheter Ablation Through Time Variability of P-wave Features. , 0, , .		0
146	Discrimination Between CFAEs of Paroxysmal and Persistent Atrial Fibrillation with Simple Classification Models of Reduced Features. , 0, , .		0
147	Multidimensional Characterization of the Atrial Activity to Predict Electrical Cardioversion Outcome of Persistent Atrial Fibrillation. , 0, , .		0
148	Time Variability of Fibrillatory Waves Energy Predicts Long-Term Outcome of Atrial Fibrillation Concomitant Surgical Ablation. , 0, , .		0
149	Refined Multiscale Entropy Predicts Early Failure in Electrical Cardioversion of Atrial Fibrillation. , 0, , .		0
150	Limb Versus Precordial ECG Leads as Improved Predictors of Electrical Cardioversion Outcome in Persistent Atrial Fibrillation. , 0, , .		0
151	Catheter Ablation Outcome Prediction with Advanced Time-Frequency Features of the Fibrillatory Waves from Patients in Persistent Atrial Fibrillation. , 0, , .		0
152	Reliability of Local Activation Waves Features to Characterize Paroxysmal Atrial Fibrillation Substrate During Sinus Rhythm. , 0, , .		0
153	Assessing the Stability of Complex Fractionated Atrial Electrograms for the Characterization of Atrial Substrate in Atrial Fibrillation. , 2020, , .		0
154	Reliable Paroxysmal Atrial Fibrillation Substrate Assessment During Sinus Rhythm Through Optimal Estimation of Local Activation Waves Dynamics. , 2020, , .		0
155	Time Variability of P-wave Features from the Preoperative Electrocardiogram Predicts Recurrence After Catheter Cryoablation of Atrial Fibrillation. , 2020, , .		0
156	Atrial Fibrillation Surgical Ablation Long-term Outcome Prediction Just with One Lead of the Preoperative Surface Electrocardiogram. , 2020, , .		0
157	Multidimensional Fibrillatory Waves Analysis for Improved Electrical Cardioversion Outcome Prediction in Persistent Atrial Fibrillation. , 2020, , .		0
158	Prediction of Early Failure in Electrical Cardioversion of Atrial Fibrillation Using Refined Multiscale Entropy. , 2020, , .		0
159	A Straightforward Methodology to Distinguish Complex Fractionated Atrial Electrograms of Paroxysmal from Persistent Atrial Fibrillation. , 2020, , .		0
160	Deep Learning Detection of Corrupted Segments in Recordings from Wearable Devices to Improve Atrial Fibrillation Screening. , 2020, , .		0
161	Refined Electrical Cardioversion Outcome Prediction with Bipolar Surface Standard Leads for Patients in Persistent Atrial Fibrillation. , 2020, , .		0
162	Novel Time-Frequency Features of the Fibrillatory Waves Improve Catheter Ablation Outcome Prediction of Persistent Atrial Fibrillation. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
163	Linear and Nonlinear Correlations Between Surface and Invasive Atrial Activation Features in Catheter Ablation of Paroxysmal Atrial Fibrillation. , 2021, , .		0
164	Parallel Study on Surface and Invasive Recordings Across Catheter Ablation Steps of Paroxysmal Atrial Fibrillation. , 2021, , .		0
165	Alternative Time-Domain P-wave Analysis for Precise Information on Substrate Alteration After Pulmonary Vein Isolation for Atrial Fibrillation. , 2021, , .		0
166	Are Coronary Sinus Features Reflecting the Effect of Catheter Ablation of Atrial Fibrillation as P-waves Do?. , 2021, , .		0
167	The Relevance of Heart Rate Fluctuation When Evaluating Atrial Substrate Electrical Features in Catheter Ablation of Paroxysmal Atrial Fibrillation. Journal of Cardiovascular Development and Disease, 2022, 9, 176.	0.8	0