

List of Publications by Year in descending order

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90
papers

4,434
citations

159358

30
h-index

106150

65
g-index

91
all docs

91
docs citations

91
times ranked

4135
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term Outcomes of Catheter Ablation of Atrial Fibrillation: A Systematic Review and Meta-analysis. <i>Journal of the American Heart Association</i> , 2013, 2, e004549.	1.6	622
2	Outcomes of long-standing persistent atrial fibrillation ablation: A systematic review. <i>Heart Rhythm</i> , 2010, 7, 835-846.	0.3	438
3	Obesity results in progressive atrial structural and electrical remodeling: Implications for atrial fibrillation. <i>Heart Rhythm</i> , 2013, 10, 90-100.	0.3	314
4	Paroxysmal Lone Atrial Fibrillation Is Associated With an Abnormal Atrial Substrate. <i>Journal of the American College of Cardiology</i> , 2009, 53, 1182-1191.	1.2	307
5	Atrial remodeling in obstructive sleep apnea: Implications for atrial fibrillation. <i>Heart Rhythm</i> , 2012, 9, 321-327.	0.3	280
6	Hypertension and atrial fibrillation: Evidence of progressive atrial remodeling with electrostructural correlate in a conscious chronically instrumented ovine model. <i>Heart Rhythm</i> , 2010, 7, 1282-1290.	0.3	168
7	Reconstruction of Instantaneous Phase of Unipolar Atrial Contact Electrogram Using a Concept of Sinusoidal Recomposition and Hilbert Transform. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 296-302.	2.5	144
8	Electrical remodelling of the left and right atria due to rheumatic mitral stenosis. <i>European Heart Journal</i> , 2008, 29, 2234-2243.	1.0	135
9	Bipolar Electrogram Shannon Entropy at Sites of Rotational Activation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013, 6, 48-57.	2.1	107
10	Identification of Rotors during Human Atrial Fibrillation Using Contact Mapping and Phase Singularity Detection: Technical Considerations. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 310-318.	2.5	100
11	Reverse Remodeling of the Atria After Treatment of Chronic Stretch in Humans. <i>Journal of the American College of Cardiology</i> , 2010, 55, 1217-1226.	1.2	96
12	Left atrial remodeling in patients with atrial septal defects. <i>Heart Rhythm</i> , 2009, 6, 1000-1006.	0.3	90
13	Short-term hypertension is associated with the development of atrial fibrillation substrate: A study in an ovine hypertensive model. <i>Heart Rhythm</i> , 2010, 7, 396-404.	0.3	90
14	Atrial Arrhythmia in Ageing Spontaneously Hypertensive Rats: Unraveling the Substrate in Hypertension and Ageing. <i>PLoS ONE</i> , 2013, 8, e72416.	1.1	81
15	Disruption of cardiac cholinergic neurons enhances susceptibility to ventricular arrhythmias. <i>Nature Communications</i> , 2017, 8, 14155.	5.8	77
16	Image integration using NavX fusion: Initial experience and validation. <i>Heart Rhythm</i> , 2008, 5, 526-535.	0.3	76
17	High-Density Mapping of Atrial Fibrillation in Humans: Relationship Between High-Frequency Activation and Electrogram Fractionation. <i>Journal of Cardiovascular Electrophysiology</i> , 2008, 19, 1245-1253.	0.8	71
18	Myocardial Infarction and Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013, 6, 738-745.	2.1	70

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19	The Effect of Electrogram Duration on Quantification of Complex Fractionated Atrial Electrograms and Dominant Frequency. <i>Journal of Cardiovascular Electrophysiology</i> , 2008, 19, 252-258.	0.8	66
20	Cardiac glial cells release neurotrophic S100B upon catheter-based treatment of atrial fibrillation. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	57
21	High-Density Mapping of Ventricular Scar. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014, 7, 90-98.	2.1	56
22	Characterization, Mapping, and Ablation of Complex Atrial Tachycardia: Initial Experience With a Novel Method of Ultra High-Density 3D Mapping. <i>Journal of Cardiovascular Electrophysiology</i> , 2016, 27, 1139-1150.	0.8	54
23	Indices of bipolar complex fractionated atrial electrograms correlate poorly with each other and atrial fibrillation substrate complexity. <i>Heart Rhythm</i> , 2015, 12, 1415-1423.	0.3	52
24	Rotors Detected by Phase Analysis of Filtered, Epicardial Atrial Fibrillation Electrograms Colocalize With Regions of Conduction Block. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005858.	2.1	51
25	Nonlinear oscillator model reproducing various phenomena in the dynamics of the conduction system of the heart. <i>Chaos</i> , 2007, 17, 015121.	1.0	50
26	Atrial Fibrillation Complexity Parameters Derived From Surface ECGs Predict Procedural Outcome and Long-Term Follow-Up of Stepwise Catheter Ablation for Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, e003354.	2.1	44
27	High-Density Mapping of the Sinus Node in Humans: Role of Preferential Pathways and the Effect of Remodeling. <i>Journal of Cardiovascular Electrophysiology</i> , 2010, 21, 532-539.	0.8	38
28	Cardiovascular magnetic resonance of total and atrial pericardial adipose tissue: a validation study and development of a 3 dimensional pericardial adipose tissue model. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 73.	1.6	37
29	Renewal Theory as a Universal Quantitative Framework to Characterize Phase Singularity Regeneration in Mammalian Cardiac Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007569.	2.1	35
30	Direction-dependent conduction in lone atrial fibrillation. <i>Heart Rhythm</i> , 2010, 7, 1192-1199.	0.3	34
31	Atrial Remodeling in an Ovine Model of Anthracycline-Induced Nonischemic Cardiomyopathy: Remodeling of the Same Sort. <i>Journal of Cardiovascular Electrophysiology</i> , 2010, 22, no-no.	0.8	32
32	Loss of Pace Capture on the Ablation Line During Pulmonary Vein Isolation versus "Dormant Conduction" Is Adenosine Expendable?. <i>Journal of Cardiovascular Electrophysiology</i> , 2015, 26, 1075-1080.	0.8	30
33	Substrate characterization and catheter ablation in patients with scar-related ventricular tachycardia using ultra high-density 3D mapping. <i>Journal of Cardiovascular Electrophysiology</i> , 2017, 28, 1058-1067.	0.8	29
34	Frequency mapping: Hype or hope?. <i>Heart Rhythm</i> , 2009, 6, 41-43.	0.3	28
35	Atrial protective effects of n-3 polyunsaturated fatty acids: A long-term study in ovine chronic heart failure. <i>Heart Rhythm</i> , 2011, 8, 575-582.	0.3	27
36	Characterization of Atrial Remodeling Studied Remote from Episodes of Typical Atrial Flutter. <i>American Journal of Cardiology</i> , 2010, 106, 528-534.	0.7	23

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37	Information Theory and Atrial Fibrillation (AF): A Review. <i>Frontiers in Physiology</i> , 2018, 9, 957.	1.3	23
38	How disruption of endo-epicardial electrical connections enhances endo-epicardial conduction during atrial fibrillation. <i>Europace</i> , 2017, 19, euv445.	0.7	21
39	Direction-dependent conduction abnormalities in the chronically stretched atria. <i>Europace</i> , 2012, 14, 954-961.	0.7	20
40	Absence of rotational activity detected using 2-dimensional phase mapping in the corresponding 3-dimensional phase maps in human persistent atrial fibrillation. <i>Heart Rhythm</i> , 2018, 15, 182-192.	0.3	20
41	Reduction of Radiation Exposure in Atrial Fibrillation Ablation Using a New Image Integration Module: A Prospective Randomized Trial in Patients Undergoing Pulmonary Vein Isolation. <i>Journal of Cardiovascular Electrophysiology</i> , 2015, 26, 747-753.	0.8	18
42	High-Density Mapping and Ablation of Primary Nonfocal Left Atrial Tachycardia. <i>JACC: Clinical Electrophysiology</i> , 2019, 5, 417-426.	1.3	17
43	The reconstruction, from a set of points, and analysis of the interior surface of the heart chamber. <i>Physiological Measurement</i> , 2004, 25, 617-627.	1.2	16
44	Transient Rotor Activity During Prolonged 3-Dimensional Phase Mapping in Human Persistent Atrial Fibrillation. <i>JACC: Clinical Electrophysiology</i> , 2018, 4, 72-83.	1.3	15
45	Reentry wave formation in excitable media with stochastically generated inhomogeneities. <i>Chaos</i> , 2005, 15, 033301.	1.0	14
46	High-density mapping of atrial fibrillation in a chronic substrate: Evidence for distinct modes of repetitive wavefront propagation. <i>International Journal of Cardiology</i> , 2015, 199, 407-414.	0.8	14
47	M/M/Infinity Birth-Death Processes – A Quantitative Representational Framework to Summarize and Explain Phase Singularity and Wavelet Dynamics in Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2020, 11, 616866.	1.3	14
48	Clinical Validation and Comparison of Alternative Methods for Evaluation of Entrainment Mapping. <i>Journal of Cardiovascular Electrophysiology</i> , 2009, 20, 741-748.	0.8	13
49	Characteristics of ectopic triggers associated with paroxysmal and persistent atrial fibrillation: Evidence for a changing role. <i>Heart Rhythm</i> , 2012, 9, 1367-1374.	0.3	13
50	Development of Time- and Voltage-Domain Mapping (V-T-Mapping) to Localize Ventricular Tachycardia Channels During Sinus Rhythm. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, .	2.1	13
51	Spatial and temporal variability of rotational, focal, and irregular activity: Practical implications for mapping of atrial fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2021, 32, 2393-2403.	0.8	13
52	Origin and Characteristics of High Shannon Entropy at the Pivot of Locally Stable Rotors: Insights from Computational Simulation. <i>PLoS ONE</i> , 2014, 9, e110662.	1.1	12
53	Sympathetic and Parasympathetic Coactivation Induces Perturbed Heart Rate Dynamics in Patients with Paroxysmal Atrial Fibrillation. <i>Medical Science Monitor</i> , 2018, 24, 2164-2172.	0.5	12
54	Development of nonfibrotic left ventricular hypertrophy in an ANG II-induced chronic ovine hypertension model. <i>Physiological Reports</i> , 2016, 4, e12897.	0.7	10

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55	Local Electrical Dyssynchrony during Atrial Fibrillation: Theoretical Considerations and Initial Catheter Ablation Results. PLoS ONE, 2016, 11, e0164236.	1.1	9
56	Contact force facilitates the achievement of an unexcitable ablation line during pulmonary vein isolation. Clinical Research in Cardiology, 2018, 107, 632-641.	1.5	9
57	Electrophysiologic features of protected channels in late postinfarction patients with and without spontaneous ventricular tachycardia. Journal of Interventional Cardiac Electrophysiology, 2018, 51, 13-24.	0.6	9
58	Electrophysiological and Structural Remodeling of the Atria in a Mouse Model of Troponin-I Mutation Linked Hypertrophic Cardiomyopathy: Implications for Atrial Fibrillation. International Journal of Molecular Sciences, 2021, 22, 6941.	1.8	9
59	Spiral wave breakup in excitable media with an inhomogeneity of conduction anisotropy. Computers in Biology and Medicine, 2010, 40, 775-780.	3.9	8
60	A novel algorithm for 3-D visualization of electrogram duration for substrate-mapping in patients with ischemic heart disease and ventricular tachycardia. PLoS ONE, 2021, 16, e0254683.	1.1	8
61	Catheter Ablation Targeting Complex Fractionated Atrial Electrogram in Atrial Fibrillation. Journal of Atrial Fibrillation, 2013, 6, 907.	0.5	8
62	Attraction and repulsion of spiral waves by inhomogeneity of conduction anisotropy—a model of spiral wave interaction with electrical remodeling of heart tissue. Journal of Biological Physics, 2013, 39, 67-80.	0.7	6
63	Spatiotemporal characteristics of atrial fibrillation electrograms: A novel marker for arrhythmia stability and termination. Journal of Arrhythmia, 2017, 33, 40-48.	0.5	6
64	Temporal stability and specificity of high bipolar electrogram entropy regions in sustained atrial fibrillation: Implications for mapping. Journal of Electrocardiology, 2019, 53, 18-27.	0.4	6
65	Quantitative description of the 3D regional mechanics of the left atrium using cardiac magnetic resonance imaging. Physiological Measurement, 2014, 35, 763-775.	1.2	5
66	Far-field effect in unipolar electrograms revisited: High-density mapping of atrial fibrillation in humans. , 2015, 2015, 5680-3.		5
67	Editorial: Recent Advances in Understanding the Basic Mechanisms of Atrial Fibrillation Using Novel Computational Approaches. Frontiers in Physiology, 2019, 10, 1065.	1.3	5
68	Respiratory sinus arrhythmia is reduced after pulmonary vein isolation in patients with paroxysmal atrial fibrillation. Archives of Medical Science, 2020, 16, 1022-1030.	0.4	5
69	Mismatch Between Cardiac Perfusion, Sympathetic Innervation, and Left Ventricular Electroanatomical Map in a Patient with Recurrent Ventricular Tachycardia. American Journal of Case Reports, 2016, 17, 280-282.	0.3	5
70	Integration of the data from electroanatomical mapping system and CT imaging modality. International Journal of Cardiovascular Imaging, 2009, 25, 425-432.	0.7	4
71	Feasibility of high-density electrophysiological study using multiple-electrode array in isolated small animal atria. Clinical and Experimental Pharmacology and Physiology, 2010, 37, 1023-1027.	0.9	4
72	Slowed atrial and atrioventricular conduction and depressed <sc>HRV</sc> in a murine model of hypertrophic cardiomyopathy. Clinical and Experimental Pharmacology and Physiology, 2016, 43, 95-101.	0.9	4

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73	Impact of Intracardiac Neurons on Cardiac Electrophysiology and Arrhythmogenesis in an <i>Ex Vivo</i> Langendorff System. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	4
74	Motion Estimation of Vortical Blood Flow Within the Right Atrium in a Patient with Atrial Septal Defect. , 2007, , .		3
75	Role of spiral wave pinning in inhomogeneous active media in the termination of atrial fibrillation by electrical cardioversion. <i>Computers in Biology and Medicine</i> , 2010, 40, 363-372.	3.9	3
76	Quantitative description of the regional mechanics of the left atria by electroanatomical mapping. <i>Physiological Measurement</i> , 2010, 31, 555-564.	1.2	3
77	Application of phase coherence in assessment of spatial alignment of electrodes during simultaneous endocardial-epicardial direct contact mapping of atrial fibrillation. <i>Europace</i> , 2014, 16, iv135-iv140.	0.7	3
78	Spatial concentration and distribution of phase singularities in human atrial fibrillation: Insights for the AF mechanism. <i>Journal of Arrhythmia</i> , 2021, 37, 922-930.	0.5	3
79	Concealed conduction effects in the atrium. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2009, 28, 24-29.	1.1	2
80	Simultaneous conduction mapping and intracellular membrane potential recording in isolated atria. <i>Canadian Journal of Physiology and Pharmacology</i> , 2016, 94, 563-569.	0.7	2
81	Bi-atrial high-density mapping reveals inhibition of wavefront turning and reduction of complex propagation patterns as main antiarrhythmic mechanisms of vernakalant. <i>Europace</i> , 2021, 23, 1114-1123.	0.7	2
82	Impact of Adenosine on Wavefront Propagation in Persistent Atrial Fibrillation: Insights From Global Noncontact Charge Density Mapping of the Left Atrium. <i>Journal of the American Heart Association</i> , 2022, 11, .	1.6	2
83	Blood flow assessment in a heart with septal defect based on optical flow analysis of magnetic resonance images. , 2006, , .		1
84	Complex activity patterns in arterial wall: Results from a model of calcium dynamics. <i>Computers in Biology and Medicine</i> , 2012, 42, 267-275.	3.9	1
85	Causality in Atrial Fibrillation determined by transfer entropy. , 2015, , .		1
86	Kolmogorov Complexity of Coronary Sinus Atrial Electrograms before Ablation Predicts Termination of Atrial Fibrillation after Pulmonary Vein Isolation. <i>Entropy</i> , 2019, 21, 970.	1.1	1
87	Differential pacing from two sites to diagnose risk of ventricular arrhythmia and death. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2019, 42, 189-200.	0.5	1
88	Far-field effect in unipolar electrograms recorded from epicardial and endocardial surface: Quantification of epi-endo dissociation during atrial Fibrillation in Humans. , 2015, , .		0
89	Towards application of complexity measures of atrial electrograms to predict outcome of the ablation procedure. , 2015, , .		0
90	Analysis of Panoramic Propagation Patterns Mapped from Patients With Persistent Atrial Fibrillation. , 0, , .		0