Jose Jalife

List of Publications by Year
in descending order

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322 papers	33,515 citations	4383 86 h-index	4112 175 g-index
343 all docs	343 docs citations	343 times ranked	18214 citing authors

#	Article	IF	Citations
1	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation. Heart Rhythm, 2017, 14, e275-e444.	0.3	1,671
2	2012 HRS/EHRA/ECAS Expert Consensus Statement on Catheter and Surgical Ablation of Atrial Fibrillation: Recommendations for Patient Selection, Procedural Techniques, Patient Management and Follow-up, Definitions, Endpoints, and Research Trial Design. Heart Rhythm, 2012, 9, 632-696.e21.	0.3	1,541
3	2011 ACCF/AHA/HRS Focused Updates Incorporated into the ACC/AHA/ESC 2006 Guidelines for the Management of Patients With Atrial Fibrillation: Recommendations for Patient Selection, Procedural Techniques, Patient Management and Follow-up, Definitions, Endpoints, and Research Trial Design: A report of the Heart Rhythm Society (HRS) Task Force on Catheter and Surgical Ablation of Atrial Fibrillation. Developed in partnership with the European Heart Rhythm Association (EHRA), a registered branch of the European Society of	0.7	1,497
4	2012 HRS/EHRA/ECAS expert consensus statement on catheter and surgical ablation of atrial fibrillation: recommendations for patient selection, procedural techniques, patient management and follow-up, definitions, endpoints, and research trial design. Journal of Interventional Cardiac Electrophysiology, 2012, 33, 171-257.	0.6	1,167
5	Stationary and drifting spiral waves of excitation in isolated cardiac muscle. Nature, 1992, 355, 349-351.	13.7	1,165
6	Spatial and temporal organization during cardiac fibrillation. Nature, 1998, 392, 75-78.	13.7	904
7	Spectral Analysis Identifies Sites of High-Frequency Activity Maintaining Atrial Fibrillation in Humans. Circulation, 2005, 112, 789-797.	1.6	785
8	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation. Europace, 2018, 20, e1-e160.	0.7	767
9	Stable Microreentrant Sources as a Mechanism of Atrial Fibrillation in the Isolated Sheep Heart. Circulation, 2000, 101, 194-199.	1.6	710
10	A Novel Form of Short QT Syndrome (SQT3) Is Caused by a Mutation in the KCNJ2 Gene. Circulation Research, 2005, 96, 800-807.	2.0	575
11	Biobank-driven genomic discovery yields new insight into atrial fibrillation biology. Nature Genetics, 2018, 50, 1234-1239.	9.4	547
12	Mother rotors and fibrillatory conduction: a mechanism of atrial fibrillation. Cardiovascular Research, 2002, 54, 204-216.	1.8	522
13	EHRA/HRS/APHRS/SOLAECE expert consensus on atrial cardiomyopathies: definition, characterization, and clinical implication. Europace, 2016, 18, 1455-1490.	0.7	471
14	Spatiotemporal Periodicity During Atrial Fibrillation in the Isolated Sheep Heart. Circulation, 1998, 98, 1236-1248.	1.6	459
15	Prevention of Atrial Fibrillation. Circulation, 2009, 119, 606-618.	1.6	446
16	EHRA/HRS/APHRS/SOLAECE expert consensus on atrial cardiomyopathies: Definition, characterization, and clinical implication. Heart Rhythm, 2017, 14, e3-e40.	0.3	442
17	Extracellular Matrix Promotes Highly Efficient Cardiac Differentiation of Human Pluripotent Stem Cells. Circulation Research, 2012, 111, 1125-1136.	2.0	416
18	Mechanisms of Cardiac Fibrillation. Science, 1995, 270, 1222-1222.	6.0	408

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19	Mechanisms of Wave Fractionation at Boundaries of High-Frequency Excitation in the Posterior Left Atrium of the Isolated Sheep Heart During Atrial Fibrillation. Circulation, 2006, 113, 626-633.	1.6	386
20	2017â€‰HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation: Executive summary. Europace, 2018, 20, 157-208.	0.7	375
21	Human Atrial Action Potential and Ca ²⁺ Model. Circulation Research, 2011, 109, 1055-1066.	2.0	368
22	Rotors and the Dynamics of Cardiac Fibrillation. Circulation Research, 2013, 112, 849-862.	2.0	358
23	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation: Executive summary. Journal of Arrhythmia, 2017, 33, 369-409.	0.5	348
24	Left-to-Right Gradient of Atrial Frequencies During Acute Atrial Fibrillation in the Isolated Sheep Heart. Circulation, 2001, 103, 2631-2636.	1.6	343
25	Ventricular Fibrillation: Mechanisms of Initiation and Maintenance. Annual Review of Physiology, 2000, 62, 25-50.	5.6	326
26	Real-time dominant frequency mapping and ablation of dominant frequency sites in atrial fibrillation with left-to-right frequency gradients predicts long-term maintenance of sinus rhythm. Heart Rhythm, 2009, 6, 33-40.	0.3	319
27	Intra-Atrial Pressure Increases Rate and Organization of Waves Emanating From the Superior Pulmonary Veins During Atrial Fibrillation. Circulation, 2003, 108, 668-671.	1.6	311
28	Spatial Distribution of Fibrosis Governs Fibrillation Wave Dynamics in the Posterior Left Atrium During Heart Failure. Circulation Research, 2007, 101, 839-847.	2.0	297
29	Rectification of the Background Potassium Current. Circulation Research, 2001, 89, 1216-1223.	2.0	289
30	Purkinje-Muscle Reentry as a Mechanism of Polymorphic Ventricular Arrhythmias in a 3-Dimensional Model of the Ventricles. Circulation Research, 1998, 82, 1063-1077.	2.0	287
31	Optical Imaging of Voltage and Calcium in Cardiac Cells & Tissues. Circulation Research, 2012, 110, 609-623.	2.0	260
32	Arrhythmogenic Mechanisms in a Mouse Model of Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation Research, 2007, 101, 1039-1048.	2.0	252
33	Activation of Inward Rectifier Potassium Channels Accelerates Atrial Fibrillation in Humans. Circulation, 2006, 114, 2434-2442.	1.6	249
34	Characterization of Conduction in the Ventricles of Normal and Heterozygous Cx43 Knockout Mice Using Optical Mapping. Journal of Cardiovascular Electrophysiology, 1999, 10, 1361-1375.	0.8	239
35	Rotors and Spiral Waves in Atrial Fibrillation. Journal of Cardiovascular Electrophysiology, 2003, 14, 776-780.	0.8	232
36	Ionic Determinants of Functional Reentry in a 2-D Model of Human Atrial Cells During Simulated Chronic Atrial Fibrillation. Biophysical Journal, 2005, 88, 3806-3821.	0.2	232

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37	Distribution of Excitation Frequencies on the Epicardial and Endocardial Surfaces of Fibrillating Ventricular Wall of the Sheep Heart. Circulation Research, 2000, 86, 408-417.	2.0	231
38	The inward rectifier current (IK1) controls cardiac excitability and is involved in arrhythmogenesis. Heart Rhythm, 2005, 2, 316-324.	0.3	230
39	Low dimensional chaos in cardiac tissue. Nature, 1990, 343, 653-657.	13.7	225
40	Atrial remodeling, fibrosis, and atrial fibrillation. Trends in Cardiovascular Medicine, 2015, 25, 475-484.	2.3	218
41	Electrotonic Myofibroblast-to-Myocyte Coupling Increases Propensity to Reentrant Arrhythmias in Two-Dimensional Cardiac Monolayers. Biophysical Journal, 2008, 95, 4469-4480.	0.2	210
42	Extracellular Matrixâ€“Mediated Maturation of Human Pluripotent Stem Cellâ€“Derived Cardiac Monolayer Structure and Electrophysiological Function. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e003638.	2.1	206
43	Atrial fibrillation is associated with the fibrotic remodelling of adipose tissue in the subepicardium of human and sheep atria. European Heart Journal, 2017, 38, 53-61.	1.0	198
44	Comparison of Radiofrequency CatheterÂAblation of Drivers and Circumferential Pulmonary Vein IsolationÂin Atrial Fibrillation. Journal of the American College of Cardiology, 2014, 64, 2455-2467.	1.2	197
45	Visualizing Excitation Waves inside Cardiac Muscle Using Transillumination. Biophysical Journal, 2001, 80, 516-530.	0.2	194
46	Simultaneous Voltage and Calcium Mapping of Genetically Purified Human Induced Pluripotent Stem Cellâ€“Derived Cardiac Myocyte Monolayers. Circulation Research, 2012, 110, 1556-1563.	2.0	187
47	Cardiac fibrillation: From ion channels to rotors in the human heart. Heart Rhythm, 2008, 5, 872-879.	0.3	186
48	Phase resetting and annihilation of pacemaker activity in cardiac tissue. Science, 1979, 206, 695-697.	6.0	185
49	Dynamic reciprocity of sodium and potassium channel expression in a macromolecular complex controls cardiac excitability and arrhythmia. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2134-43.	3.3	182
50	Frequency-Dependent Breakdown of Wave Propagation Into Fibrillatory Conduction Across the Pectinate Muscle Network in the Isolated Sheep Right Atrium. Circulation Research, 2002, 90, 1173-1180.	2.0	181
51	High-Frequency Periodic Sources Underlie Ventricular Fibrillation in the Isolated Rabbit Heart. Circulation Research, 2000, 86, 86-93.	2.0	168
52	A biologic model of parasystole. American Journal of Cardiology, 1979, 43, 761-772.	0.7	167
53	Spatially Distributed Dominant Excitation Frequencies Reveal Hidden Organization in Atrial Fibrillation in the Langendorff-Perfused Sheep Heart. Journal of Cardiovascular Electrophysiology, 2000, 11, 869-879.	0.8	167
54	Cholinergic atrial fibrillation: IK,ACh gradients determine unequal left/right atrial frequencies and rotor dynamics. Cardiovascular Research, 2003, 59, 863-873.	1.8	167

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55	Non-linear dynamics of cardiac excitation and impulse propagation. Nature, 1987, 330, 749-752.	13.7	163
56	Dominant Frequency Increase Rate Predicts Transition from Paroxysmal to Long-Term Persistent Atrial Fibrillation. Circulation, 2014, 129, 1472-1482.	1.6	144
57	Sustained vortex-like waves in normal isolated ventricular muscle.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 8785-8789.	3.3	141
58	Optical Mapping of Drug-Induced Polymorphic Arrhythmias and Torsade de Pointes in the Isolated Rabbit Heart. Journal of the American College of Cardiology, 1997, 29, 831-842.	1.2	141
59	Blockade of the Inward Rectifying Potassium Current Terminates Ventricular Fibrillation in the Guinea Pig Heart. Journal of Cardiovascular Electrophysiology, 2003, 14, 621-631.	0.8	138
60	Up-regulation of the inward rectifier K+current (IK1) in the mouse heart accelerates and stabilizes rotors. Journal of Physiology, 2007, 578, 315-326.	1.3	137
61	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation: Executive summary. Heart Rhythm, 2017, 14, e445-e494.	0.3	135
62	Atrial Myopathy. JACC Basic To Translational Science, 2019, 4, 640-654.	1.9	134
63	Spiral Waves in Two-Dimensional Models of Ventricular Muscle: Formation of a Stationary Core. Biophysical Journal, 1998, 75, 1-14.	0.2	133
64	KCNJ2 mutation in short QT syndrome 3 results in atrial fibrillation and ventricular proarrhythmia. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4291-4296.	3.3	130
65	Null Mutation of Connexin43 Causes Slow Propagation of Ventricular Activation in the Late Stages of Mouse Embryonic Development. Circulation Research, 2001, 88, 1196-1202.	2.0	129
66	Dynamics of wavelets and their role in atrial fibrillation in the isolated sheep heart. Cardiovascular Research, 2000, 48, 220-232.	1.8	128
67	Mechanisms of Atrial Fibrillation Termination by Pure Sodium Channel Blockade in an Ionically-Realistic Mathematical Model. Circulation Research, 2005, 96, e35-47.	2.0	126
68	Functional cardiac fibroblasts derived from human pluripotent stem cells via second heart field progenitors. Nature Communications, 2019, 10, 2238.	5.8	125
69	Self-organization and the dynamical nature of ventricular fibrillation. Chaos, 1998, 8, 79-93.	1.0	121
70	Noninvasive Localization of Maximal Frequency Sites of Atrial Fibrillation by Body Surface Potential Mapping. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 294-301.	2.1	120
71	Role of Conduction Velocity Restitution and Short-Term Memory in the Development of Action Potential Duration Alternans in Isolated Rabbit Hearts. Circulation, 2008, 118, 17-25.	1.6	118
72	Ion Channel Macromolecular Complexes in Cardiomyocytes: Roles in Sudden Cardiac Death. Circulation Research, 2015, 116, 1971-1988.	2.0	116

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73	Immunohistochemical characterization of the intrinsic cardiac neural plexus in whole-mount mouse heart preparations. Heart Rhythm, 2011, 8, 731-738.	0.3	115
74	Deja vu in the theories of atrial fibrillation dynamics. Cardiovascular Research, 2011, 89, 766-775.	1.8	114
75	Conditional lineage ablation to model human diseases. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 11371-11376.	3.3	112
76	Loss of H3K4 methylation destabilizes gene expression patterns and physiological functions in adult murine cardiomyocytes. Journal of Clinical Investigation, 2011, 121, 2641-2650.	3.9	111
77	Optical mapping of Langendorff-perfused human hearts: establishing a model for the study of ventricular fibrillation in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H875-H880.	1.5	109
78	Wavebreak Formation During Ventricular Fibrillation in the Isolated, Regionally Ischemic Pig Heart. Circulation Research, 2003, 92, 546-553.	2.0	107
79	Use of Human Induced Pluripotent Stem Cellâ€“Derived Cardiomyocytes in Preclinical Cancer Drug Cardiotoxicity Testing: A Scientific Statement From the American Heart Association. Circulation Research, 2019, 125, e75-e92.	2.0	103
80	From Mouse to Whale. Circulation, 2004, 110, 2802-2808.	1.6	100
81	Galectin-3 Regulates Atrial Fibrillation Remodeling and Predicts Catheter Ablation Outcomes. JACC Basic To Translational Science, 2016, 1, 143-154.	1.9	99
82	Role of extracellular histones in the cardiomyopathy of sepsis. FASEB Journal, 2015, 29, 2185-2193.	0.2	98
83	Dynamics of rotating vortices in the Beeler-Reuter model of cardiac tissue. Chaos, Solitons and Fractals, 1995, 5, 513-526.	2.5	97
84	Mechanisms underlying ventricular tachycardia and its transition to ventricular fibrillation in the structurally normal heart. Cardiovascular Research, 2001, 50, 242-250.	1.8	96
85	Myosin light chain 2-based selection of human iPSC-derived early ventricular cardiac myocytes. Stem Cell Research, 2013, 11, 1335-1347.	0.3	95
86	Synthesis of Voltage-Sensitive Fluorescence Signals from Three-Dimensional Myocardial Activation Patterns. Biophysical Journal, 2003, 85, 2673-2683.	0.2	92
87	EHRA/HRS/APHRS/SOLAECE expert consensus on Atrial cardiomyopathies: Definition, characterisation, and clinical implication. Journal of Arrhythmia, 2016, 32, 247-278.	0.5	92
88	Left versus right atrial difference in dominant frequency, K+ channel transcripts, and fibrosis in patients developing atrial fibrillation after cardiac surgery. Heart Rhythm, 2009, 6, 1415-1422.	0.3	91
89	Altered Right Atrial Excitation and Propagation in Connexin40 Knockout Mice. Circulation, 2005, 112, 2245-2253.	1.6	89
90	Arrhythmogenesis in a catecholaminergic polymorphic ventricular tachycardia mutation that depresses ryanodine receptor function. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1669-77.	3.3	88

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91	Minimal principle for rotor filaments. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8015-8018.	3.3	87
92	Atrial Septopulmonary Bundle of the Posterior Left Atrium Provides a Substrate for Atrial Fibrillation Initiation in a Model of Vagally Mediated Pulmonary Vein Tachycardia of the Structurally Normal Heart. Circulation: Arrhythmia and Electrophysiology, 2008, 1, 175-183.	2.1	87
93	A computational model of induced pluripotent stemâ€cell derived cardiomyocytes incorporating experimental variability from multiple data sources. Journal of Physiology, 2019, 597, 4533-4564.	1.3	87
94	Genome-wide Study of Atrial Fibrillation Identifies Seven Risk Loci and Highlights Biological Pathways and Regulatory Elements Involved in Cardiac Development. American Journal of Human Genetics, 2018, 102, 103-115.	2.6	86
95	Nerve Supply of the Human Pulmonary Veins: An Anatomical Study. Heart Rhythm, 2009, 6, 221-228.	0.3	84
96	The Case for Modulated Parasystole. PACE - Pacing and Clinical Electrophysiology, 1982, 5, 911-926.	0.5	83
97	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation: executive summary. Journal of Interventional Cardiac Electrophysiology, 2017, 50, 1-55.	0.6	83
98	Cardiac Kir2.1 and Na _V 1.5 Channels Traffic Together to the Sarcolemma to Control Excitability. Circulation Research, 2018, 122, 1501-1516.	2.0	83
99	Effects of diacetyl monoxime on the electrical properties of sheep and guinea pig ventricular muscle. Cardiovascular Research, 1993, 27, 1991-1997.	1.8	81
100	Venice Chart International Consensus Document on Atrial Fibrillation Ablation: 2011 Update. Journal of Cardiovascular Electrophysiology, 2012, 23, 890-923.	0.8	79
101	Ventricular fibrillation and atrial fibrillation are two different beasts. Chaos, 1998, 8, 65-78.	1.0	78
102	Nav1.5 N-terminal domain binding to Î±1-syntrophin increases membrane density of human Kir2.1, Kir2.2 and Nav1.5 channels. Cardiovascular Research, 2016, 110, 279-290.	1.8	77
103	Connexins and Impulse Propagation in the Mouse Heart. Journal of Cardiovascular Electrophysiology, 1999, 10, 1649-1663.	0.8	76
104	Purkinje cell calcium dysregulation is the cellular mechanism that underlies catecholaminergic polymorphic ventricular tachycardia. Heart Rhythm, 2010, 7, 1122-1128.	0.3	75
105	Minimum Information about a Cardiac Electrophysiology Experiment (MICEE): Standardised reporting for model reproducibility, interoperability, and data sharing. Progress in Biophysics and Molecular Biology, 2011, 107, 4-10.	1.4	75
106	Elevated Pre-Operative Serum Peptides for Collagen I and III Synthesis Result in Post-Surgical Atrial Fibrillation. Journal of the American College of Cardiology, 2012, 60, 1799-1806.	1.2	74
107	SPIRAL WAVES AND THE HEART. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 415-435.	0.7	71
108	Mechanisms of persistent atrial fibrillation. Current Opinion in Cardiology, 2014, 29, 20-27.	0.8	70

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109	Paroxysmal atrioventricular block: Are phase 3 and phase 4 block mechanisms or misnomers?. Heart Rhythm, 2009, 6, 1514-1521.	0.3	68
110	Mechanisms and Drug Development in Atrial Fibrillation. Pharmacological Reviews, 2018, 70, 505-525.	7.1	67
111	Drifting vortices of electrical waves underlie ventricular fibrillation in the rabbit heart. Acta Physiologica Scandinavica, 1996, 157, 123-132.	2.3	66
112	A Fungal Metabolite That Eliminates Motion Artifacts. Journal of Cardiovascular Electrophysiology, 1998, 9, 1358-1362.	0.8	66
113	TGF-Î²1, Released by Myofibroblasts, Differentially Regulates Transcription and Function of Sodium and Potassium Channels in Adult Rat Ventricular Myocytes. PLoS ONE, 2013, 8, e55391.	1.1	66
114	Mechanisms of stretch-induced atrial fibrillation in the presence and the absence of adrenocholinergic stimulation: Interplay between rotors and focal discharges. Heart Rhythm, 2009, 6, 1009-1017.	0.3	65
115	Long-Term Frequency Gradients During Persistent Atrial Fibrillation in Sheep Are Associated With Stable Sources in the Left Atrium. Circulation: Arrhythmia and Electrophysiology, 2012, 5, 1160-1167.	2.1	65
116	CrossTalk proposal: Rotors have been demonstrated to drive human atrial fibrillation. Journal of Physiology, 2014, 592, 3163-3166.	1.3	64
117	miR-208b upregulation interferes with calcium handling in HL-1 atrial myocytes: Implications in human chronic atrial fibrillation. Journal of Molecular and Cellular Cardiology, 2016, 99, 162-173.	0.9	64
118	hiPSC-CM Monolayer Maturation State Determines Drug Responsiveness in High Throughput Pro-Arrhythmia Screen. Scientific Reports, 2017, 7, 13834.	1.6	63
119	Scn1b deletion leads to increased tetrodotoxinâ€sensitive sodium current, altered intracellular calcium homeostasis and arrhythmias in murine hearts. Journal of Physiology, 2015, 593, 1389-1407.	1.3	62
120	Adenoviral Expression of I _{Ks} Contributes to Wavebreak and Fibrillatory Conduction in Neonatal Rat Ventricular Cardiomyocyte Monolayers. Circulation Research, 2007, 101, 475-483.	2.0	61
121	AV Nodal Function During Atrial Fibrillation:.. Journal of Cardiovascular Electrophysiology, 1996, 7, 843-861.	0.8	60
122	Morphologic pattern of the intrinsic ganglionated nerve plexus in mouse heart. Heart Rhythm, 2011, 8, 448-454.	0.3	60
123	Left atrial pressure and dominant frequency of atrial fibrillation in humans. Heart Rhythm, 2011, 8, 181-187.	0.3	59
124	Topological Constraint on Scroll Wave Pinning. Physical Review Letters, 2000, 84, 2738-2741.	2.9	58
125	Structural heterogeneity promotes triggered activity, reflection and arrhythmogenesis in cardiomyocyte monolayers. Journal of Physiology, 2011, 589, 2363-2381.	1.3	58
126	Neuroanatomy of the murine cardiac conduction system. Autonomic Neuroscience: Basic and Clinical, 2013, 176, 32-47.	1.4	58

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127	Epicardial neural ganglionated plexus of ovine heart: Anatomic basis for experimental cardiac electrophysiology and nerve protective cardiac surgery. Heart Rhythm, 2010, 7, 942-950.	0.3	56
128	Spiral waves in normal isolated ventricular muscle. Physica D: Nonlinear Phenomena, 1991, 49, 182-197.	1.3	55
129	Proton and Zinc Effects on HERG Currents. Biophysical Journal, 1999, 77, 282-298.	0.2	55
130	Specific residues of the cytoplasmic domains of cardiac inward rectifier potassium channels are effective antifibrillatory targets. FASEB Journal, 2010, 24, 4302-4312.	0.2	55
131	A null mutation of the neuronal sodium channel Na _V 1.6 disrupts action potential propagation and excitationâ€contraction coupling in the mouse heart. FASEB Journal, 2012, 26, 63-72.	0.2	54
132	Heterogeneity of Ryanodine Receptor Dysfunction in a Mouse Model of Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation Research, 2013, 112, 298-308.	2.0	54
133	Pacemaker annihilation: diagnostic and therapeutic implications. American Heart Journal, 1980, 100, 128-130.	1.2	52
134	Deficient cMyBP-C protein expression during cardiomyocyte differentiation underlies human hypertrophic cardiomyopathy cellular phenotypes in disease specific human ES cell derived cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2016, 99, 197-206.	0.9	52
135	Factors affecting basket catheter detection of real and phantom rotors in the atria: A computational study. PLoS Computational Biology, 2018, 14, e1006017.	1.5	52
136	Action Potential Characteristics and Arrhythmogenic Properties of the Cardiac Conduction System of the Murine Heart. Circulation Research, 2001, 89, 329-335.	2.0	51
137	Anchoring of vortex filaments in 3D excitable media. Physica D: Nonlinear Phenomena, 1994, 72, 119-134.	1.3	50
138	Nerves projecting from the intrinsic cardiac ganglia of the pulmonary veins modulate sinoatrial node pacemaker function. Cardiovascular Research, 2013, 99, 566-575.	1.8	50
139	Technical features of a CCD video camera system to record cardiac fluorescence data. Annals of Biomedical Engineering, 1997, 25, 713-725.	1.3	48
140	Complement dependency of cardiomyocyte release of mediators during sepsis. FASEB Journal, 2011, 25, 2500-2508.	0.2	48
141	Eplerenone Reduces Atrial Fibrillation Burden Without Preventing AtrialÂElectrical Remodeling. Journal of the American College of Cardiology, 2017, 70, 2893-2905.	1.2	48
142	Action Potential Duration Restitution Portraits of Mammalian Ventricular Myocytes: Role of Calcium Current. Biophysical Journal, 2006, 91, 2735-2745.	0.2	47
143	Universal scaling law of electrical turbulence in the mammalian heart. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20985-20989.	3.3	47
144	Complement Destabilizes Cardiomyocyte Function In Vivo after Polymicrobial Sepsis and In Vitro. Journal of Immunology, 2016, 197, 2353-2361.	0.4	47

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145	Targeting atrioventricular differences in ion channel properties for terminating acute atrial fibrillation in pigs. Cardiovascular Research, 2011, 89, 843-851.	1.8	46
146	Structural bases for the different anti-fibrillatory effects of chloroquine and quinidine. Cardiovascular Research, 2011, 89, 862-869.	1.8	46
147	Inhibition of platelet-derived growth factor-AB signaling prevents electromechanical remodeling of adult atrial myocytes that contact myofibroblasts. Heart Rhythm, 2013, 10, 1044-1051.	0.3	46
148	A Major Role for hERG in Determining Frequency of Reentry in Neonatal Rat Ventricular Myocyte Monolayer. Circulation Research, 2010, 107, 1503-1511.	2.0	45
149	Reentry and atrial fibrillation. Heart Rhythm, 2007, 4, S13-S16.	0.3	44
150	Protein assemblies of sodium and inward rectifier potassium channels control cardiac excitability and arrhythmogenesis. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1463-H1473.	1.5	43
151	Eikonal Relation in Highly Dispersive Excitable Media. Physical Review Letters, 1997, 78, 2656-2659.	2.9	42
152	Three distinct phases of VF during global ischemia in the isolated blood-perfused pig heart. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1617-H1628.	1.5	42
153	Letter by Jalife et al Regarding Article, â€œQuantitative Analysis of Localized Sources Identified by Focal Impulse and Rotor Modulation Mapping in Atrial Fibrillationâ€. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1296-1298.	2.1	42
154	Scn2b Deletion in Mice Results in Ventricular and Atrial Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	2.1	42
155	Time- and frequency-domain analyses of atrial fibrillation activation rate: The optical mapping reference. Heart Rhythm, 2011, 8, 1758-1765.	0.3	40
156	The ionic bases of the action potential in isolated mouse cardiac Purkinje cell. Heart Rhythm, 2013, 10, 80-87.	0.3	40
157	The Sucrose Gap Preparation as a Model of AV Nodal Transmission: Are Dual Pathways Necessary for Reciprocation and AV Nodal "Echoes"?. PACE - Pacing and Clinical Electrophysiology, 1983, 6, 1106-1122.	0.5	39
158	Vortices with linear cores in excitable media. Proceedings of the Royal Society A, 1992, 437, 645-655.	1.0	39
159	Effect of remodelling, stretch and ischaemia on ventricular fibrillation frequency and dynamics in a heart failure model. Cardiovascular Research, 2005, 65, 158-166.	1.8	39
160	Cardiac electrical defects in progeroid mice and Hutchinsonâ€“Gilford progeria syndrome patients with nuclear lamina alterations. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7250-E7259.	3.3	39
161	RXP-E. Circulation Research, 2008, 103, 519-526.	2.0	38
162	Chloroquine Terminates Stretch-Induced Atrial Fibrillation More Effectively Than Flecainide in the Sheep Heart. Circulation: Arrhythmia and Electrophysiology, 2012, 5, 561-570.	2.1	38

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163	Mechanistic Approaches to Detect, Target, and Ablate the Drivers of Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e002481.	2.1	38
164	Tbx20 controls the expression of the KCNH2 gene and of hERG channels. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E416-E425.	3.3	38
165	Temporal Organization of Atrial Activity and Irregular Ventricular Rhythm During Spontaneous Atrial Fibrillation:.. Journal of Cardiovascular Electrophysiology, 2000, 11, 773-784.	0.8	37
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