Zhilin Qu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/104198/publications.pdf

Version: 2024-02-01

161 papers	10,511 citations	23500 58 h-index	37111 96 g-index
172 all docs	172 docs citations	172 times ranked	5986 citing authors

#	Article	IF	Citations
1	What is ventricular fibrillation?. Heart Rhythm, 2022, 19, 306-307.	0.3	4
2	Why Is Only Type 1 Electrocardiogram Diagnostic of Brugada Syndrome? Mechanistic Insights From Computer Modeling. Circulation: Arrhythmia and Electrophysiology, 2022, 15, CIRCEP121010365.	2.1	6
3	R-on-T and the initiation of reentry revisited: Integrating old and new concepts. Heart Rhythm, 2022, 19, 1369-1383.	0.3	12
4	Simultaneous activation of the small conductance calcium-activated potassium current by acetylcholine and inhibition of sodium current by ajmaline cause J-wave syndrome in Langendorff-perfused rabbit ventricles. Heart Rhythm, 2021, 18, 98-108.	0.3	7
5	Mechanisms of Premature Ventricular Complexes Caused by QT Prolongation. Biophysical Journal, 2021, 120, 352-369.	0.2	14
6	Activation of TRPC (Transient Receptor Potential Canonical) Channel Currents in Iron Overloaded Cardiac Myocytes. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009291.	2.1	11
7	The transient outward potassium current plays a key role in spiral wave breakup in ventricular tissue. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H826-H837.	1.5	4
8	Mechanisms of phaseâ€3 early afterdepolarizations and triggered activities in ventricular myocyte models. Physiological Reports, 2021, 9, e14883.	0.7	2
9	Life and death saddles in the heart. Physical Review E, 2021, 103, 062406.	0.8	6
10	Bursting and complex oscillatory patterns in a gene regulatory network model. Chaos, Solitons and Fractals, 2021, 152, 111348.	2.5	4
11	Mitochondrial depolarization promotes calcium alternans: Mechanistic insights from a ventricular myocyte model. PLoS Computational Biology, 2021, 17, e1008624.	1.5	4
12	Mitochondrial Contributions in the Genesis of Delayed Afterdepolarizations in Ventricular Myocytes. Frontiers in Physiology, 2021, 12, 744023.	1.3	4
13	Mechanisms of Arrhythmogenicity of Hypertrophic Cardiomyopathy-Associated Troponin T (TNNT2) Variant I79N. Frontiers in Cell and Developmental Biology, 2021, 9, 787581.	1.8	13
14	General Principles for the Validation of Proarrhythmia Risk Prediction Models: An Extension of the CiPA In Silico Strategy. Clinical Pharmacology and Therapeutics, 2020, 107, 102-111.	2.3	67
15	Stabilizer Cell Gene Therapy. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008420.	2.1	7
16	Small-conductance Ca2+-activated K+ channels promote J-wave syndrome and phase 2 reentry. Heart Rhythm, 2020, 17, 1582-1590.	0.3	8
17	Late I _{Na} Blocker GS967 Supresses Polymorphic Ventricular Tachycardia in a Transgenic Rabbit Model of Long QT Type 2. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e006875.	2.1	11
18	Spatially Discordant Repolarization Alternans in the Absence of Conduction Velocity Restitution. Biophysical Journal, 2020, 118, 2574-2587.	0.2	13

#	Article	IF	Citations
19	The Sinus Node. JACC: Clinical Electrophysiology, 2020, 6, 1841-1843.	1.3	32
20	Stability of spatially discordant repolarization alternans in cardiac tissue. Chaos, 2020, 30, 123141.	1.0	3
21	Delayed global feedback in the genesis and stability of spatiotemporalÂexcitationÂpatterns in paced biological excitable media. PLoS Computational Biology, 2020, 16, e1007931.	1.5	7
22	10.1063/5.0029209.3. , 2020, , .		0
23	Short-Long Heart Rate Variation Increases Dispersion of Action Potential Duration in Long QT Type 2 Transgenic Rabbit Model. Scientific Reports, 2019, 9, 14849.	1.6	6
24	A Spatiotemporal Ventricular Myocyte Model Incorporating Mitochondrial Calcium Cycling. Biophysical Journal, 2019, 117, 2349-2360.	0.2	10
25	Bifurcations Caused by Feedback between Voltage and Intracellular Ion Concentrations in Ventricular Myocytes. Physical Review Letters, 2019, 123, 218101.	2.9	7
26	The Heart by Numbers. Biophysical Journal, 2019, 117, E1-E3.	0.2	0
27	R-From-T as a Common Mechanism of Arrhythmia Initiation in Long QT Syndromes. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007571.	2.1	36
28	Mitochondrial Ca ²⁺ Influx Contributes to Arrhythmic Risk in Nonischemic Cardiomyopathy. Journal of the American Heart Association, 2018, 7, .	1.6	38
29	Mechanisms linking Tâ€wave alternans to spontaneous initiation of ventricular arrhythmias in rabbit models of long QT syndrome. Journal of Physiology, 2018, 596, 1341-1355.	1.3	40
30	Memory-induced nonlinear dynamics of excitation in cardiac diseases. Physical Review E, 2018, 97, 042414.	0.8	13
31	Transverse tubular network structures in the genesis of intracellular calcium alternans and triggered activity in cardiac cells. Journal of Molecular and Cellular Cardiology, 2018, 114, 288-299.	0.9	31
32	Determinants of early afterdepolarization properties in ventricular myocyte models. PLoS Computational Biology, 2018, 14, e1006382.	1.5	23
33	Concomitant SK current activation and sodium current inhibition cause J wave syndrome. JCI Insight, 2018, 3, .	2.3	18
34	Control of voltage-driven instabilities in cardiac myocytes with memory. Chaos, 2018, 28, 113122.	1.0	3
35	Transient Outward K ⁺ Current (I _{to}) Underlies the Right Ventricular Initiation of Polymorphic Ventricular Tachycardia in a Transgenic Rabbit Model of Long-QT Syndrome Type 1. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005414.	2.1	15
36	Directed fusion of cardiac spheroids into larger heterocellular microtissues enables investigation of cardiac action potential propagation via cardiac fibroblasts. PLoS ONE, 2018, 13, e0196714.	1.1	41

#	Article	IF	Citations
37	Multiscale Determinants of Delayed Afterdepolarization Amplitude in Cardiac Tissue. Biophysical Journal, 2017, 112, 1949-1961.	0.2	12
38	Memory-Induced Chaos in Cardiac Excitation. Physical Review Letters, 2017, 118, 138101.	2.9	17
39	Electrophysiology of Hypokalemia and Hyperkalemia. Circulation: Arrhythmia and Electrophysiology, 2017, 10, .	2.1	205
40	Stochastic initiation and termination of calcium-mediated triggered activity in cardiac myocytes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E270-E279.	3.3	26
41	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. Journal of Physiology, 2017, 595, 2229-2252.	1.3	76
42	Long-Lasting Sparks: Multi-Metastability and Release Competition in the Calcium Release Unit Network. PLoS Computational Biology, 2016, 12, e1004671.	1.5	25
43	Electrophysiology of Heart Failure Using a Rabbit Model: From the Failing Myocyte to Ventricular Fibrillation. PLoS Computational Biology, 2016, 12, e1004968.	1.5	19
44	A Dynamical Threshold for Cardiac Delayed Afterdepolarization-Mediated Triggered Activity. Biophysical Journal, 2016, 111, 2523-2533.	0.2	16
45	Spontaneous initiation of premature ventricular complexes and arrhythmias in type 2 long QT syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H1470-H1484.	1.5	36
46	A unified theory of calcium alternans in ventricular myocytes. Scientific Reports, 2016, 6, 35625.	1.6	43
47	Ablating atrial fibrillation: A translational science perspective for clinicians. Heart Rhythm, 2016, 13, 1868-1877.	0.3	22
48	Spatially Discordant Alternans and Arrhythmias in Tachypacing-Induced Cardiac Myopathy in Transgenic LQT1 Rabbits: The Importance of IKs and Ca2+ Cycling. PLoS ONE, 2015, 10, e0122754.	1.1	23
49	Complex excitation dynamics underlie polymorphic ventricular tachycardia in a transgenic rabbit model of long QT syndrome type 1. Heart Rhythm, 2015, 12, 220-228.	0.3	43
50	Mechanisms of Ventricular Arrhythmias: From Molecular Fluctuations to Electrical Turbulence. Annual Review of Physiology, 2015, 77, 29-55.	5.6	98
51	Acute reversal of phospholamban inhibition facilitates the rhythmic whole-cell propagating calcium waves in isolated ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2015, 80, 126-135.	0.9	16
52	Repolarization Reserve Evolves Dynamically During the Cardiac Action Potential. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 694-702.	2.1	25
53	Complex Early and Delayed Afterdepolarization Dynamics caused by Voltage-Calcium Coupling in Cardiac Myocytes. Biophysical Journal, 2015, 108, 261a-262a.	0.2	1
54	Multiscale Consequences of Spontaneous Calcium Release on Cardiac Delayed Afterdepolarizations. Biophysical Journal, 2015, 108, 264a.	0.2	2

#	Article	IF	Citations
55	Delayed afterdepolarizations generate both triggers and a vulnerable substrate promoting reentry in cardiac tissue. Heart Rhythm, 2015, 12, 2115-2124.	0.3	59
56	Calcium-Voltage Coupling in the Genesis of Early and Delayed Afterdepolarizations in Cardiac Myocytes. Biophysical Journal, 2015, 108, 1908-1921.	0.2	94
57	Targeting the late component of the cardiac L-type Ca2+ current to suppress early afterdepolarizations. Journal of General Physiology, 2015, 145, 395-404.	0.9	47
58	Perspective: A dynamics-based classification of ventricular arrhythmias. Journal of Molecular and Cellular Cardiology, 2015, 82, 136-152.	0.9	66
59	Molecular Basis of Hypokalemia-Induced Ventricular Fibrillation. Circulation, 2015, 132, 1528-1537.	1.6	87
60	T-tubule disruption promotes calcium alternans in failing ventricular myocytes: Mechanistic insights from computational modeling. Journal of Molecular and Cellular Cardiology, 2015, 79, 32-41.	0.9	50
61	Simulation Methods and Validation Criteria for Modeling Cardiac Ventricular Electrophysiology. PLoS ONE, 2014, 9, e114494.	1.1	48
62	Cardiac fibrosis and arrhythmogenesis: The road to repair is paved with perils. Journal of Molecular and Cellular Cardiology, 2014, 70, 83-91.	0.9	247
63	Nonlinear and stochastic dynamics in the heart. Physics Reports, 2014, 543, 61-162.	10.3	166
64	Selective inhibition of late sodium current suppresses ventricular tachycardia and fibrillation in intact rat hearts. Heart Rhythm, 2014, 11, 492-501.	0.3	45
65	Network Dynamics in Cardiac Electrophysiology. Springer Series in Biophysics, 2014, , 243-260.	0.4	2
66	The emergence of subcellular pacemaker sites for calcium waves and oscillations. Journal of Physiology, 2013, 591, 5305-5320.	1.3	27
67	Calcium alternans in cardiac myocytes: Order from disorder. Journal of Molecular and Cellular Cardiology, 2013, 58, 100-109.	0.9	67
68	Pro- and antiarrhythmic effects of ATP-sensitive potassium current activation on reentry during early afterdepolarization-mediated arrhythmias. Heart Rhythm, 2013, 10, 575-582.	0.3	14
69	Controlling cardiac alternans. Heart Rhythm, 2013, 10, 573-574.	0.3	2
70	Early afterdepolarizations in cardiac myocytes: beyond reduced repolarization reserve. Cardiovascular Research, 2013, 99, 6-15.	1.8	143
71	Oxidative stress, fibrosis, and early afterdepolarization-mediated cardiac arrhythmias. Frontiers in Physiology, 2013, 4, 19.	1.3	24
72	Computational Modeling and Numerical Methods for Spatiotemporal Calcium Cycling in Ventricular Myocytes. Frontiers in Physiology, 2012, 3, 114.	1.3	58

#	Article	IF	Citations
73	Calcium alternans in a couplon network model of ventricular myocytes: role of sarcoplasmic reticulum load. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H341-H352.	1.5	46
74	â€œGood Enough Solutionsâ€•and the Genetics of Complex Diseases. Circulation Research, 2012, 111, 493-504.	2.0	94
75	Arrhythmogenic consequences of myofibroblastâ€"myocyte coupling. Cardiovascular Research, 2012, 93, 242-251.	1.8	92
76	Role of the transient outward potassium current in the genesis of early afterdepolarizations in cardiac cells. Cardiovascular Research, 2012, 95, 308-316.	1.8	59
77	Bi-stable wave propagation and early afterdepolarizationâ€"mediated cardiac arrhythmias. Heart Rhythm, 2012, 9, 115-122.	0.3	53
78	Differential conditions for early afterâ€depolarizations and triggered activity in cardiomyocytes derived from transgenic LQT1 and LQT2 rabbits. Journal of Physiology, 2012, 590, 1171-1180.	1.3	104
79	Criticality in Intracellular Calcium Signaling in Cardiac Myocytes. Biophysical Journal, 2012, 102, 2433-2442.	0.2	81
80	Dynamics of Early Afterdepolarization-Mediated Triggered Activity in Cardiac Monolayers. Biophysical Journal, 2012, 102, 2706-2714.	0.2	35
81	Synchronization of Early Afterdepolarizations and Arrhythmogenesis inÂHeterogeneous Cardiac Tissue Models. Biophysical Journal, 2012, 103, 365-373.	0.2	46
82	Roles of Protein Ubiquitination and Degradation Kinetics in Biological Oscillations. PLoS ONE, 2012, 7, e34616.	1.1	22
83	Resonance drifts of spiral waves on media of periodic excitability. Physical Review E, 2012, 85, 046216.	0.8	13
84	Mechanisms and Determinants of Ultralong Action Potential Duration and Slow Rate-Dependence in Cardiac Myocytes. PLoS ONE, 2012, 7, e43587.	1.1	30
85	Linking Flickering to Waves and Whole-Cell Oscillations in a Mitochondrial Network Model. Biophysical Journal, 2011, 101, 2102-2111.	0.2	33
86	Suppression of Re-Entrant and Multifocal Ventricular Fibrillation by the Late Sodium Current Blocker Ranolazine. Journal of the American College of Cardiology, 2011, 57, 366-375.	1.2	106
87	Supernormal Excitability Causes Alternans, Block, Wavebreak and Reentry in Cardiac Tissue. Biophysical Journal, 2011, 100, 435a.	0.2	3
88	Shaping a new Ca²⁺ conductance to suppress early afterdepolarizations in cardiac myocytes. Journal of Physiology, 2011, 589, 6081-6092.	1.3	59
89	Chaos in the genesis and maintenance of cardiac arrhythmias. Progress in Biophysics and Molecular Biology, 2011, 105, 247-257.	1.4	82
90	Multi-scale modeling in biology: How to bridge the gaps between scales?. Progress in Biophysics and Molecular Biology, 2011, 107, 21-31.	1.4	111

#	Article	IF	Citations
91	Protective Role of Transient Pore Openings in Calcium Handling by Cardiac Mitochondria. Journal of Biological Chemistry, 2011, 286, 34851-34857.	1.6	81
92	Genesis of Phase 3 Early Afterdepolarizations and Triggered Activity in Acquired Long-QT Syndrome. Circulation: Arrhythmia and Electrophysiology, 2011, 4, 103-111.	2.1	86
93	Alternans and Arrhythmias. Circulation Research, 2011, 108, 98-112.	2.0	156
94	T-wave alternans and arrhythmogenesis in cardiac diseases. Frontiers in Physiology, 2010, 1, 154.	1.3	86
95	Spark-Induced Sparks As a Mechanism of Intracellular Calcium Alternans in Cardiac Myocytes. Circulation Research, 2010, 106, 1582-1591.	2.0	112
96	Mitochondrial Oscillations and Waves in Cardiac Myocytes: Insights from Computational Models. Biophysical Journal, 2010, 98, 1428-1438.	0.2	39
97	Irregularly Appearing Early Afterdepolarizations in Cardiac Myocytes: Random Fluctuations or Dynamical Chaos?. Biophysical Journal, 2010, 99, 765-773.	0.2	83
98	So Little Source, So Much Sink: Requirements for Afterdepolarizations to Propagate in Tissue. Biophysical Journal, 2010, 99, 1408-1415.	0.2	291
99	Early afterdepolarizations and cardiac arrhythmias. Heart Rhythm, 2010, 7, 1891-1899.	0.3	315
100	Drifting dynamics of dense and sparse spiral waves in heterogeneous excitable media. Physical Review E, 2009, 79, 036212.	0.8	14
101	Period-Doubling Bifurcation in an Array of Coupled Stochastically Excitable Elements Subjected to Global Periodic Forcing. Physical Review Letters, 2009, 103, 044102.	2.9	33
102	Bifurcation and Chaos in a Model of Cardiac Early Afterdepolarizations. Physical Review Letters, 2009, 102, 258103.	2.9	125
103	Synchronization of chaotic early afterdepolarizations in the genesis of cardiac arrhythmias. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2983-2988.	3.3	233
104	Cardiac alternans induced by fibroblast-myocyte coupling: mechanistic insights from computational models. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H775-H784.	1.5	85
105	Increased susceptibility of aged hearts to ventricular fibrillation during oxidative stress. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H1594-H1605.	1.5	120
106	The effects of cascade length, kinetics and feedback loops on biological signal transduction dynamics in a simplified cascade model. Physical Biology, 2009, 6, 016007.	0.8	17
107	Effects of fibroblast-myocyte coupling on cardiac conduction and vulnerability to reentry: A computational study. Heart Rhythm, 2009, 6, 1641-1649.	0.3	163
108	A Rabbit Ventricular Action Potential Model Replicating Cardiac Dynamics at Rapid Heart Rates. Biophysical Journal, 2008, 94, 392-410.	0.2	370

#	Article	IF	Citations
109	Modifying L-Type Calcium Current Kinetics: Consequences for Cardiac Excitation and Arrhythmia Dynamics. Biophysical Journal, 2008, 94, 411-423.	0.2	84
110	Intracellular Ca Alternans: Coordinated Regulation by Sarcoplasmic Reticulum Release, Uptake, and Leak. Biophysical Journal, 2008, 95, 3100-3110.	0.2	78
111	Glycolytic Oscillations in Isolated Rabbit Ventricular Myocytes. Journal of Biological Chemistry, 2008, 283, 36321-36327.	1.6	52
112	Coupled iterated map models of action potential dynamics in a one-dimensional cable of cardiac cells. New Journal of Physics, 2008, 10, 055001.	1.2	9
113	The chicken or the egg? Voltage and calcium dynamics in the heart. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2054-H2055.	1.5	9
114	The pinwheel experiment revisited: effects of cellular electrophysiological properties on vulnerability to cardiac reentry. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1781-H1790.	1.5	10
115	Vulnerability to re-entry in simulated two-dimensional cardiac tissue: Effects of electrical restitution and stimulation sequence. Chaos, 2007, 17, 043115.	1.0	18
116	Dispersion of Refractoriness and Induction of Reentry due to Chaos Synchronization in a Model of Cardiac Tissue. Physical Review Letters, 2007, 99, 118101.	2.9	28
117	Nonlinear dynamics of cardiac excitation-contraction coupling: An iterated map study. Physical Review E, 2007, 75, 011927.	0.8	81
118	Dynamic Origin of Spatially Discordant Alternans in Cardiac Tissue. Biophysical Journal, 2007, 92, 448-460.	0.2	98
119	Short-term cardiac memory and mother rotor fibrillation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H180-H189.	1.5	50
120	Signal transduction network motifs and biological memory. Journal of Theoretical Biology, 2007, 246, 755-761.	0.8	28
121	Vulnerable Window for Conduction Block in a One-Dimensional Cable of Cardiac Cells, 1: Single Extrasystoles. Biophysical Journal, 2006, 91, 793-804.	0.2	60
122	Vulnerable Window for Conduction Block in a One-Dimensional Cable of Cardiac Cells, 2: Multiple Extrasystoles. Biophysical Journal, 2006, 91, 805-815.	0.2	30
123	Dynamics and Cardiac Arrhythmias. Journal of Cardiovascular Electrophysiology, 2006, 17, 1042-1049.	0.8	35
124	Linking cell division to cell growth in a spatiotemporal model of the cell cycle. Journal of Theoretical Biology, 2006, 241, 120-133.	0.8	38
125	From Pulsus to Pulseless. Circulation Research, 2006, 98, 1244-1253.	2.0	386
126	Critical mass hypothesis revisited: role of dynamical wave stability in spontaneous termination of cardiac fibrillation. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H255-H263.	1.5	60

#	Article	IF	Citations
127	Thematic review series: Systems Biology Approaches to Metabolic and Cardiovascular Disorders. Network perspectives of cardiovascular metabolism. Journal of Lipid Research, 2006, 47, 2355-2366.	2.0	68
128	Spatially Discordant Alternans in Cardiac Tissue. Circulation Research, 2006, 99, 520-527.	2.0	146
129	Chronic nicotine in hearts with healed ventricular myocardial infarction promotes atrial flutter that resembles typical human atrial flutter. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2878-H2886.	1.5	19
130	Effects of Na+ and K+ channel blockade on vulnerability to and termination of fibrillation in simulated normal cardiac tissue. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1692-H1701.	1.5	40
131	The Dynamics of Cardiac Fibrillation. Circulation, 2005, 112, 1232-1240.	1.6	285
132	Hysteresis and Cell Cycle Transitions: How Crucial Is It?. Biophysical Journal, 2005, 88, 1626-1634.	0.2	25
133	Effects of Na+ channel and cell coupling abnormalities on vulnerability to reentry: a simulation study. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1310-H1321.	1.5	66
134	Mother Rotors and the Mechanisms of D600-Induced Type 2 Ventricular Fibrillation. Circulation, 2004, 110, 2110-2118.	1.6	57
135	Coordination of cell growth and cell division: a mathematical modeling study. Journal of Cell Science, 2004, 117, 4199-4207.	1.2	32
136	Intracellular Ca dynamics in ventricular fibrillation. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1836-H1844.	1.5	79
137	Dynamical effects of diffusive cell coupling on cardiac excitation and propagation: a simulation study. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2803-H2812.	1.5	21
138	Multisite Phosphorylation and Network Dynamics of Cyclin-Dependent Kinase Signaling in the Eukaryotic Cell Cycle. Biophysical Journal, 2004, 86, 3432-3443.	0.2	43
139	A simulation study of the effects of cardiac anatomy in ventricular fibrillation. Journal of Clinical Investigation, 2004, 113, 686-693.	3.9	87
140	A kinematic study of spiral wave drift due to an electric field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 308, 179-186.	0.9	13
141	Dynamics of the Cell Cycle: Checkpoints, Sizers, and Timers. Biophysical Journal, 2003, 85, 3600-3611.	0.2	112
142	Regulation of the mammalian cell cycle: a model of the G₁-to-S transition. American Journal of Physiology - Cell Physiology, 2003, 284, C349-C364.	2.1	153
143	Electrical refractory period restitution and spiral wave reentry in simulated cardiac tissue. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H448-H460.	1.5	58
144	Increased vulnerability to inducible atrial fibrillation caused by partial cellular uncoupling with heptanol. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1116-H1122.	1.5	35

#	Article	IF	Citations
145	Electrical Restitution and Cardiac Fibrillation. Journal of Cardiovascular Electrophysiology, 2002, 13, 292-295.	0.8	68
146	Effects of simulated ischemia on spiral wave stability. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H1667-H1673.	1.5	35
147	Electrophysiological heterogeneity and stability of reentry in simulated cardiac tissue. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H535-H545.	1.5	79
148	Coexistence of multiple spiral waves with independent frequencies in a heterogeneous excitable medium. Physical Review E, 2001, 63, 031905.	0.8	39
149	Origins of Spiral Wave Meander and Breakup in a Two-Dimensional Cardiac Tissue Model. Annals of Biomedical Engineering, 2000, 28, 755-771.	1.3	150
150	Ventricular Fibrillation. Circulation Research, 2000, 87, 1103-1107.	2.0	208
151	From local to global spatiotemporal chaos in a cardiac tissue model. Physical Review E, 2000, 61, 727-732.	0.8	42
152	Mechanisms of Discordant Alternans and Induction of Reentry in Simulated Cardiac Tissue. Circulation, 2000, 102, 1664-1670.	1.6	355
153	Scroll Wave Dynamics in a Three-Dimensional Cardiac Tissue Model: Roles of Restitution, Thickness, and Fiber Rotation. Biophysical Journal, 2000, 78, 2761-2775.	0.2	145
154	Cardiac electrical restitution properties and stability of reentrant spiral waves: a simulation study. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H269-H283.	1.5	225
155	Diffusion-Induced Vortex Filament Instability in 3-Dimensional Excitable Media. Physical Review Letters, 1999, 83, 2668-2671.	2.9	32
156	Spatiotemporal Heterogeneity in the Induction of Ventricular Fibrillation by Rapid Pacing. Circulation Research, 1999, 84, 1318-1331.	2.0	212
157	An advanced algorithm for solving partial differential equation in cardiac conduction. IEEE Transactions on Biomedical Engineering, 1999, 46, 1166-1168.	2.5	224
158	Dynamics of reentry around a circular obstacle in cardiac tissue. Physical Review E, 1998, 58, 6355-6358.	0.8	63
159	Role of Pectinate Muscle Bundles in the Generation and Maintenance of Intra-atrial Reentry. Circulation Research, 1998, 83, 448-462.	2.0	123
160	Spatiotemporal Chaos in a Simulated Ring of Cardiac Cells. Physical Review Letters, 1997, 78, 1387-1390.	2.9	64
161	Collective Dynamics of Excitable System in Heterogeneous Media. , 0, , .		0