Zhilin Qu

List of Publications by Year in Descending Order

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

156 papers	8,389 citations	54 h-index	87 g-index
172 ext. papers	9,701 ext. citations	5.4 avg, IF	6.08 L-index

#	Paper	IF	Citations
156	Why Is Only Type 1 Electrocardiogram Diagnostic of Brugada Syndrome? Mechanistic Insights From Computer Modeling.. *Circulation: Arrhythmia and Electrophysiology*, **2021**, CIRCEP121010365	6.4	1
155	Mitochondrial Contributions in the Genesis of Delayed Afterdepolarizations in Ventricular Myocytes. *Frontiers in Physiology*, **2021**, 12, 744023	4.6	1
154	Mechanisms of phase-3 early afterdepolarizations and triggered activities in ventricular myocyte models. *Physiological Reports*, **2021**, 9, e14883	2.6	0
153	Life and death saddles in the heart. *Physical Review E*, **2021**, 103, 062406	2.4	1
152	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	6.7	2
151	Mechanisms of Premature Ventricular Complexes Caused by QT Prolongation. *Biophysical Journal*, **2021**, 120, 352-369	2.9	5
150	Activation of TRPC (Transient Receptor Potential Canonical) Channel Currents in Iron Overloaded Cardiac Myocytes. *Circulation: Arrhythmia and Electrophysiology*, **2021**, 14, e009291	6.4	5
149	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	5.2	2
148	Bursting and complex oscillatory patterns in a gene regulatory network model. *Chaos, Solitons and Fractals*, **2021**, 152, 111348	9.3	1
147	Mitochondrial depolarization promotes calcium alternans: Mechanistic insights from a ventricular myocyte model. *PLoS Computational Biology*, **2021**, 17, e1008624	5	1
146	Mechanisms of Arrhythmogenicity of Hypertrophic Cardiomyopathy-Associated Troponin T () Variant I79N.. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 787581	5.7	0
145	Small-conductance Ca-activated K channels promote J-wave syndrome and phase 2 reentry. *Heart Rhythm*, **2020**, 17, 1582-1590	6.7	5
144	Late I Blocker GS967 Supresses Polymorphic Ventricular Tachycardia in a Transgenic Rabbit Model of Long QT Type 2. *Circulation: Arrhythmia and Electrophysiology*, **2020**, 13, e006875	6.4	5
143	Spatially Discordant Repolarization Alternans in the Absence of Conduction Velocity Restitution. *Biophysical Journal*, **2020**, 118, 2574-2587	2.9	7
142	Delayed global feedback in the genesis and stability of spatiotemporal excitation patterns in paced biological excitable media. *PLoS Computational Biology*, **2020**, 16, e1007931	5	5
141	Stability of spatially discordant repolarization alternans in cardiac tissue. *Chaos*, **2020**, 30, 123141	3.3	1
140	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	6.1	34

139	Stabilizer Cell Gene Therapy: A Less-Is-More Strategy to Prevent Cardiac Arrhythmias. *Circulation: Arrhythmia and Electrophysiology*, **2020**, 13, e008420	6.4	2
138	Relationship Between Cardiac Alternans, Calcium Cycling, and Ventricular Arrhythmias **2019**, 364-374		2
137	Short-Long Heart Rate Variation Increases Dispersion of Action Potential Duration in Long QT Type 2 Transgenic Rabbit Model. *Scientific Reports*, **2019**, 9, 14849	4.9	2
136	A Spatiotemporal Ventricular Myocyte Model Incorporating Mitochondrial Calcium Cycling. *Biophysical Journal*, **2019**, 117, 2349-2360	2.9	6
135	Bifurcations Caused by Feedback between Voltage and Intracellular Ion Concentrations in Ventricular Myocytes. *Physical Review Letters*, **2019**, 123, 218101	7.4	3
134	R-From-T as a Common Mechanism of Arrhythmia Initiation in Long QT Syndromes. *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e007571	6.4	15
133	Mitochondrial Ca Influx Contributes to Arrhythmic Risk in Nonischemic Cardiomyopathy. *Journal of the American Heart Association*, **2018**, 7,	6	28
132	Mechanisms linking T-wave alternans to spontaneous initiation of ventricular arrhythmias in rabbit models of long QT syndrome. *Journal of Physiology*, **2018**, 596, 1341-1355	3.9	25
131	Memory-induced nonlinear dynamics of excitation in cardiac diseases. *Physical Review E*, **2018**, 97, 042414	2.4	10
130	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	5.8	21
129	Determinants of early afterdepolarization properties in ventricular myocyte models. *PLoS Computational Biology*, **2018**, 14, e1006382	5	14
128	Concomitant SK current activation and sodium current inhibition cause J wave syndrome. *JCI Insight* , **2018**, 3,	9.9	11
127	Control of voltage-driven instabilities in cardiac myocytes with memory. *Chaos*, **2018**, 28, 113122	3.3	2
126	Transient Outward K Current (I) 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	6.4	11
125	Directed fusion of cardiac spheroids into larger heterocellular microtissues enables investigation of cardiac action potential propagation via cardiac fibroblasts. *PLoS ONE*, **2018**, 13, e0196714	3.7	25
124	Multiscale Determinants of Delayed Afterdepolarization Amplitude in Cardiac Tissue. *Biophysical Journal*, **2017**, 112, 1949-1961	2.9	10
123	Memory-Induced Chaos in Cardiac Excitation. *Physical Review Letters*, **2017**, 118, 138101	7.4	15
122	Electrophysiology of Hypokalemia and Hyperkalemia. *Circulation: Arrhythmia and Electrophysiology*, **2017**, 10,	6.4	118

121	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	11.5	18
120	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. *Journal of Physiology*, **2017**, 595, 2229-2252	3.9	51
119	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	5.2	22
118	A unified theory of calcium alternans in ventricular myocytes. *Scientific Reports*, **2016**, 6, 35625	4.9	34
117	Ablating atrial fibrillation: A translational science perspective for clinicians. *Heart Rhythm*, **2016**, 13, 1868-77	6.7	16
116	Long-Lasting Sparks: Multi-Metastability and Release Competition in the Calcium Release Unit Network. *PLoS Computational Biology*, **2016**, 12, e1004671	5	20
115	Electrophysiology of Heart Failure Using a Rabbit Model: From the Failing Myocyte to Ventricular Fibrillation. *PLoS Computational Biology*, **2016**, 12, e1004968	5	13
114	A Dynamical Threshold for Cardiac Delayed Afterdepolarization-Mediated Triggered Activity. *Biophysical Journal*, **2016**, 111, 2523-2533	2.9	11
113	Repolarization reserve evolves dynamically during the cardiac action potential: effects of transient outward currents on early afterdepolarizations. *Circulation: Arrhythmia and Electrophysiology*, **2015**, 8, 694-702	6.4	21
112	Multiscale Consequences of Spontaneous Calcium Release on Cardiac Delayed Afterdepolarizations. *Biophysical Journal*, **2015**, 108, 264a	2.9	2
111	Delayed afterdepolarizations generate both triggers and a vulnerable substrate promoting reentry in cardiac tissue. *Heart Rhythm*, **2015**, 12, 2115-24	6.7	36
110	Calcium-voltage coupling in the genesis of early and delayed afterdepolarizations in cardiac myocytes. *Biophysical Journal*, **2015**, 108, 1908-21	2.9	69
109	Targeting the late component of the cardiac L-type Ca2+ current to suppress early afterdepolarizations. *Journal of General Physiology*, **2015**, 145, 395-404	3.4	31
108	Perspective: a dynamics-based classification of ventricular arrhythmias. *Journal of Molecular and Cellular Cardiology*, **2015**, 82, 136-52	5.8	51
107	Molecular Basis of Hypokalemia-Induced Ventricular Fibrillation. *Circulation*, **2015**, 132, 1528-1537	16.7	69
106	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	5.8	41
105	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	3.7	20
104	Complex excitation dynamics underlie polymorphic ventricular tachycardia in a transgenic rabbit model of long QT syndrome type 1. *Heart Rhythm*, **2015**, 12, 220-8	6.7	32

103	Mechanisms of ventricular arrhythmias: from molecular fluctuations to electrical turbulence. *Annual Review of Physiology*, **2015**, 77, 29-55	23.1	68
102	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, 126-35	5.8	14
101	Cardiac fibrosis and arrhythmogenesis: the road to repair is paved with perils. *Journal of Molecular and Cellular Cardiology*, **2014**, 70, 83-91	5.8	177
100	Nonlinear and Stochastic Dynamics in the Heart. *Physics Reports*, **2014**, 543, 61-162	27.7	121
99	Selective inhibition of late sodium current suppresses ventricular tachycardia and fibrillation in intact rat hearts. *Heart Rhythm*, **2014**, 11, 492-501	6.7	38
98	Simulation Methods and Validation Criteria for Modeling Cardiac Ventricular Electrophysiology. *PLoS ONE*, **2014**, 9, e114494	3.7	39
97	Network Dynamics in Cardiac Electrophysiology. *Springer Series in Biophysics*, **2014**, 243-260		2
96	The emergence of subcellular pacemaker sites for calcium waves and oscillations. *Journal of Physiology*, **2013**, 591, 5305-20	3.9	21
95	Calcium alternans in cardiac myocytes: order from disorder. *Journal of Molecular and Cellular Cardiology*, **2013**, 58, 100-9	5.8	51
94	Pro- and antiarrhythmic effects of ATP-sensitive potassium current activation on reentry during early afterdepolarization-mediated arrhythmias. *Heart Rhythm*, **2013**, 10, 575-82	6.7	12
93	Early afterdepolarizations in cardiac myocytes: beyond reduced repolarization reserve. *Cardiovascular Research*, **2013**, 99, 6-15	9.9	106
92	Oxidative stress, fibrosis, and early afterdepolarization-mediated cardiac arrhythmias. *Frontiers in Physiology*, **2013**, 4, 19	4.6	17
91	Bi-stable wave propagation and early afterdepolarization-mediated cardiac arrhythmias. *Heart Rhythm*, **2012**, 9, 115-22	6.7	44
90	Differential conditions for early after-depolarizations and triggered activity in cardiomyocytes derived from transgenic LQT1 and LQT2 rabbits. *Journal of Physiology*, **2012**, 590, 1171-80	3.9	91
89	Criticality in intracellular calcium signaling in cardiac myocytes. *Biophysical Journal*, **2012**, 102, 2433-42	2.9	55
88	Dynamics of early afterdepolarization-mediated triggered activity in cardiac monolayers. *Biophysical Journal*, **2012**, 102, 2706-14	2.9	31
87	Synchronization of early afterdepolarizations and arrhythmogenesis in heterogeneous cardiac tissue models. *Biophysical Journal*, **2012**, 103, 365-73	2.9	37
86	Roles of protein ubiquitination and degradation kinetics in biological oscillations. *PLoS ONE*, **2012**, 7, e34616	3.7	20

85	Resonance drifts of spiral waves on media of periodic excitability. *Physical Review E*, **2012**, 85, 046216	2.4	10
84	Computational modeling and numerical methods for spatiotemporal calcium cycling in ventricular myocytes. *Frontiers in Physiology*, **2012**, 3, 114	4.6	47
83	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, H341-52	5.2	38
82	"Good enough solutions" and the genetics of complex diseases. *Circulation Research*, **2012**, 111, 493-504	15.7	68
81	Arrhythmogenic consequences of myofibroblast-myocyte coupling. *Cardiovascular Research*, **2012**, 93, 242-51	9.9	74
80	Role of the transient outward potassium current in the genesis of early afterdepolarizations in cardiac cells. *Cardiovascular Research*, **2012**, 95, 308-16	9.9	51
79	Mechanisms and determinants of ultralong action potential duration and slow rate-dependence in cardiac myocytes. *PLoS ONE*, **2012**, 7, e43587	3.7	23
78	Linking flickering to waves and whole-cell oscillations in a mitochondrial network model. *Biophysical Journal*, **2011**, 101, 2102-11	2.9	25
77	Suppression of re-entrant and multifocal ventricular fibrillation by the late sodium current blocker ranolazine. *Journal of the American College of Cardiology*, **2011**, 57, 366-75	15.1	91
76	Supernormal Excitability Causes Alternans, Block, Wavebreak and Reentry in Cardiac Tissue. *Biophysical Journal*, **2011**, 100, 435a	2.9	3
75	Shaping a new Ca□+ conductance to suppress early afterdepolarizations in cardiac myocytes. *Journal of Physiology*, **2011**, 589, 6081-92	3.9	51
74	Chaos in the genesis and maintenance of cardiac arrhythmias. *Progress in Biophysics and Molecular Biology*, **2011**, 105, 247-57	4.7	73
73	Multi-scale modeling in biology: how to bridge the gaps between scales?. *Progress in Biophysics and Molecular Biology*, **2011**, 107, 21-31	4.7	81
72	Protective role of transient pore openings in calcium handling by cardiac mitochondria. *Journal of Biological Chemistry*, **2011**, 286, 34851-7	5.4	58
71	Genesis of phase 3 early afterdepolarizations and triggered activity in acquired long-QT syndrome. *Circulation: Arrhythmia and Electrophysiology*, **2011**, 4, 103-11	6.4	75
70	Alternans and arrhythmias: from cell to heart. *Circulation Research*, **2011**, 108, 98-112	15.7	137
69	T-wave alternans and arrhythmogenesis in cardiac diseases. *Frontiers in Physiology*, **2010**, 1, 154	4.6	73
68	Spark-induced sparks as a mechanism of intracellular calcium alternans in cardiac myocytes. *Circulation Research*, **2010**, 106, 1582-91	15.7	90

67	Mitochondrial oscillations and waves in cardiac myocytes: insights from computational models. *Biophysical Journal*, **2010**, 98, 1428-38	2.9	36
66	Irregularly appearing early afterdepolarizations in cardiac myocytes: random fluctuations or dynamical chaos?. *Biophysical Journal*, **2010**, 99, 765-73	2.9	64
65	So little source, so much sink: requirements for afterdepolarizations to propagate in tissue. *Biophysical Journal*, **2010**, 99, 1408-15	2.9	224
64	Early afterdepolarizations and cardiac arrhythmias. *Heart Rhythm*, **2010**, 7, 1891-9	6.7	233
63	Drifting dynamics of dense and sparse spiral waves in heterogeneous excitable media. *Physical Review E*, **2009**, 79, 036212	2.4	12
62	Period-doubling bifurcation in an array of coupled stochastically excitable elements subjected to global periodic forcing. *Physical Review Letters*, **2009**, 103, 044102	7.4	29
61	Bifurcation and chaos in a model of cardiac early afterdepolarizations. *Physical Review Letters*, **2009** , 102, 258103	7.4	102
60	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, 2983-8	11.5	184
59	Cardiac alternans induced by fibroblast-myocyte coupling: mechanistic insights from computational models. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 297, H775-84	5.2	77
58	Increased susceptibility of aged hearts to ventricular fibrillation during oxidative stress. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 297, H1594-605	5.2	97
57	The effects of cascade length, kinetics and feedback loops on biological signal transduction dynamics in a simplified cascade model. *Physical Biology*, **2009**, 6, 016007	3	16
56	Effects of fibroblast-myocyte coupling on cardiac conduction and vulnerability to reentry: A computational study. *Heart Rhythm*, **2009**, 6, 1641-9	6.7	118
55	A rabbit ventricular action potential model replicating cardiac dynamics at rapid heart rates. *Biophysical Journal*, **2008**, 94, 392-410	2.9	313
54	Modifying L-type calcium current kinetics: consequences for cardiac excitation and arrhythmia dynamics. *Biophysical Journal*, **2008**, 94, 411-23	2.9	72
53	Intracellular Ca alternans: coordinated regulation by sarcoplasmic reticulum release, uptake, and leak. *Biophysical Journal*, **2008**, 95, 3100-10	2.9	71
52	Glycolytic oscillations in isolated rabbit ventricular myocytes. *Journal of Biological Chemistry*, **2008**, 283, 36321-7	5.4	42
51	Coupled Iterated Map Models of Action Potential Dynamics in a One-dimensional Cable of Cardiac Cells. *New Journal of Physics*, **2008**, 10, 55001-55024	2.9	8
50	Dynamic origin of spatially discordant alternans in cardiac tissue. *Biophysical Journal*, **2007**, 92, 448-60	2.9	85

49	Short-term cardiac memory and mother rotor fibrillation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H180-9	5.2	35
48	Signal transduction network motifs and biological memory. *Journal of Theoretical Biology*, **2007**, 246, 755-61	2.3	20
47	The chicken or the egg? Voltage and calcium dynamics in the heart. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H2054-5	5.2	8
46	The pinwheel experiment revisited: effects of cellular electrophysiological properties on vulnerability to cardiac reentry. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H1781-90	5.2	7
45	Vulnerability to re-entry in simulated two-dimensional cardiac tissue: effects of electrical restitution and stimulation sequence. *Chaos*, **2007**, 17, 043115	3.3	14
44	Dispersion of refractoriness and induction of reentry due to chaos synchronization in a model of cardiac tissue. *Physical Review Letters*, **2007**, 99, 118101	7.4	22
43	Nonlinear dynamics of cardiac excitation-contraction coupling: an iterated map study. *Physical Review E*, **2007**, 75, 011927	2.4	70
42	From pulsus to pulseless: the saga of cardiac alternans. *Circulation Research*, **2006**, 98, 1244-53	15.7	349
41	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, H255-63	5.2	49
40	Systems biology approaches to metabolic and cardiovascular disorders: network perspectives of cardiovascular metabolism. *Journal of Lipid Research*, **2006**, 47, 2355-66	6.3	62
39	Spatially discordant alternans in cardiac tissue: role of calcium cycling. *Circulation Research*, **2006**, 99, 520-7	15.7	127
38	Vulnerable window for conduction block in a one-dimensional cable of cardiac cells, 1: single extrasystoles. *Biophysical Journal*, **2006**, 91, 793-804	2.9	44
37	Vulnerable window for conduction block in a one-dimensional cable of cardiac cells, 2: multiple extrasystoles. *Biophysical Journal*, **2006**, 91, 805-15	2.9	25
36	Dynamics and cardiac arrhythmias. *Journal of Cardiovascular Electrophysiology*, **2006**, 17, 1042-9	2.7	31
35	Linking cell division to cell growth in a spatiotemporal model of the cell cycle. *Journal of Theoretical Biology*, **2006**, 241, 120-33	2.3	31
34	Hysteresis and cell cycle transitions: how crucial is it?. *Biophysical Journal*, **2005**, 88, 1626-34	2.9	20
33	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, H2878-86	5.2	17
32	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, H1692-701	5.2	34

31	The dynamics of cardiac fibrillation. *Circulation*, **2005**, 112, 1232-40	16.7	253
30	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, H1310-21	5.2	61
29	Mother rotors and the mechanisms of D600-induced type 2 ventricular fibrillation. *Circulation*, **2004** , 110, 2110-8	16.7	54
28	Coordination of cell growth and cell division: a mathematical modeling study. *Journal of Cell Science* , **2004**, 117, 4199-207	5.3	26
27	Intracellular Ca dynamics in ventricular fibrillation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 286, H1836-44	5.2	75
26	Dynamical effects of diffusive cell coupling on cardiac excitation and propagation: a simulation study. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H2803-12	5.2	21
25	Multisite phosphorylation and network dynamics of cyclin-dependent kinase signaling in the eukaryotic cell cycle. *Biophysical Journal*, **2004**, 86, 3432-43	2.9	40
24	A simulation study of the effects of cardiac anatomy in ventricular fibrillation. *Journal of Clinical Investigation*, **2004**, 113, 686-93	15.9	56
23	Regulation of the mammalian cell cycle: a model of the G1-to-S transition. *American Journal of Physiology - Cell Physiology*, **2003**, 284, C349-64	5.4	135
22	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	2.3	12
21	Dynamics of the cell cycle: checkpoints, sizers, and timers. *Biophysical Journal*, **2003**, 85, 3600-11	2.9	97
20	Increased vulnerability to inducible atrial fibrillation caused by partial cellular uncoupling with heptanol. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H1116-22	5.2	32
19	Electrical restitution and cardiac fibrillation. *Journal of Cardiovascular Electrophysiology*, **2002**, 13, 292-5	2.7	61
18	Electrical refractory period restitution and spiral wave reentry in simulated cardiac tissue. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H448-60	5.2	44
17	Coexistence of multiple spiral waves with independent frequencies in a heterogeneous excitable medium. *Physical Review E*, **2001**, 63, 031905	2.4	38
16	Effects of simulated ischemia on spiral wave stability. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 280, H1667-73	5.2	30
15	Electrophysiological heterogeneity and stability of reentry in simulated cardiac tissue. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 280, H535-45	5.2	61
14	Origins of spiral wave meander and breakup in a two-dimensional cardiac tissue model. *Annals of Biomedical Engineering*, **2000**, 28, 755-71	4.7	131

13	Ventricular fibrillation: how do we stop the waves from breaking?. *Circulation Research*, **2000**, 87, 1103-7	15.7	187
12	From local to global spatiotemporal chaos in a cardiac tissue model. *Physical Review E*, **2000**, 61, 727-32	2.4	38
11	Mechanisms of discordant alternans and induction of reentry in simulated cardiac tissue. *Circulation* , **2000**, 102, 1664-70	16.7	316
10	Scroll wave dynamics in a three-dimensional cardiac tissue model: roles of restitution, thickness, and fiber rotation. *Biophysical Journal*, **2000**, 78, 2761-75	2.9	128
9	Cardiac electrical restitution properties and stability of reentrant spiral waves: a simulation study. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999**, 276, H269-83	5.2	159
8	Diffusion-Induced Vortex Filament Instability in 3-Dimensional Excitable Media. *Physical Review Letters*, **1999**, 83, 2668-2671	7.4	30
7	Spatiotemporal heterogeneity in the induction of ventricular fibrillation by rapid pacing: importance of cardiac restitution properties. *Circulation Research*, **1999**, 84, 1318-31	15.7	196
6	An advanced algorithm for solving partial differential equation in cardiac conduction. *IEEE Transactions on Biomedical Engineering*, **1999**, 46, 1166-8	5	168
5	Dynamics of reentry around a circular obstacle in cardiac tissue. *Physical Review E*, **1998**, 58, 6355-6358	2.4	55
4	Role of pectinate muscle bundles in the generation and maintenance of intra-atrial reentry: potential implications for the mechanism of conversion between atrial fibrillation and atrial flutter. *Circulation Research*, **1998**, 83, 448-62	15.7	100
3	Spatiotemporal Chaos in a Simulated Ring of Cardiac Cells. *Physical Review Letters*, **1997**, 78, 1387-1390	7.4	58
2	Determinants of early afterdepolarization properties in ventricular myocyte models		1
1	Multiscale Nonlinear Dynamics in Cardiac Electrophysiology: From Sparks to Sudden Death257-275		1