

Haibo Ni

List of Publications by Year in descending order

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51
papers

778
citations

516710

16
h-index

552781

26
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56
all docs

56
docs citations

56
times ranked

869
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel 3D spatial model of mouse sinoatrial node cells for investigating impact of microstructure changes on pacemaker activity. <i>Biophysical Journal</i> , 2022, 121, 13a.	0.5	0
2	Sex-dependent differences in Ca ²⁺ -related arrhythmia revealed by human atrial myocyte models. <i>Biophysical Journal</i> , 2022, 121, 231a.	0.5	0
3	Quantifying the interactive arrhythmogenic effects of cell ultrastructural remodeling and calcium-handling protein redistribution in a three-dimensional model of the human atrial myocyte. <i>Biophysical Journal</i> , 2022, 121, 372a.	0.5	0
4	Initiation and maintenance of arrhythmogenic action potential waves near the infarct zone in heart failure. <i>Biophysical Journal</i> , 2022, 121, 89a-90a.	0.5	0
5	A circadian clock in the sinus node mediates day-night rhythms in <i>Hcn4</i> and heart rate. <i>Heart Rhythm</i> , 2021, 18, 801-810.	0.7	46
6	Pka and CaMKII Signaling Synergistically Promotes Atrial Arrhythmia in Populations of Human Atrial Tissues. <i>Biophysical Journal</i> , 2021, 120, 334a.	0.5	0
7	Quantifying the Arrhythmogenic Effects of Subcellular Structural Variations in a Three-Dimensional Model of the Human Atrial Myocyte. <i>Biophysical Journal</i> , 2021, 120, 334a.	0.5	0
8	Arrhythmogenic Crosstalk of Sodium, Calcium, Reactive Oxygen Species and Camkii Signaling in the Failing Rabbit Ventricular Myocyte - Insights from a Computational Study. <i>Biophysical Journal</i> , 2021, 120, 239a.	0.5	0
9	Sex-specific Classification of Drug-induced Torsade de Pointes Susceptibility Using Cardiac Simulations and Machine Learning. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 110, 380-391.	4.7	22
10	Intracellular Na ⁺ Modulates Pacemaking Activity in Murine Sinoatrial Node Myocytes: An In Silico Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5645.	4.1	13
11	Quantitative cross-species translators of cardiac myocyte electrophysiology: Model training, experimental validation, and applications. <i>Science Advances</i> , 2021, 7, eabg0927.	10.3	22
12	General Principles for the Validation of Proarrhythmia Risk Prediction Models: An Extension of the CiPA <i>In Silico</i> Strategy. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 102-111.	4.7	67
13	Populations of in silico myocytes and tissues reveal synergy of multiatrial $K^{sup}+$ current block in atrial fibrillation. <i>British Journal of Pharmacology</i> , 2020, 177, 4497-4515.	5.4	23
14	Effects of Ultrastructural Remodeling on Calcium Signaling and Electrophysiology in a Three-Dimensional Model of the Human Atrial Myocyte. <i>Biophysical Journal</i> , 2020, 118, 256a.	0.5	0
15	Interplay Between β^2 -Adrenergic Stimulation and CaMKII Signaling Favors Human Atrial Arrhythmogenesis: Insights from Populations of Models. <i>Biophysical Journal</i> , 2020, 118, 494a.	0.5	1
16	Quantitative Cross-Species Prediction of β^2 -Adrenergic Response in Ventricular Myocytes. <i>Biophysical Journal</i> , 2020, 118, 344a.	0.5	0
17	An audit of uncertainty in multi-scale cardiac electrophysiology models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190335.	3.4	25
18	A Machine Learning Approach for Investigating Sex Differences in Torsade De Pointes Susceptibility. <i>Biophysical Journal</i> , 2020, 118, 340a.	0.5	0

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19	SPARC: Found in translation: quantitative predictors of cardiac myocyte responses to β -adrenergic stimulation across species. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
20	Quantitative In Silico Analysis of the Arrhythmogenic CaMKII-Sodium-Calcium-CaMKII Feedback in the Failing Rabbit Ventricular Myocyte. <i>Biophysical Journal</i> , 2019, 116, 94a-95a.	0.5	0
21	ECG Imaging to Detect the Site of Ventricular Ischemia Using Torso Electrodes: A Computational Study. <i>Frontiers in Physiology</i> , 2019, 10, 50.	2.8	4
22	Novel regulation of the mammalian cardiac Na ⁺ channel by dipeptidyl peptidase 10 interactions: An editorial comment. <i>International Journal of Cardiology</i> , 2019, 284, 74-76.	1.7	1
23	Effects of Varying Transverse and Axial Tubules in a Three-Dimensional Model of Calcium Signaling in the Human Atrial Myocyte. <i>Biophysical Journal</i> , 2019, 116, 231a-232a.	0.5	1
24	Transient outward K ⁺ current can strongly modulate action potential duration and initiate alternans in the human atrium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H527-H542.	3.2	20
25	Can principles of the surface potential be combined with knowledge of natural products to reduce atrial rhythm disturbances?. <i>Acta Physiologica</i> , 2018, 222, e12918.	3.8	1
26	Effects of Modulation of Small-Conductance Calcium-Activated Potassium Current on Atrial Electrophysiology and Arrhythmogenesis: A Population-Based Computational Study. <i>Biophysical Journal</i> , 2018, 114, 473a.	0.5	1
27	Mechanistic insight into spontaneous transition from cellular alternans to arrhythmia—A simulation study. <i>PLoS Computational Biology</i> , 2018, 14, e1006594.	3.2	11
28	Human Atrial Arrhythmogenesis and Sinus Bradycardia in KCNQ1-Linked Short QT Syndrome: Insights From Computational Modelling. <i>Frontiers in Physiology</i> , 2018, 9, 1402.	2.8	39
29	A Heart for Diversity: Simulating Variability in Cardiac Arrhythmia Research. <i>Frontiers in Physiology</i> , 2018, 9, 958.	2.8	66
30	A Multiscale Investigation of Global Electrical Heterogeneity: Effects of Body Habitus, Respiration, and Tissue Conductivity. , 2018, 45, .		0
31	Optogenetic Control of Heart Rhythm by Selective Stimulation of Cardiomyocytes Derived from Pnmt ⁺ Cells in Murine Heart. <i>Scientific Reports</i> , 2017, 7, 40687.	3.3	42
32	Three-dimensional image reconstruction of distribution of Pnmt ⁺ cell-derived cells in murine heart. <i>Scientific Data</i> , 2017, 4, 170134.	5.3	7
33	In-silico investigations of the functional impact of KCNA5 mutations on atrial mechanical dynamics. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 111, 86-95.	1.9	18
34	Computational Analysis of the Mode of Action of Disopyramide and Quinidine on hERG-Linked Short QT Syndrome in Human Ventricles. <i>Frontiers in Physiology</i> , 2017, 8, 759.	2.8	51
35	Synergistic Anti-arrhythmic Effects in Human Atria with Combined Use of Sodium Blockers and Acacetin. <i>Frontiers in Physiology</i> , 2017, 8, 946.	2.8	58
36	Atrial arrhythmogenicity of KCNJ2 mutations in short QT syndrome: Insights from virtual human atria. <i>PLoS Computational Biology</i> , 2017, 13, e1005593.	3.2	51

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37	In silico assessment of genetic variation in KCNA5 reveals multiple mechanisms of human atrial arrhythmogenesis. PLoS Computational Biology, 2017, 13, e1005587.	3.2	32
38	Electro-mechanical dynamics of spiral waves in a discrete 2D model of human atrial tissue. PLoS ONE, 2017, 12, e0176607.	2.5	10
39	Comparison of Electric- and Magnetic-Cardiograms Produced by Myocardial Ischemia in Models of the Human Ventricle and Torso. PLoS ONE, 2016, 11, e0160999.	2.5	25
40	In silico investigation of short QT syndrome-linked potassium channel mutations on electro-mechanical function of human atrial cells. , 2015, , .		24
41	In silico investigation of the functional effects of KCNQ1-G269S mutation in human ventricles. , 2015, , .		0
42	Investigation of the mechanisms underlying cardiac alternans - insights from a computational study. , 2015, , .		1
43	Comparison of electric- and magnetic- cardiograms produced by myocardial ischemia in models of the human ventricle and torso. , 2015, , .		3
44	The Research Progress of Micromilling in Machining Mechanism. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2014, 50, 161.	0.5	4
45	Research on the Modeling and Experimenting of Burr Formation Process in Double-Edged Micro-Plat End Milling Operation. Materials Science Forum, 2013, 770, 248-252.	0.3	2
46	Research on the modeling of burr formation process in micro-ball end milling operation on TiAl4V. International Journal of Advanced Manufacturing Technology, 2012, 62, 901-912.	3.0	83
47	Research on the Influence Factors for the Deflection of Micro-Ball-End Cutter in Micro-End-Milling Process. Materials Science Forum, 2011, 697-698, 84-87.	0.3	2
48	Two Aspects of Cardiac Alternans: Difference and Correlation Between Them. , 0, , .		1
49	Synergistic Anti:arrhythmic Effects of Combined Blockade of Sodium and Ultra:rapid Delayed Rectifier Potassium Channels in Human Atria. , 0, , .		0
50	Modelling the Effects of Disopyramide on Short QT Syndrome Variant 1 in the Human Ventricles. , 0, , .		0
51	In Silico Investigation of the Functional Impact of SCN10A Mutations in Human Atrial Cells. , 0, , .		0