

# Zhen Song

## List of Publications by Year in descending order

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25  
papers

624  
citations

687363

13  
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610901

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29  
docs citations

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times ranked

675  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium-Voltage Coupling in the Genesis of Early and Delayed Afterdepolarizations in Cardiac Myocytes. <i>Biophysical Journal</i> , 2015, 108, 1908-1921.	0.5	94
2	Molecular Basis of Hypokalemia-Induced Ventricular Fibrillation. <i>Circulation</i> , 2015, 132, 1528-1537.	1.6	87
3	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
4	T-tubule disruption promotes calcium alternans in failing ventricular myocytes: Mechanistic insights from computational modeling. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 79, 32-41.	1.9	50
5	Mitochondrial Ca <sup>2+</sup> Influx Contributes to Arrhythmic Risk in Nonischemic Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	38
6	Transverse tubular network structures in the genesis of intracellular calcium alternans and triggered activity in cardiac cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 114, 288-299.	1.9	31
7	Stochastic initiation and termination of calcium-mediated triggered activity in cardiac myocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E270-E279.	7.1	26
8	New experimental evidence for mechanism of arrhythmogenic membrane potential alternans based on balance of electrogenic INCX/ICa currents. <i>Heart Rhythm</i> , 2012, 9, 1698-1705.	0.7	25
9	Long-Lasting Sparks: Multi-Metastability and Release Competition in the Calcium Release Unit Network. <i>PLoS Computational Biology</i> , 2016, 12, e1004671.	3.2	25
10	Spatially Discordant Alternans and Arrhythmias in Tachypacing-Induced Cardiac Myopathy in Transgenic LQT1 Rabbits: The Importance of IKs and Ca <sup>2+</sup> Cycling. <i>PLoS ONE</i> , 2015, 10, e0122754.	2.5	23
11	Determinants of early afterdepolarization properties in ventricular myocyte models. <i>PLoS Computational Biology</i> , 2018, 14, e1006382.	3.2	23
12	Acute reversal of phospholamban inhibition facilitates the rhythmic whole-cell propagating calcium waves in isolated ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 80, 126-135.	1.9	16
13	A Dynamical Threshold for Cardiac Delayed Afterdepolarization-Mediated Triggered Activity. <i>Biophysical Journal</i> , 2016, 111, 2523-2533.	0.5	16
14	Mechanisms of Premature Ventricular Complexes Caused by QT Prolongation. <i>Biophysical Journal</i> , 2021, 120, 352-369.	0.5	14
15	Spatially Discordant Repolarization Alternans in the Absence of Conduction Velocity Restitution. <i>Biophysical Journal</i> , 2020, 118, 2574-2587.	0.5	13
16	Mechanisms of Arrhythmogenicity of Hypertrophic Cardiomyopathy-Associated Troponin T (TNNT2) Variant I79N. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 787581.	3.7	13
17	Multiscale Determinants of Delayed Afterdepolarization Amplitude in Cardiac Tissue. <i>Biophysical Journal</i> , 2017, 112, 1949-1961.	0.5	12
18	Activation of TRPC (Transient Receptor Potential Canonical) Channel Currents in Iron Overloaded Cardiac Myocytes. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e009291.	4.8	11

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19	A Spatiotemporal Ventricular Myocyte Model Incorporating Mitochondrial Calcium Cycling. <i>Biophysical Journal</i> , 2019, 117, 2349-2360.	0.5	10
20	Small-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channels promote J-wave syndrome and phase 2 reentry. <i>Heart Rhythm</i> , 2020, 17, 1582-1590.	0.7	8
21	Delayed global feedback in the genesis and stability of spatiotemporal excitation patterns in paced biological excitable media. <i>PLoS Computational Biology</i> , 2020, 16, e1007931.	3.2	7
22	Mitochondrial depolarization promotes calcium alternans: Mechanistic insights from a ventricular myocyte model. <i>PLoS Computational Biology</i> , 2021, 17, e1008624.	3.2	4
23	Mitochondrial Contributions in the Genesis of Delayed Afterdepolarizations in Ventricular Myocytes. <i>Frontiers in Physiology</i> , 2021, 12, 744023.	2.8	4
24	Stability of spatially discordant repolarization alternans in cardiac tissue. <i>Chaos</i> , 2020, 30, 123141.	2.5	3
25	Complex Early and Delayed Afterdepolarization Dynamics caused by Voltage-Calcium Coupling in Cardiac Myocytes. <i>Biophysical Journal</i> , 2015, 108, 261a-262a.	0.5	1