

Andrew G Edwards

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

518
citations

759233

12
h-index

839539

18
g-index

19
all docs

19
docs citations

19
times ranked

599
citing authors

#	ARTICLE	IF	CITATIONS
1	Arrhythmogenic influence of mutations in a myocyte-based computational model of the pulmonary vein sleeve. <i>Scientific Reports</i> , 2022, 12, 7040.	3.3	4
2	Metabolically driven maturation of human-induced-pluripotent-stem-cell-derived cardiac microtissues on microfluidic chips. <i>Nature Biomedical Engineering</i> , 2022, 6, 372-388.	22.5	42
3	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
4	In vitro safety –clinical trial– of the cardiac liability of drug polytherapy. <i>Clinical and Translational Science</i> , 2021, 14, 1155-1165.	3.1	11
5	A computational method for identifying an optimal combination of existing drugs to repair the action potentials of SQT1 ventricular myocytes. <i>PLoS Computational Biology</i> , 2021, 17, e1009233.	3.2	5
6	Heart Muscle Microphysiological System for Cardiac Liability Prediction of Repurposed COVID-19 Therapeutics. <i>Frontiers in Pharmacology</i> , 2021, 12, 684252.	3.5	12
7	Quantitative cross-species translators of cardiac myocyte electrophysiology: Model training, experimental validation, and applications. <i>Science Advances</i> , 2021, 7, eabg0927.	10.3	22
8	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
9	Populations of in silico myocytes and tissues reveal synergy of multiatrial –predominant K ⁺ –current block in atrial fibrillation. <i>British Journal of Pharmacology</i> , 2020, 177, 4497-4515.	5.4	23
10	Hypokalemia Promotes Arrhythmia by Distinct Mechanisms in Atrial and Ventricular Myocytes. <i>Circulation Research</i> , 2020, 126, 889-906.	4.5	31
11	Biophysical Psychiatry –How Computational Neuroscience Can Help to Understand the Complex Mechanisms of Mental Disorders. <i>Frontiers in Psychiatry</i> , 2019, 10, 534.	2.6	19
12	Properties of cardiac conduction in a cell-based computational model. <i>PLoS Computational Biology</i> , 2019, 15, e1007042.	3.2	44
13	Inversion and computational maturation of drug response using human stem cell derived cardiomyocytes in microphysiological systems. <i>Scientific Reports</i> , 2018, 8, 17626.	3.3	41
14	Computational Modeling of Electrophysiology and Pharmacotherapy of Atrial Fibrillation: Recent Advances and Future Challenges. <i>Frontiers in Physiology</i> , 2018, 9, 1221.	2.8	41
15	Species-Dependent Mechanisms of Cardiac Arrhythmia: A Cellular Focus. <i>Clinical Medicine Insights: Cardiology</i> , 2017, 11, 117954681668606.	1.8	64
16	Computing rates of Markov models of voltage-gated ion channels by inverting partial differential equations governing the probability density functions of the conducting and non-conducting states. <i>Mathematical Biosciences</i> , 2016, 277, 126-135.	1.9	12
17	Toward a hierarchy of mechanisms in CaMKII-mediated arrhythmia. <i>Frontiers in Pharmacology</i> , 2014, 5, 110.	3.5	15
18	Nonequilibrium Reactivation of Na ⁺ Current Drives Early Afterdepolarizations in Mouse Ventricle. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014, 7, 1205-1213.	4.8	42