

# Andrew G Edwards

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9590570/publications.pdf>

Version: 2024-02-01

18  
papers

518  
citations

758635

12  
h-index

839053

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

599  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.3	67
2	Species-Dependent Mechanisms of Cardiac Arrhythmia: A Cellular Focus. <i>Clinical Medicine Insights: Cardiology</i> , 2017, 11, 117954681668606.	0.6	64
3	Properties of cardiac conduction in a cell-based computational model. <i>PLoS Computational Biology</i> , 2019, 15, e1007042.	1.5	44
4	Nonequilibrium Reactivation of Na <sup>+</sup> Current Drives Early Afterdepolarizations in Mouse Ventricle. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014, 7, 1205-1213.	2.1	42
5	Metabolically driven maturation of human-induced-pluripotent-stem-cell-derived cardiac microtissues on microfluidic chips. <i>Nature Biomedical Engineering</i> , 2022, 6, 372-388.	11.6	42
6	Inversion and computational maturation of drug response using human stem cell derived cardiomyocytes in microphysiological systems. <i>Scientific Reports</i> , 2018, 8, 17626.	1.6	41
7	Computational Modeling of Electrophysiology and Pharmacotherapy of Atrial Fibrillation: Recent Advances and Future Challenges. <i>Frontiers in Physiology</i> , 2018, 9, 1221.	1.3	41
8	Hypokalemia Promotes Arrhythmia by Distinct Mechanisms in Atrial and Ventricular Myocytes. <i>Circulation Research</i> , 2020, 126, 889-906.	2.0	31
9	Populations of <i>in silico</i> myocytes and tissues reveal synergy of multiatrial $K^{+}$ current block in atrial fibrillation. <i>British Journal of Pharmacology</i> , 2020, 177, 4497-4515.	2.7	23
10	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.	2.3	22
11	Quantitative cross-species translators of cardiac myocyte electrophysiology: Model training, experimental validation, and applications. <i>Science Advances</i> , 2021, 7, eabg0927.	4.7	22
12	Biophysical Psychiatry—How Computational Neuroscience Can Help to Understand the Complex Mechanisms of Mental Disorders. <i>Frontiers in Psychiatry</i> , 2019, 10, 534.	1.3	19
13	Toward a hierarchy of mechanisms in CaMKII-mediated arrhythmia. <i>Frontiers in Pharmacology</i> , 2014, 5, 110.	1.6	15
14	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.	0.9	12
15	Heart Muscle Microphysiological System for Cardiac Liability Prediction of Repurposed COVID-19 Therapeutics. <i>Frontiers in Pharmacology</i> , 2021, 12, 684252.	1.6	12
16	In vitro safety $\rightarrow$ clinical trial $\leftarrow$ of the cardiac liability of drug polytherapy. <i>Clinical and Translational Science</i> , 2021, 14, 1155-1165.	1.5	11
17	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.	1.5	5
18	Arrhythmogenic influence of mutations in a myocyte-based computational model of the pulmonary vein sleeve. <i>Scientific Reports</i> , 2022, 12, 7040.	1.6	4