Massimiliano Zaniboni

List of Publications by Year
in descending order

29 papers	771 citations	516710 16 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	1047 citing authors

#	Article	IF	Citations
1	Beat-to-beat repolarization variability in ventricular myocytes and its suppression by electrical coupling. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H677-H687.	3.2	148
2	Titanium dioxide nanoparticles promote arrhythmias via a direct interaction with rat cardiac tissue. Particle and Fibre Toxicology, 2014, 11, 63.	6.2	76
3	Modelling intracellular H+ ion diffusion. Progress in Biophysics and Molecular Biology, 2003, 83, 69-100.	2.9	55
4	Intracellular proton mobility and buffering power in cardiac ventricular myocytes from rat, rabbit, and guinea pig. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H1236-H1246.	3.2	51
5	The restriction of diffusion of cations at the external surface of cardiac myocytes varies between species. Cell Calcium, 1997, 22, 431-438.	2.4	44
6	Myocardial remodeling and arrhythmogenesis in moderate cardiac hypertrophy in rats. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H142-H150.	3.2	44
7	Cell-to-Cell Electrical Interactions During Early and Late Repolarization. Journal of Cardiovascular Electrophysiology, 2006, 17, S8-S14.	1.7	44
8	Correlation of Î±-skeletal actin expression, ventricular fibrosis and heart function with the degree of pressure overload cardiac hypertrophy in rats. Experimental Physiology, 2006, 91, 571-580.	2.0	36
9	How different two almost identical action potentials can be: A model study on cardiac repolarization. Mathematical Biosciences, 2010, 228, 56-70.	1.9	36
10	Proton Permeation Through the Myocardial Gap Junction. Circulation Research, 2003, 93, 726-735.	4.5	30
11	Bronchodilator Activity of (3<i>R</i>)-3-[[[(3-fluorophenyl)[(3,4,5-trifluorophenyl)methyl]amino]carbonyl]oxy]-1-[2-oxo-2-(2-thienyl)ethyl]-1-azoniabicyclo[2.2.2]octane bromide (CHF5407), a Potent, Long-Acting, and Selective Muscarinic M3 Receptor Antagonist. Journal of Pharmacology and Experimental Therapeutics, 2010, 335, 622-635.	2.5	27
12	Temporal variability of repolarization in rat ventricular myocytes paced with time-varying frequencies. Experimental Physiology, 2007, 92, 859-869.	2.0	25
13	Cobalt oxide nanoparticles induce oxidative stress and alter electromechanical function in rat ventricular myocytes. Particle and Fibre Toxicology, 2021, 18, 1.	6.2	21
14	3D currentâ€“voltageâ€“time surfaces unveil critical repolarization differences underlying similar cardiac action potentials: A model study. Mathematical Biosciences, 2011, 233, 98-110.	1.9	20
15	Beat-to-Beat Cycle Length Variability of Spontaneously Beating Guinea Pig Sinoatrial Cells: Relative Contributions of the Membrane and Calcium Clocks. PLoS ONE, 2014, 9, e100242.	2.5	20
16	Effect of Input Resistance Voltage-Dependency on DC Estimate of Membrane Capacitance in Cardiac Myocytes. Biophysical Journal, 2005, 89, 2170-2181.	0.5	18
17	Parenchymal and Stromal Cells Contribute to Pro-Inflammatory Myocardial Environment at Early Stages of Diabetes: Protective Role of Resveratrol. Nutrients, 2016, 8, 729.	4.1	14
18	Complications Associated with Rapid Caffeine Application to Cardiac Myocytes that are not Voltage Clamped. Journal of Molecular and Cellular Cardiology, 1998, 30, 2229-2235.	1.9	10

#	Article	IF	Citations
19	Short-term action potential memory and electrical restitution: A cellular computational study on the stability of cardiac repolarization under dynamic pacing. PLoS ONE, 2018, 13, e0193416.	2.5	10
20	Late Phase of Repolarization is Autoregenerative and Scales Linearly with Action Potential Duration in Mammals Ventricular Myocytes: A Model Study. IEEE Transactions on Biomedical Engineering, 2012, 59, 226-233.	4.2	9
21	Vulnerability to ventricular arrhythmias and heterogeneity of action potential duration in normal rats. Experimental Physiology, 2004, 89, 387-396.	2.0	6
22	Effects of the ??2-Adrenergic/DA2-Dopaminergic Agonist CHF-1024 in Preventing Ventricular Arrhythmogenesis and Myocyte Electrical Remodeling, in a Rat Model of Pressure-Overload Cardiac Hypertrophy. Journal of Cardiovascular Pharmacology, 2006, 47, 295-302.	1.9	6
23	Heterogeneity of Intrinsic Repolarization Properties Within the Human Heart: New Insights From Simulated Three-Dimensional Current Surfaces. IEEE Transactions on Biomedical Engineering, 2012, 59, 2372-2380.	4.2	5
24	Restitution and Stability of Human Ventricular Action Potential at High and Variable Pacing Rate. Biophysical Journal, 2019, 117, 2382-2395.	0.5	5
25	Chronotropic Modulation of the Source-Sink Relationship of Sinoatrial-Atrial Impulse Conduction and Its Significance to Initiation of AF: A One-Dimensional Model Study. BioMed Research International, 2015, 2015, 1-18.	1.9	4
26	Restitution and adaptation measurements for the estimate of short-term cardiac action potential memory: comparison of five human ventricular models. Europace, 2019, 21, 1594-1602.	1.7	4
27	Ventricular Repolarization and Calcium Transient Show Resonant Behavior under Oscillatory Pacing Rate. Biomolecules, 2022, 12, 873.	4.0	2
28	Instantaneous currentâ€“voltage relationships during the course of the human cardiac ventricular action potential: new computational insights into repolarization dynamics. Europace, 2014, 16, 774-784.	1.7	1
29	A protocol combining current- and voltage-clamp provides a novel and useful three-dimensional representation of cardiac action potential. Journal of Biological Research (Italy), 2014, 87, .	0.1	0