Rosana Almada Bassani

List of Publications by Year
in descending order

73 papers	2,489 citations	304602 22 h-index	197736 49 g-index
76 all docs	76 docs citations	76 times ranked	2255 citing authors

#	Article	IF	Citations
1	Developmental differences in myocardial transmembrane Na ⁺ transport: implications for excitability and Na ⁺ handling. Journal of Physiology, 2022, , .	1.3	1
2	The ForceLAB simulator: Application to the comparison of current models of cardiomyocyte contraction. Computers in Biology and Medicine, 2021, 131, 104240.	3.9	1
3	Impact of voltage-gated Naâ€¯+â€¯channel biophysical properties on action potential upstroke. Journal of Molecular and Cellular Cardiology, 2020, 140, 48-49.	0.9	0
4	Accuracy of electromagnetic models to estimate cardiomyocyte membrane polarization. Medical and Biological Engineering and Computing, 2019, 57, 2617-2627.	1.6	6
5	BugHeart: software for online monitoring and quantitation of contractile activity of the insect heart. Research on Biomedical Engineering, 2019, 35, 235-240.	1.5	0
6	High Thyrotropin Is Critical for Cardiac Electrical Remodeling and Arrhythmia Vulnerability in Hypothyroidism. Thyroid, 2019, 29, 934-945.	2.4	17
7	Sources of Ca2+ for contraction of the heart tube of Tenebrio molitor (Coleoptera: Tenebrionidae). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2018, 188, 929-937.	0.7	2
8	Application based on the Canny edge detection algorithm for recording contractions of isolated cardiac myocytes. Computers in Biology and Medicine, 2017, 81, 106-110.	3.9	18
9	System for open-chest, multidirectional electrical defibrillation. Research on Biomedical Engineering, 2016, 32, 74-84.	1.5	4
10	Macrophage-dependent IL-1Î² production induces cardiac arrhythmias in diabetic mice. Nature Communications, 2016, 7, 13344.	5.8	203
11	Chasing cardiac physiology and pathology down the CaMKII cascade. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1177-H1191.	1.5	78
12	Electrocardiogram, heart movement and heart rate in the awake gecko (Hemidactylus mabouia). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 111-118.	0.7	7
13	Atrial chronotropic reactivity to catecholamines in neonatal rats: Contribution of Î²-adrenoceptor subtypes. European Journal of Pharmacology, 2015, 764, 385-394.	1.7	4
14	Testing electrode suitability for field stimulation of high-threshold biological preparations. Research on Biomedical Engineering, 2015, 31, 273-276.	1.5	4
15	Medical equipment classification according to corrective maintenance data: a strategy based on the equipment age. Revista Brasileira De Engenharia Biomedica, 2014, 30, 64-69.	0.3	2
16	Rapidly switching multidirectional defibrillation: Reversal of ventricular fibrillation with lower energy shocks. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 3213-3218.	0.4	6
17	Functionally Isolated Sarcoplasmic Reticulum Model: Intrinsic Regulation of SR Ca2+ Release and Tetracaine Effect. Biophysical Journal, 2014, 106, 114a.	0.2	0
18	Toll-like receptor 4 activation promotes cardiac arrhythmias by decreasing the transient outward potassium current (Ito) through an IRF3-dependent and MyD88-independent pathway. Journal of Molecular and Cellular Cardiology, 2014, 76, 116-125.	0.9	42

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19	Doxorubicin Stimulates the Na+/Ca2+ Exchanger in Ventricular Cardiomyocytes. Biophysical Journal, 2014, 106, 531a.	0.2	0
20	Muscarinic stimulation and pinacidil produce similar facilitation of tachyarrhythmia induction in rat isolated atria. Journal of Molecular and Cellular Cardiology, 2013, 65, 120-126.	0.9	2
21	Working out the heart: Functional remodeling by endurance exercise training. Journal of Molecular and Cellular Cardiology, 2013, 60, 47-49.	0.9	0
22	Greater Cardiac Cell Excitation Efficiency With Rapidly Switching Multidirectional Electrical Stimulation. IEEE Transactions on Biomedical Engineering, 2013, 60, 28-34.	2.5	13
23	Blood Calcium Levels in Immature Rats: Influence of Extracellular Calcium Concentration on Myocardial Calcium Handling. Experimental Animals, 2012, 61, 399-405.	0.7	5
24	Transthoracic cardiac ultrasonic stimulation induces a negative chronotropic effect. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2655-61.	1.7	13
25	Estimation of the fractional sarcoplasmic reticulum Ca2+ release in intact cardiomyocytes using integrated Ca2+ fluxes. General Physiology and Biophysics, 2012, 31, 401-408.	0.4	6
26	Medical equipment classification: method and decision-making support based on paraconsistent annotated logic. Medical and Biological Engineering and Computing, 2012, 50, 395-402.	1.6	16
27	The influence of cell dimensions on the vulnerability of ventricular myocytes to lethal injury by high-intensity electrical fields. Revista Brasileira De Engenharia Biomedica, 2012, 28, 337-345.	0.3	5
28	Functional antagonism of Î²â€adrenoceptor subtypes in the catecholamineâ€induced automatism in rat myocardium. British Journal of Pharmacology, 2011, 162, 1314-1325.	2.7	8
29	Pacemaker activity in the insect (T. molitor) heart: role of the sarcoplasmic reticulum. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1838-R1845.	0.9	11
30	Modeling, Construction and Characterization of a 66-kHz Ultrasound Transducer for Cardiac Experimentation. , 2011, , .		0
31	Increased spontaneous activity and reduced inotropic response to catecholamines in ventricular myocytes from footshock-stressed rats. Stress, 2010, 13, 73-82.	0.8	20
32	Determination of the vectorelectrogram in isolated rat atria: application to the study of arrhythmias. Physiological Measurement, 2009, 30, 1281-1291.	1.2	2
33	Negative Relationship Between Fractional SR Ca2+ Release and Stimulation Rate. Biophysical Journal, 2009, 96, 11a.	0.2	0
34	More Effective and Safer Cardiac Electric Stimulation Using Multidirectional and Biphasic Stimuli. Biophysical Journal, 2009, 96, 260a.	0.2	0
35	Lethal Effect of Electric Fields on Isolated Ventricular Myocytes. IEEE Transactions on Biomedical Engineering, 2008, 55, 2635-2642.	2.5	38
36	Sarcoplasmic reticulum Ca2+ release channel complex and automatism: A matter of fine tuning. Cardiovascular Research, 2007, 75, 7-9.	1.8	2

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37	Osmolality- and Na+-dependent effects of hyperosmotic NaCl solution on contractile activity and Ca2+ cycling in rat ventricular myocytes. Pflugers Archiv European Journal of Physiology, 2007, 455, 617-626.	1.3	5
38	Calcium release and uptake from the cardiac sarcoplasmic reticulum: Experimental and mathematical models. IFMBE Proceedings, 2007, , 992-995.	0.2	0
39	Transient outward potassium current and Ca2+ homeostasis in the heart: beyond the action potential. Brazilian Journal of Medical and Biological Research, 2006, 39, 393-403.	0.7	26
40	Combining stimulus direction and waveform for optimization of threshold stimulation of isolated ventricular myocytes. Physiological Measurement, 2006, 27, 851-863.	1.2	12
41	Enhanced calcium mobilization in rat ventricular myocytes during the onset of pressure overload-induced hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1803-H1813.	1.5	26
42	SERCA upregulation: Breaking the positive feedback in heart failure?. Cardiovascular Research, 2005, 67, 581-582.	1.8	8
43	Action potential duration determines sarcoplasmic reticulum Ca2+reloading in mammalian ventricular myocytes. Journal of Physiology, 2004, 559, 593-609.	1.3	45
44	Cholinergic?adrenergic antagonism in the induction of tachyarrhythmia by electrical stimulation in isolated rat atria*1. Journal of Molecular and Cellular Cardiology, 2004, 37, 127-135.	0.9	9
45	Subsensitivity to beta-adrenergic stimulation in atria from rats infested with Syphacia sp.. Laboratory Animals, 2003, 37, 63-67.	0.5	3
46	Inhibition of the sarcoplasmic reticulum Ca2+ pump with thapsigargin to estimate the contribution of Na+-Ca2+ exchange to ventricular myocyte relaxation. Brazilian Journal of Medical and Biological Research, 2003, 36, 1717-1723.	0.7	3
47	Contribution of Ca²⁺transporters to relaxation in intact ventricular myocytes from developing rats. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H2406-H2413.	1.5	23
48	Rest-dependence of Twitch Amplitude and Sarcoplasmic Reticulum Calcium Content in the Developing Rat Myocardium. Journal of Molecular and Cellular Cardiology, 2001, 33, 711-722.	0.9	16
49	Electric field stimulation of cardiac myocytes during postnatal development. IEEE Transactions on Biomedical Engineering, 2001, 48, 630-636.	2.5	18
50	Effect of ryanodine on sinus node recovery time determined in vitro. Brazilian Journal of Medical and Biological Research, 1999, 32, 1039-1043.	0.7	5
51	Role of Acetylcholine in Electrical Stimulation-Induced Arrhythmia in Rat Isolated Atria. Journal of Cardiovascular Pharmacology, 1999, 34, 475-479.	0.8	9
52	Measuring [Ca2+] with fluorescent indicators: theoretical approach to the ratio method. Cell Calcium, 1998, 24, 17-26.	1.1	13
53	Passive Ca2+ binding in ventricular myocardium of neonatal and adult rats. Cell Calcium, 1998, 23, 433-442.	1.1	31
54	Changes in Calcium Uptake Rate by Rat Cardiac Mitochondria during Postnatal Development. Journal of Molecular and Cellular Cardiology, 1998, 30, 2013-2023.	0.9	19

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55	Ca flux, contractility, and excitation-contraction coupling in hypertrophic rat ventricular myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H1348-H1360.	1.5	47
56	Na-Ca Exchange and Ca Fluxes during Contraction and Relaxation in Mammalian Ventricular Musclea. Annals of the New York Academy of Sciences, 1996, 779, 430-442.	1.8	109
57	Relaxation in ferret ventricular myocytes: role of the sarcolemmal Ca ATPase. Pflugers Archiv European Journal of Physiology, 1995, 430, 573-578.	1.3	65
58	Calibration of indo-1 and resting intracellular [Ca]i in intact rabbit cardiac myocytes. Biophysical Journal, 1995, 68, 1453-1460.	0.2	173
59	Rate of diastolic Ca release from the sarcoplasmic reticulum of intact rabbit and rat ventricular myocytes. Biophysical Journal, 1995, 68, 2015-2022.	0.2	78
60	Na-Ca Exchange is Required for Rest-decay but not for Rest-potential of Twitches in Rabbit and Rat Ventricular Myocytes. Journal of Molecular and Cellular Cardiology, 1994, 26, 1335-1347.	0.9	72
61	Relaxation in rabbit and rat cardiac cells: speciesâ€dependent differences in cellular mechanisms.. Journal of Physiology, 1994, 476, 279-293.	1.3	578
62	Relaxation in ferret ventricular myocytes: unusual interplay among calcium transport systems.. Journal of Physiology, 1994, 476, 295-308.	1.3	62
63	Effects of escapable and inescapable foot-shock on rat atrial Î²-adrenoceptors. Pharmacology Biochemistry and Behavior, 1993, 44, 869-875.	1.3	7
64	Paradoxical Twitch Potentiation After Rest in Cardiac Muscle: Increased Fractional Release of SR Calcium. Journal of Molecular and Cellular Cardiology, 1993, 25, 1047-1057.	0.9	81
65	Ca2+ cycling between sarcoplasmic reticulum and mitochondria in rabbit cardiac myocytes.. Journal of Physiology, 1993, 460, 603-621.	1.3	67
66	Competition and redistribution among calcium transport systems in rabbit cardiac myocytes. Cardiovascular Research, 1993, 27, 1772-1777.	1.8	72
67	Mitochondrial and sarcolemmal Ca2+ transport reduce [Ca2+]i during caffeine contractures in rabbit cardiac myocytes.. Journal of Physiology, 1992, 453, 591-608.	1.3	209
68	Competition of Ca transporters in relaxation of rabbit ventricular myocytes and Ca redistribution from mitochondria to SR during rest. Journal of Molecular and Cellular Cardiology, 1992, 24, 23.	0.9	0
69	Reduced responsiveness to noradrenaline in isolated rat atria exposed to hyperosmotic solutions. General Pharmacology, 1991, 22, 151-157.	0.7	2
70	Inotropic effect of hyperosmotic NaCl solutions on the isolated rat cardiac tissue. Archives Internationales De Physiologie Et De Biochimie, 1990, 98, 397-402.	0.2	5
71	Methodology and instrumentation for the in vitro sinus node recovery time determination. Journal of Pharmacological Methods, 1990, 23, 117-127.	0.7	3
72	Supersensitivity to isoprenaline and epinephrine in right atria isolated from rats submitted to a single swimming session. General Pharmacology, 1988, 19, 129-135.	0.7	24

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73	Subsensitivity to Î²-adrenoceptor agonists in right atria isolated from footshock-stressed rats. General Pharmacology, 1987, 18, 473-477.	0.7	24