

Philippe Comtois

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,316
citations

516215

16
h-index

552369

26
g-index

34
all docs

34
docs citations

34
times ranked

1669
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an open hardware bioreactor for optimized cardiac cell culture integrating programmable mechanical and electrical stimulations. <i>AIP Advances</i> , 2020, 10, 035133.	0.6	2
2	In silico study of multicellular automaticity of heterogeneous cardiac cell monolayers: Effects of automaticity strength and structural linear anisotropy. <i>PLoS Computational Biology</i> , 2018, 14, e1005978.	1.5	1
3	Rate-Dependent Role of I_{Kur} in Human Atrial Repolarization and Atrial Fibrillation Maintenance. <i>Biophysical Journal</i> , 2017, 112, 1997-2010.	0.2	18
4	Noise-induced effects on multicellular biopacemaker spontaneous activity: Differences between weak and strong pacemaker cells. <i>Chaos</i> , 2017, 27, 093927.	1.0	3
5	Effects of membrane noise on cardiac excitable model pacemaking activity. , 2016, , .		1
6	Spatiotemporal Stability of Neonatal Rat Cardiomyocyte Monolayers Spontaneous Activity Is Dependent on the Culture Substrate. <i>PLoS ONE</i> , 2015, 10, e0127977.	1.1	17
7	Wavelet analysis of cardiac optical mapping data. <i>Computers in Biology and Medicine</i> , 2015, 65, 243-255.	3.9	17
8	Potassium Channel Blockade Enhances Atrial Fibrillation—Selective Antiarrhythmic Effects of Optimized State-Dependent Sodium Channel Blockade. <i>Circulation</i> , 2015, 132, 2203-2211.	1.6	41
9	Multicellular automaticity of cardiac cell monolayers: effects of density and spatial distribution of pacemaker cells. <i>New Journal of Physics</i> , 2014, 16, 113046.	1.2	6
10	Atrial Fibrillation Promotion With Long-Term Repetitive Obstructive Sleep Apnea in a Rat Model. <i>Journal of the American College of Cardiology</i> , 2014, 64, 2013-2023.	1.2	172
11	Induced KCNQ1 autoimmunity accelerates cardiac repolarization in rabbits: Potential significance in arrhythmogenesis and antiarrhythmic therapy. <i>Heart Rhythm</i> , 2014, 11, 2092-2100.	0.3	25
12	New insights on endothelial CaMKII in angiotensin II-induced hypertension (851.6). <i>FASEB Journal</i> , 2014, 28, 851.6.	0.2	0
13	Comparisons of Substrates Responsible for Atrial Versus Ventricular Fibrillation. , 2013, , 333-352.		0
14	In Silico Optimization of Atrial Fibrillation-Selective Sodium Channel Blocker Pharmacodynamics. <i>Biophysical Journal</i> , 2012, 102, 951-960.	0.2	25
15	Atrial Repolarization Alternans as a Path to Atrial Fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2012, 23, 1013-1015.	0.8	18
16	Fluorescence-based system for measurement of electrophysiological changes in stretched cultured cardiomyocytes. , 2011, 2011, 35-8.		1
17	Differential effectiveness of pharmacological strategies to reveal dormant pulmonary vein conduction: A clinical-experimental correlation. <i>Heart Rhythm</i> , 2011, 8, 1426-1433.	0.3	52
18	Impact of tissue geometry on simulated cholinergic atrial fibrillation: A modeling study. <i>Chaos</i> , 2011, 21, 013108.	1.0	16

#	ARTICLE	IF	CITATIONS
19	Mechanisms of Atrial Tachyarrhythmias Associated With Coronary Artery Occlusion in a Chronic Canine Model. <i>Circulation</i> , 2011, 123, 137-146.	1.6	151
20	Interactions between cardiac fibrosis spatial pattern and ionic remodeling on electrical wave propagation. , 2011, 2011, 4669-72.		21
21	Mechanisms by Which Adenosine Restores Conduction in Dormant Canine Pulmonary Veins. <i>Circulation</i> , 2010, 121, 963-972.	1.6	183
22	Changes in Connexin Expression and the Atrial Fibrillation Substrate in Congestive Heart Failure. <i>Circulation Research</i> , 2009, 105, 1213-1222.	2.0	178
23	Differences in atrial fibrillation properties under vagal nerve stimulation versus atrial tachycardia remodeling. <i>Heart Rhythm</i> , 2009, 6, 1465-1472.	0.3	25
24	Pulmonary Vein Region Ablation in Experimental Vagal Atrial Fibrillation. <i>Circulation</i> , 2008, 117, 470-477.	1.6	196
25	Mechanisms of atrial fibrillation termination by rapidly unbinding Na ⁺ channel blockers: insights from mathematical models and experimental correlates. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H1489-H1504.	1.5	63
26	Comparisons of Substrates Responsible for Atrial Versus Ventricular Fibrillation. , 2008, , 261-280.		1
27	Teasing out circadian variability in heart rate turbulence: A new approach to detecting biorhythms underlying cardiac function. <i>Heart Rhythm</i> , 2007, 4, 301-303.	0.3	1
28	P6-27. <i>Heart Rhythm</i> , 2006, 3, S310.	0.3	0
29	Multistability of reentrant rhythms in an ionic model of a two-dimensional annulus of cardiac tissue. <i>Physical Review E</i> , 2005, 72, 051927.	0.8	17
30	Wave block formation in homogeneous excitable media following premature excitations: Dependence on restitution relations. <i>Physical Review E</i> , 2005, 72, 031919.	0.8	21
31	Stability and bifurcation in an integral-delay model of cardiac reentry including spatial coupling in repolarization. <i>Physical Review E</i> , 2003, 68, 051903.	0.8	19
32	Resetting and annihilation of reentrant activity in a model of a one-dimensional loop of ventricular tissue. <i>Chaos</i> , 2002, 12, 903-922.	1.0	21