Vincent Jacquemet

List of Publications by Year
in descending order

58 papers	1,524 citations	304368 22 h-index	315357 38 g-index
60 all docs	60 docs citations	60 times ranked	1319 citing authors

#	Article	IF	Citations
1	Acute effect of passive heat exposure on markers of cardiometabolic function in adults with type 2 diabetes mellitus. Journal of Applied Physiology, 2022, 132, 1154-1166.	1.2	4
2	OUP accepted manuscript. European Journal of Preventive Cardiology, 2022, , .	0.8	5
3	Simulation of atrial fibrillation in a non-ohmic propagation model with dynamic gap junctions. Chaos, 2022, 32, 043113.	1.0	3
4	Amphetamine maintenance therapy during intermittent cocaine self-administration in rats attenuates psychomotor and dopamine sensitization and reduces addiction-like behavior. Neuropsychopharmacology, 2021, 46, 305-315.	2.8	14
5	Simulation of diffuse and stringy fibrosis in a bilayer interconnected cable model of the left atrium. Europace, 2021, 23, i169-i177.	0.7	6
6	Multiparameter optimization of nonuniform passive diffusion properties for creating coarse-grained equivalent models of cardiac propagation. Computers in Biology and Medicine, 2021, 138, 104863.	3.9	2
7	Time resolution for wavefront and phase singularity tracking using activation maps in cardiac propagation models. Chaos, 2020, 30, 033132.	1.0	3
8	Observations on changes in ventricular repolarization following four weeks of exercise training in chronic heart failure patients. Scandinavian Cardiovascular Journal, 2020, 54, 369-375.	0.4	1
9	Visualization of interpolated atrial fiber orientation using evenly-spaced streamlines. Computers in Biology and Medicine, 2019, 111, 103349.	3.9	8
10	Clinical applications of QT / RR hysteresis assessment: AÂsystematic review. Annals of Noninvasive Electrocardiology, 2018, 23, .	0.5	24
11	Simulated P wave morphology in the presence of endo-epicardial activation delay. Europace, 2018, 20, iii16-iii25.	0.7	2
12	Phase singularity detection through phase map interpolation: Theory, advantages and limitations. Computers in Biology and Medicine, 2018, 102, 381-389.	3.9	7
13	In silico study of multicellular automaticity of heterogeneous cardiac cell monolayers: Effects of automaticity strength and structural linear anisotropy. PLoS Computational Biology, 2018, 14, e1005978.	1.5	1
14	Fitting local repolarization parameters in cardiac reaction-diffusion models in the presence of electrotonic coupling. Computers in Biology and Medicine, 2017, 81, 55-63.	3.9	4
15	Estimation of the QT-RR relation: trade-off between goodness-of-fit and extrapolation accuracy. Physiological Measurement, 2017, 38, 397-419.	1.2	5
16	Categorization and theoretical comparison of quantitative methods for assessing QT/RR hysteresis. Annals of Noninvasive Electrocardiology, 2017, 22, .	0.5	9
17	Equivalent dipole sources to estimate the influence of extracellular myocardial anisotropy in thin-walled cardiac forward models. Mathematical Biosciences, 2017, 286, 31-38.	0.9	4
18	Theoretical and experimental comparison of lag-based and time-based exponential moving average models of QT hysteresis. Physiological Measurement, 2017, 38, 1885-1905.	1.2	0

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19	A statistical model of false negative and false positive detection of phase singularities. Chaos, 2017, 27, 103124.	1.0	7
20	Lessons from computer simulations of ablation of atrial fibrillation. Journal of Physiology, 2016, 594, 2417-2430.	1.3	25
21	Vagal stimulation targets select populations of intrinsic cardiac neurons to control neurally induced atrial fibrillation. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H1311-H1320.	1.5	46
22	OUP accepted manuscript. Europace, 2016, 18, iv23-iv34.	0.7	9
23	A simple analytical model of action potential duration profile in electrotonically-coupled cells. Mathematical Biosciences, 2016, 272, 92-99.	0.9	4
24	Remote ischaemic preconditioning shortens QT intervals during exercise in healthy subjects. European Journal of Sport Science, 2016, 16, 1005-1013.	1.4	9
25	Modeling left and right atrial contributions to the ECG: A dipole-current source approach. Computers in Biology and Medicine, 2015, 65, 192-199.	3.9	25
26	Eikonal Equation: Computation. , 2015, , 394-397.		0
27	Simultaneous Epicardial and Noncontact Endocardial Mapping of the Canine Right Atrium: Simulation and Experiment. PLoS ONE, 2014, 9, e91165.	1.1	5
28	Dynamics of atrial arrhythmias modulated by time-dependent acetylcholine concentration: a simulation study. Europace, 2014, 16, iv11-iv20.	0.7	27
29	Geometrical measurement of cardiac wavelength in reaction-diffusion models. Chaos, 2014, 24, 033133.	1.0	3
30	Seventh TRM Forum on Computer Simulation and Experimental Assessment of Cardiac Function: Creating the Basis for Tailored Therapies. Europace, 2014, 16, iv1-iv2.	0.7	0
31	Bifurcations, sustained oscillations and torus bursting involving ionic concentrations dynamics in a canine atrial cell model. Mathematical Biosciences, 2014, 250, 10-25.	0.9	4
32	QT interval measurement and correction in patients with atrial flutter: a pilot study. Journal of Electrocardiology, 2014, 47, 228-235.	0.4	13
33	Network interactions within the canine intrinsic cardiac nervous system: implications for reflex control of regional cardiac function. Journal of Physiology, 2013, 591, 4515-4533.	1.3	107
34	Reconstruction of phase maps from the configuration of phase singularities in two-dimensional manifolds. Physical Review E, 2012, 85, 051916.	0.8	3
35	An eikonal-diffusion solver and its application to the interpolation and the simulation of reentrant cardiac activations. Computer Methods and Programs in Biomedicine, 2012, 108, 548-558.	2.6	23
36	Assessment of the sensitivity of detecting drug-induced QTc changes using subject-specific rate correction. Journal of Electrocardiology, 2012, 45, 541-545.	0.4	3

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37	Extraction and Analysis of $\hbox{T}$ Waves in Electrocardiograms During Atrial Flutter. IEEE Transactions on Biomedical Engineering, 2011, 58, 1104-1112.	2.5	8
38	Eikonal-based initiation of fibrillatory activity in thin-walled cardiac propagation models. Chaos, 2011, 21, 043136.	1.0	17
39	Evaluation of a subject-specific transfer-function-based nonlinear QT interval rate-correction method. Physiological Measurement, 2011, 32, 619-635.	1.2	19
40	An Eikonal Approach for the Initiation of Reentrant Cardiac Propagation in Reaction–Diffusion Models. IEEE Transactions on Biomedical Engineering, 2010, 57, 2090-2098.	2.5	40
41	Modulation of Conduction Velocity by Nonmyocytes in the Low Coupling Regime. IEEE Transactions on Biomedical Engineering, 2009, 56, 893-896.	2.5	11
42	Genesis of complex fractionated atrial electrograms in zones of slow conduction: A computer model of microfibrosis. Heart Rhythm, 2009, 6, 803-810.	0.3	125
43	Phase-Rectified Signal Averaging Used to Estimate the Dominant Frequencies in ECG Signals During Atrial Fibrillation. IEEE Transactions on Biomedical Engineering, 2008, 55, 2538-2547.	2.5	11
44	Loading effect of fibroblast-myocyte coupling on resting potential, impulse propagation, and repolarization: insights from a microstructure model. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2040-H2052.	1.5	104
45	Modeling Atrial Arrhythmias: Impact on Clinical Diagnosis and Therapies. IEEE Reviews in Biomedical Engineering, 2008, 1, 94-114.	13.1	52
46	Modelling cardiac fibroblasts: interactions with myocytes and their impact on impulse propagation. Europace, 2007, 9, vi29-vi37.	0.7	62
47	Atrial fibrillatory cycle length: computer simulation and potential clinical importance. Europace, 2007, 9, vi64-vi70.	0.7	73
48	Impact of Varying Ablation Patterns in a Simulation Model of Persistent Atrial Fibrillation. PACE - Pacing and Clinical Electrophysiology, 2007, 30, 314-321.	0.5	26
49	Vectorcardiographic lead systems for the characterization of atrial fibrillation. Journal of Electrocardiology, 2007, 40, 343.e1-343.e11.	0.4	28
50	Cancellation of Ventricular Activity in the ECG: Evaluation of Novel and Existing Methods. IEEE Transactions on Biomedical Engineering, 2007, 54, 542-546.	2.5	78
51	Analysis of electrocardiograms during atrial fibrillation. IEEE Engineering in Medicine and Biology Magazine, 2006, 25, 79-88.	1.1	153
52	Finite Volume Stiffness Matrix for Solving Anisotropic Cardiac Propagation in 2-D and 3-D Unstructured Meshes. IEEE Transactions on Biomedical Engineering, 2005, 52, 1490-1492.	2.5	29
53	Genesis of the P wave: Atrial signals as generated by the equivalent double layer source model. Europace, 2005, 7, S21-S29.	0.7	52
54	Wavelength and vulnerability to atrial fibrillation: Insights from a computer model of human atria. Europace, 2005, 7, S83-S92.	0.7	53

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55	A numerical scheme for modeling wavefront propagation on a monolayer of arbitrary geometry. IEEE Transactions on Biomedical Engineering, 2003, 50, 412-420.	2.5	48
56	Study of Unipolar Electrogram Morphology in a Computer Model of Atrial Fibrillation. Journal of Cardiovascular Electrophysiology, 2003, 14, S172-S179.	0.8	111
57	An Algorithm for Fitting Local Membrane Parameters to an Action Potential Duration Map in a Tissue with Electrotonic Interactions. , 0, , .		1
58	Diffuse and Stringy Fibrosis in a Bilayer Interconnected Cable Model of the Left Atrium. , 0, , .		1