

Alexander V Maltsev

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

187
citations

1684188

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1474206

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17
all docs

17
docs citations

17
times ranked

179
citing authors

#	ARTICLE	IF	CITATIONS
1	A coupled-clock system drives the automaticity of human sinoatrial nodal pacemaker cells. <i>Science Signaling</i> , 2018, 11, .	3.6	85
2	Heterogeneity of calcium clock functions in dormant, dysrhythmically and rhythmically firing single pacemaker cells isolated from SA node. <i>Cell Calcium</i> , 2018, 74, 168-179.	2.4	45
3	Semi-automated 3D segmentation of human skeletal muscle using Focused Ion Beam-Scanning Electron Microscopic images. <i>Journal of Structural Biology</i> , 2019, 207, 1-11.	2.8	18
4	Stabilization of diastolic calcium signal via calcium pump regulation of complex local calcium releases and transient decay in a computational model of cardiac pacemaker cell with individual release channels. <i>PLoS Computational Biology</i> , 2017, 13, e1005675.	3.2	17
5	Computer algorithms for automated detection and analysis of local Ca ²⁺ releases in spontaneously beating cardiac pacemaker cells. <i>PLoS ONE</i> , 2017, 12, e0179419.	2.5	10
6	Social Heterogeneity Drives Complex Patterns of the COVID-19 Pandemic: Insights From a Novel Stochastic Heterogeneous Epidemic Model (SHEM). <i>Frontiers in Physics</i> , 2021, 8, .	2.1	4
7	Cardiac Pacemaker Cell Function at a Super-Resolution Scale of SIM: Distribution of RyRs, Calcium Dynamics, and Numerical Modeling. <i>Biophysical Journal</i> , 2016, 110, 267a.	0.5	2
8	Semi-Automated 3D Segmentation of Human Skeletal Muscle using Focused Ion Beam-Scanning Electron Microscopic Images Reveals Network of Mitochondria. <i>Biophysical Journal</i> , 2020, 118, 292a-293a.	0.5	2
9	Self-Organization of Functional Coupling between Membrane and Calcium Clock in Arrested Human Sinoatrial Nodal Cells in Response to Camp. <i>Biophysical Journal</i> , 2018, 114, 622a.	0.5	1
10	Filling the Gap Between Calcium Sparks and Waves: Automatic Detection and Classification of Local Calcium Releases in Cardiac Pacemaker Cells. <i>Biophysical Journal</i> , 2015, 108, 568a-569a.	0.5	0
11	Novel Insights into Sinoatrial Nodal Cell Local Calcium Releases (LCRs) from Automated Computer Analysis in Spontaneously Beating Cells. <i>Biophysical Journal</i> , 2016, 110, 434a.	0.5	0
12	Relative Contribution of Local Ca ²⁺ Releases (LCRS) and AP-Induced Ca ²⁺ Transient Decay to Diastolic Depolarization in Rabbit Sa Node Cells. <i>Biophysical Journal</i> , 2016, 110, 267a.	0.5	0
13	Synchronization of Local Calcium Releases (LCRs) in Guinea Pig Single, Isolated SA Node Cells Contributes to Generation of Rhythmic Action Potential-Induced Ca ²⁺ Transients. <i>Biophysical Journal</i> , 2016, 110, 434a-435a.	0.5	0
14	Machine Learning and Super-Resolution Microscopy Reveal Detailed Hierarchy of Ryanodine Receptor Distribution in Cardiac Pacemaker Cells. <i>Biophysical Journal</i> , 2019, 116, 380a.	0.5	0