

Joseph L Greenstein

List of Publications by Year in descending order

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49
papers

2,260
citations

218381

26
h-index

223531

46
g-index

56
all docs

56
docs citations

56
times ranked

2201
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of the Calcium-Independent Transient Outward Current I_{to1} in Shaping Action Potential Morphology and Duration. <i>Circulation Research</i> , 2000, 87, 1026-1033.	2.0	197
2	An Integrative Model of the Cardiac Ventricular Myocyte Incorporating Local Control of Ca^{2+} Release. <i>Biophysical Journal</i> , 2002, 83, 2918-2945.	0.2	173
3	The Role of Stochastic and Modal Gating of Cardiac L-Type Ca^{2+} Channels on Early After-Depolarizations. <i>Biophysical Journal</i> , 2005, 88, 85-95.	0.2	138
4	Mechanisms of Excitation-Contraction Coupling in an Integrative Model of the Cardiac Ventricular Myocyte. <i>Biophysical Journal</i> , 2006, 90, 77-91.	0.2	133
5	K^{+} current changes account for the rate dependence of the action potential in the human atrial myocyte. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H1398-H1410.	1.5	129
6	From mitochondrial ion channels to arrhythmias in the heart: computational techniques to bridge the spatio-temporal scales. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 3381-3409.	1.6	126
7	Electrotonic Coupling between Human Atrial Myocytes and Fibroblasts Alters Myocyte Excitability and Repolarization. <i>Biophysical Journal</i> , 2009, 97, 2179-2190.	0.2	122
8	A Simplified Local Control Model of Calcium-Induced Calcium Release in Cardiac Ventricular Myocytes. <i>Biophysical Journal</i> , 2004, 87, 3723-3736.	0.2	119
9	Molecular Interactions Between Two Long-QT Syndrome Gene Products, HERG and KCNE2, Rationalized by In Vitro and In Silico Analysis. <i>Circulation Research</i> , 2001, 89, 33-38.	2.0	104
10	Superresolution Modeling of Calcium Release in the Heart. <i>Biophysical Journal</i> , 2014, 107, 3018-3029.	0.2	96
11	Mathematical simulations of ligand-gated and cell-type specific effects on the action potential of human atrium. <i>Progress in Biophysics and Molecular Biology</i> , 2008, 98, 161-170.	1.4	59
12	Protein Geometry and Placement in the Cardiac Dyad Influence Macroscopic Properties of Calcium-Induced Calcium Release. <i>Biophysical Journal</i> , 2007, 92, 3379-3396.	0.2	57
13	Role of CaMKII in RyR leak, EC coupling and action potential duration: A computational model. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 617-624.	0.9	57
14	Integrative Systems Models of Cardiac Excitation-Contraction Coupling. <i>Circulation Research</i> , 2011, 108, 70-84.	2.0	56
15	Data-driven discovery of a novel sepsis pre-shock state predicts impending septic shock in the ICU. <i>Scientific Reports</i> , 2019, 9, 6145.	1.6	56
16	A Computational Model of Reactive Oxygen Species and Redox Balance in Cardiac Mitochondria. <i>Biophysical Journal</i> , 2013, 105, 1045-1056.	0.2	55
17	CaMKII-Induced Shift in Modal Gating Explains L-Type Ca^{2+} Current Facilitation: A Modeling Study. <i>Biophysical Journal</i> , 2009, 96, 1770-1785.	0.2	48
18	Multi-scale models of local control of calcium induced calcium release. <i>Progress in Biophysics and Molecular Biology</i> , 2006, 90, 136-150.	1.4	36

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19	An Integrated Mitochondrial ROS Production and Scavenging Model: Implications for Heart Failure. <i>Biophysical Journal</i> , 2013, 105, 2832-2842.	0.2	36
20	On the Adjacency Matrix of RyR2 Cluster Structures. <i>PLoS Computational Biology</i> , 2015, 11, e1004521.	1.5	33
21	Roles of phosphodiesterases in the regulation of the cardiac cyclic nucleotide cross-talk signaling network. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 91, 215-227.	0.9	33
22	Modeling calcium regulation of contraction, energetics, signaling, and transcription in the cardiac myocyte. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2016, 8, 37-67.	6.6	31
23	Integrative modeling of the cardiac ventricular myocyte. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2011, 3, 392-413.	6.6	30
24	Modeling the Actions of \hat{I}^2 -Adrenergic Signaling on Excitation-Contraction Coupling Processes. <i>Annals of the New York Academy of Sciences</i> , 2004, 1015, 16-27.	1.8	27
25	Cardiac Resynchronization Therapy Improves Altered Na Channel Gating in Canine Model of Dyssynchronous Heart Failure. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013, 6, 546-554.	2.1	27
26	Mechanistic Investigation of the Arrhythmogenic Role of Oxidized CaMKII in the Heart. <i>Biophysical Journal</i> , 2015, 109, 838-849.	0.2	27
27	Toward an Integrative Computational Model of the Guinea Pig Cardiac Myocyte. <i>Frontiers in Physiology</i> , 2012, 3, 244.	1.3	25
28	Interaction between phosphodiesterases in the regulation of the cardiac \hat{I}^2 -adrenergic pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 88, 29-38.	0.9	22
29	Modeling Na + -Ca 2+ exchange in the heart: Allosteric activation, spatial localization, sparks and excitation-contraction coupling. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 99, 174-187.	0.9	20
30	Using models of the myocyte for functional interpretation of cardiac proteomic data. <i>Journal of Physiology</i> , 2005, 563, 73-81.	1.3	19
31	Multiscale Modeling of Calcium Signaling in the Cardiac Dyad. <i>Annals of the New York Academy of Sciences</i> , 2006, 1080, 362-375.	1.8	19
32	Cardiac myocytes and local signaling in nano-domains. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 107, 48-59.	1.4	17
33	Estimating the probabilities of rare arrhythmic events in multiscale computational models of cardiac cells and tissue. <i>PLoS Computational Biology</i> , 2017, 13, e1005783.	1.5	16
34	Spectral clustering of risk score trajectories stratifies sepsis patients by clinical outcome and interventions received. <i>ELife</i> , 2020, 9, .	2.8	15
35	Modeling CaMKII-mediated regulation of L-type Ca ²⁺ channels and ryanodine receptors in the heart. <i>Frontiers in Pharmacology</i> , 2014, 5, 60.	1.6	11
36	CaMKII-dependent activation of late I_{Na} contributes to cellular arrhythmia in a model of the cardiac myocyte. , 2011, 2011, 4665-8.		10

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37	A bilobal model of Ca ²⁺ -dependent inactivation to probe the physiology of L-type Ca ²⁺ channels. <i>Journal of General Physiology</i> , 2018, 150, 1688-1701.	0.9	10
38	Na ⁺ microdomains and sparks: Role in cardiac excitation-contraction coupling and arrhythmias in ankyrin-B deficiency. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 128, 145-157.	0.9	10
39	Early Prediction of Multiple Organ Dysfunction in the Pediatric Intensive Care Unit. <i>Frontiers in Pediatrics</i> , 2021, 9, 711104.	0.9	10
40	Models and Simulations as a Service: Exploring the Use of Galaxy for Delivering Computational Models. <i>Biophysical Journal</i> , 2016, 110, 1038-1043.	0.2	9
41	Computational signatures for post-cardiac arrest trajectory prediction: Importance of early physiological time series. <i>Anaesthesia, Critical Care & Pain Medicine</i> , 2022, 41, 101015.	0.6	8
42	Mechanisms of the cyclic nucleotide cross-talk signaling network in cardiac L-type calcium channel regulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 106, 29-44.	0.9	7
43	Prediction of Impending Septic Shock in Children With Sepsis. , 2021, 3, e0442.		7
44	Extinguishing the Sparks. <i>Biophysical Journal</i> , 2013, 104, 2115-2117.	0.2	6
45	SWIFT: A deep learning approach to prediction of hypoxemic events in critically-ill patients using SpO ₂ waveform prediction. <i>PLoS Computational Biology</i> , 2021, 17, e1009712.	1.5	5
46	The Ongoing Journey to Understand Heart Function Through Integrative Modeling. <i>Circulation Research</i> , 2004, 95, 1135-1136.	2.0	4
47	Predicting Flow Rate Escalation for Pediatric Patients on High Flow Nasal Cannula Using Machine Learning. <i>Frontiers in Pediatrics</i> , 2021, 9, 734753.	0.9	2
48	Estimating ectopic beat probability with simplified statistical models that account for experimental uncertainty. <i>PLoS Computational Biology</i> , 2021, 17, e1009536.	1.5	1
49	Local control model illustrates how action potential morphology affects Ca ²⁺ release. <i>FASEB Journal</i> , 2012, 26, 1053.1.	0.2	0