

Satoshi Matsuoka

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

778
citations

687363

13
h-index

713466

21
g-index

25
all docs

25
docs citations

25
times ranked

1149
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking and quantification of dendritic cell migration and antigen trafficking between the skin and lymph nodes. <i>Scientific Reports</i> , 2014, 4, 6030.	3.3	138
2	Cytoplasmic Na ⁺ -dependent modulation of mitochondrial Ca ²⁺ via electrogenic mitochondrial Na ⁺ -Ca ²⁺ exchange. <i>Journal of Physiology</i> , 2008, 586, 1683-1697.	2.9	81
3	The destiny of Ca ²⁺ released by mitochondria. <i>Journal of Physiological Sciences</i> , 2015, 65, 11-24.	2.1	69
4	Interaction of the Na ⁺ -K ⁺ pump and Na ⁺ -Ca ²⁺ exchange via [Na ⁺] _i in a restricted space of guinea-pig ventricular cells. <i>Journal of Physiology</i> , 1998, 509, 457-470.	2.9	67
5	The mitochondrial Na ⁺ -Ca ²⁺ exchanger, NCLX, regulates automaticity of HL-1 cardiomyocytes. <i>Scientific Reports</i> , 2013, 3, 2766.	3.3	61
6	Patient-Specific Human Induced Pluripotent Stem Cell Model Assessed with Electrical Pacing Validates S107 as a Potential Therapeutic Agent for Catecholaminergic Polymorphic Ventricular Tachycardia. <i>PLoS ONE</i> , 2016, 11, e0164795.	2.5	55
7	Calcium-mediated coupling between mitochondrial substrate dehydrogenation and cardiac workload in single guinea-pig ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 40, 394-404.	1.9	49
8	Regulation of oxidative phosphorylation in intact mammalian heart in vivo. <i>Biophysical Chemistry</i> , 2005, 116, 145-157.	2.8	48
9	simBio: A Java package for the development of detailed cell models. <i>Progress in Biophysics and Molecular Biology</i> , 2006, 90, 360-377.	2.9	39
10	Pivotal role of mitochondrial Na ⁺ -Ca ²⁺ exchange in antigen receptor mediated Ca ²⁺ signalling in DT40 and A20 B lymphocytes. <i>Journal of Physiology</i> , 2012, 590, 459-474.	2.9	36
11	Uncovering the arrhythmogenic potential of TRPM4 activation in atrial-derived HL-1 cells using novel recording and numerical approaches. <i>Cardiovascular Research</i> , 2017, 113, 1243-1255.	3.8	33
12	The ventromedial hypothalamus oxytocin induces locomotor behavior regulated by estrogen. <i>Physiology and Behavior</i> , 2016, 164, 107-112.	2.1	20
13	Roles of the mitochondrial Na ⁺ -Ca ²⁺ exchanger, NCLX, in B lymphocyte chemotaxis. <i>Scientific Reports</i> , 2016, 6, 28378.	3.3	18
14	Membrane current evoked by mitochondrial Na ⁺ -Ca ²⁺ exchange in mouse heart. <i>Journal of Physiological Sciences</i> , 2020, 70, 24.	2.1	14
15	Physiological and Pathophysiological Roles of Mitochondrial Na ⁺ -Ca ²⁺ Exchanger, NCLX, in Hearts. <i>Biomolecules</i> , 2021, 11, 1876.	4.0	12
16	A simulation study on the constancy of cardiac energy metabolites during workload transition. <i>Journal of Physiology</i> , 2016, 594, 6929-6945.	2.9	9
17	Physiological functions of mitochondrial Na ⁺ -Ca ²⁺ exchanger, NCLX, in lymphocytes. <i>Cell Calcium</i> , 2020, 85, 102114.	2.4	9
18	Dysregulation of a potassium channel, THIK-1, targeted by caspase-8 accelerates cell shrinkage. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2766-2783.	4.1	7

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19	Integration of mitochondrial energetics in heart with mathematical modelling. <i>Journal of Physiology</i> , 2020, 598, 1443-1457.	2.9	7
20	Minor contribution of NCX to Na ⁺ -Ca ²⁺ exchange activity in brain mitochondria. <i>Cell Calcium</i> , 2021, 96, 102386.	2.4	3
21	Impact of mitochondria on local calcium release in murine sinoatrial nodal cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 164, 42-50.	1.9	2
22	Modeling Energetics of Ion Transport, Membrane Sensing and Systems Biology of the Heart. , 0, , 435-455.		1
23	High-efficiency Low-voltage Electroporation Using Field Constriction at Micro Orifice. , 2006, , .		0
24	Inhibition of mitochondrial Na ⁺ -Ca ²⁺ exchange by CGP-37157 attenuates BCR-mediated apoptosis in DT40 B lymphocytes. <i>Journal of the Korean Physical Society</i> , 2015, 67, 1915-1919.	0.7	0
25	Role of the Mitochondrial Na ⁺ -Ca ²⁺ Exchanger, NCLX, in the Generation of Cardiac Automaticity. <i>Japanese Journal of Electrocardiology</i> , 2014, 34, 69-81.	0.0	0