Dmitry Terentyev

List of Publications by Year
in descending order

73	4,336	117625 34	106344 65
papers	citations	h-index	g-index

75	75	75	3804
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mitochondrial calpain inhibition restores defective SR-mitochondrial crosstalk in CPVT rat myocytes. Journal of General Physiology, 2022, 154, .	1.9	0
2	Ero1Î±-Dependent ERp44 Dissociation From RyR2 Contributes to Cardiac Arrhythmia. Circulation Research, 2022, 130, 711-724.	4.5	16
3	The role of calcium homeostasis remodeling in inherited cardiac arrhythmia syndromes. Pflugers Archiv European Journal of Physiology, 2021, 473, 377-387.	2.8	14
4	Interleukin-1Î², Oxidative Stress, and Abnormal Calcium Handling Mediate Diabetic Arrhythmic Risk. JACC Basic To Translational Science, 2021, 6, 42-52.	4.1	25
5	Pyridostigmine improves cardiac function and rhythmicity through RyR2 stabilization and inhibition of STIM1â€mediated calcium entry in heart failure. Journal of Cellular and Molecular Medicine, 2021, 25, 4637-4648.	3.6	3
6	Sarcoplasmic reticulum-mitochondria communication; implications for cardiac arrhythmia. Journal of Molecular and Cellular Cardiology, 2021, 156, 105-113.	1.9	16
7	RyR2 Gain-of-Function and Not So Sudden Cardiac Death. Circulation Research, 2021, 129, 417-419.	4.5	4
8	MCU overexpression evokes disparate dose-dependent effects on mito-ROS and spontaneous Ca²⁺ release in hypertrophic rat cardiomyocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H615-H632.	3.2	16
9	PKA phosphorylation underlies functional recruitment of sarcolemmal SK2 channels in ventricular myocytes from hypertrophic hearts. Journal of Physiology, 2020, 598, 2847-2873.	2.9	23
10	PKA-Dependent Phosphorylation of Mitochondrial SK2 Channels Regulates Mitochondrial Calcium Uptake in Ventricular Cardiomyocytes. Biophysical Journal, 2020, 118, 328a.	0.5	1
11	Increased RyR2 activity is exacerbated by calcium leak-induced mitochondrial ROS. Basic Research in Cardiology, 2020, 115, 38.	5.9	73
12	Impact of ISK Voltage and Ca2+/Mg2+-Dependent Rectification on Cardiac Repolarization. Biophysical Journal, 2020, 119, 690-704.	0.5	5
13	Late I _{Na} Blocker GS967 Supresses Polymorphic Ventricular Tachycardia in a Transgenic Rabbit Model of Long QT Type 2. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e006875.	4.8	11
14	Enhancing Autophagy Diminishes Aberrant Ca2+ Homeostasis and Arrhythmogenesis in Aging Rabbit Hearts. Frontiers in Physiology, 2019, 10, 1277.	2.8	12
15	LITAF (Lipopolysaccharide-Induced Tumor Necrosis Factor) Regulates Cardiac L-Type Calcium Channels by Modulating NEDD (Neural Precursor Cell Expressed Developmentally Downregulated Protein) 4-1 Ubiquitin Ligase. Circulation Genomic and Precision Medicine, 2019, 12, 407-420.	3.6	9
16	3-Week-Old Rabbit Cardiomyocytes (3wRbCM): A Novel Cellular Model for Studying Cardiac Excitation. Biophysical Journal, 2019, 116, 230a.	0.5	2
17	Altered Intracellular Calcium Homeostasis and Arrhythmogenesis in the Aged Heart. International Journal of Molecular Sciences, 2019, 20, 2386.	4.1	60
18	LITAF regulates action potential duration by modulating NEDD4â€1â€mediated degradation of Lâ€type calcium channels. FASEB Journal, 2019, 33, 824.19.	0.5	0

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19	Activation of Anoctamin-1 Limits Pulmonary Endothelial Cell Proliferation via p38â€“Mitogen-activated Protein Kinaseâ€“Dependent Apoptosis. American Journal of Respiratory Cell and Molecular Biology, 2018, 58, 658-667.	2.9	35
20	Proarrhythmic Remodeling of Calcium Homeostasis in Cardiac Disease; Implications for Diabetes and Obesity. Frontiers in Physiology, 2018, 9, 1517.	2.8	37
21	Pharmacological Modulation of Mitochondrial Ca2+ Content Regulates Sarcoplasmic Reticulum Ca2+ Release via Oxidation of the Ryanodine Receptor by Mitochondria-Derived Reactive Oxygen Species. Frontiers in Physiology, 2018, 9, 1831.	2.8	42
22	NCX-Mediated Subcellular Ca2+ Dynamics Underlying Early Afterdepolarizations in LQT2 Cardiomyocytes. Biophysical Journal, 2018, 115, 1019-1032.	0.5	17
23	Transient Outward K ⁺ Current (I _{to}) Underlies the Right Ventricular Initiation of Polymorphic Ventricular Tachycardia in a Transgenic Rabbit Model of Long-QT Syndrome Type 1. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005414.	4.8	15
24	Long-Term Exposure to Imatinib Mesylate Downregulates Hippo Pathway and Activates YAP in a Model of Chronic Myelogenous Leukemia. Stem Cells and Development, 2017, 26, 656-677.	2.1	17
25	SK Channel Enhancers Attenuate Ca ²⁺ -Dependent Arrhythmia in Hypertrophic Hearts by Regulating Mito-ROS-Dependent Oxidation and Activity of RyR.. Cardiovascular Research, 2017, 113, cvx005.	3.8	45
26	The role of spatial organization of Ca2+ release sites in the generation of arrhythmogenic diastolic Ca2+ release in myocytes from failing hearts. Basic Research in Cardiology, 2017, 112, 44.	5.9	17
27	Regulation of sarcoplasmic reticulum Ca2+ release by serine-threonine phosphatases in the heart. Journal of Molecular and Cellular Cardiology, 2016, 101, 156-164.	1.9	31
28	Ca²⁺-Activated K⁺ Channels as Therapeutic Targets for Myocardial and Vascular Protection. Circulation Journal, 2015, 79, 455-462.	1.6	19
29	BKCa channel activation increases cardiac contractile recovery following hypothermic ischemia/reperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H625-H633.	3.2	13
30	Hyperphosphorylation of RyRs Underlies Triggered Activity in Transgenic Rabbit Model of LQT2 Syndrome. Circulation Research, 2014, 115, 919-928.	4.5	64
31	Progesterone modulates SERCA2a expression and function in rabbit cardiomyocytes. American Journal of Physiology - Cell Physiology, 2014, 307, C1050-C1057.	4.6	16
32	Ca handling during excitationâ€“contraction coupling in heart failure. Pflugers Archiv European Journal of Physiology, 2014, 466, 1129-1137.	2.8	80
33	Sarcoplasmic reticulum Ca²⁺ release is both necessary and sufficient for SK channel activation in ventricular myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H738-H746.	3.2	43
34	Redox modification of ryanodine receptors by mitochondriaâ€derived reactive oxygen species contributes to aberrant Ca²⁺ handling in ageing rabbit hearts. Journal of Physiology, 2013, 591, 5895-5911.	2.9	97
35	Sarcoplasmic Reticulum Ca Homeostasis and Heart Failure. Biological and Medical Physics Series, 2013, , 5-36.	0.4	1
36	Dietary Omega-3 Fatty Acids Promote Arrhythmogenic Remodeling of Cellular Ca2+ Handling in a Postinfarction Model of Sudden Cardiac Death. PLoS ONE, 2013, 8, e78414.	2.5	9

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37	Ageâ€associated attenuation of autophagy underlies ryanodine receptor hyperactivity. FASEB Journal, 2013, 27, .	0.5	0
38	Endurance exercise training normalizes repolarization and calcium-handling abnormalities, preventing ventricular fibrillation in a model of sudden cardiac death. Journal of Applied Physiology, 2012, 113, 1772-1783.	2.5	23
39	Shortened Ca ²⁺ Signaling Refractoriness Underlies Cellular Arrhythmogenesis in a Postinfarction Model of Sudden Cardiac Death. Circulation Research, 2012, 110, 569-577.	4.5	99
40	miRNAs got rhythm. Life Sciences, 2011, 88, 373-383.	4.3	13
41	MicroRNA-1 and -133 Increase Arrhythmogenesis in Heart Failure by Dissociating Phosphatase Activity from RyR2 Complex. PLoS ONE, 2011, 6, e28324.	2.5	134
42	Tetrahydrobiopterin depletion and NOS2 uncoupling contribute to heart failure-induced alterations in atrial electrophysiology. Cardiovascular Research, 2011, 91, 71-79.	3.8	70
43	Arrhythmogenic adverse effects of cardiac glycosides are mediated by redox modification of ryanodine receptors. Journal of Physiology, 2011, 589, 4697-4708.	2.9	36
44	How to stop the fire? Control of Ca²⁺â€induced Ca²⁺ release in cardiac muscle. Journal of Physiology, 2011, 589, 5899-5900.	2.9	6
45	MicroRNAs in cardiovascular disease. F1000 Medicine Reports, 2011, 3, 10.	2.9	15
46	The relationship between arrhythmogenesis and impaired contractility in heart failure: role of altered ryanodine receptor function. Cardiovascular Research, 2011, 90, 493-502.	3.8	109
47	Effects of dietary omegaâ€“3 fatty acids on ventricular function in dogs with healed myocardial infarctions: in vivo and in vitro studies. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1219-H1228.	3.2	38
48	Chronic heart failure and the substrate for atrial fibrillation. Cardiovascular Research, 2009, 84, 227-236.	3.8	67
49	Redox modification of ryanodine receptors underlies calcium alternans in a canine model of sudden cardiac death. Cardiovascular Research, 2009, 84, 387-395.	3.8	133
50	Cardiac calsequestrin: quest inside the SR. Journal of Physiology, 2009, 587, 3091-3094.	2.9	48
51	Intraâ€sarcoplasmic reticulum Ca²⁺ oscillations are driven by dynamic regulation of ryanodine receptor function by luminal Ca²⁺ in cardiomyocytes. Journal of Physiology, 2009, 587, 4863-4872.	2.9	44
52	miR-1 Overexpression Enhances Ca ²⁺ Release and Promotes Cardiac Arrhythmogenesis by Targeting PP2A Regulatory Subunit B56Î± and Causing CaMKII-Dependent Hyperphosphorylation of RyR2. Circulation Research, 2009, 104, 514-521.	4.5	268
53	Modulation of SR Ca Release by Luminal Ca and Calsequestrin in Cardiac Myocytes: Effects of CASQ2 Mutations Linked to Sudden Cardiac Death. Biophysical Journal, 2008, 95, 2037-2048.	0.5	91
54	Repolarization abnormalities and afterdepolarizations in a canine model of sudden cardiac death. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R1463-R1472.	1.8	28

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55	Redox Modification of Ryanodine Receptors Contributes to Sarcoplasmic Reticulum Ca ²⁺ Leak in Chronic Heart Failure. Circulation Research, 2008, 103, 1466-1472.	4.5	315
56	Mechanisms of impaired calcium handling underlying subclinical diastolic dysfunction in diabetes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1787-R1797.	1.8	112
57	A mutation in calsequestrin, CASQ2D307H, impairs Sarcoplasmic Reticulum Ca2+ handling and causes complex ventricular arrhythmias in mice. Cardiovascular Research, 2007, 75, 69-78.	3.8	52
58	Modulation of ryanodine receptor by luminal calcium and accessory proteins in health and cardiac disease. Cardiovascular Research, 2007, 77, 245-255.	3.8	201
59	Enhanced Ryanodine Receptor-Mediated Calcium Leak Determines Reduced Sarcoplasmic Reticulum Calcium Content in Chronic Canine Heart Failure. Biophysical Journal, 2007, 93, 4083-4092.	0.5	94
60	Protein-protein interactions between triadin and calsequestrin are involved in modulation of sarcoplasmic reticulum calcium release in cardiac myocytes. Journal of Physiology, 2007, 583, 71-80.	2.9	46
61	Chain-reaction Ca2+ signaling in the heart. Journal of Clinical Investigation, 2007, 117, 1758-1762.	8.2	18
62	Abnormal Interactions of Calsequestrin With the Ryanodine Receptor Calcium Release Channel Complex Linked to Exercise-Induced Sudden Cardiac Death. Circulation Research, 2006, 98, 1151-1158.	4.5	179
63	Clinical Phenotype and Functional Characterization of CASQ2 Mutations Associated With Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation, 2006, 114, 1012-1019.	1.6	189
64	Synergistic interactions between Ca2+entries through L-type Ca2+channels and Na+-Ca2+exchanger in normal and failing rat heart. Journal of Physiology, 2005, 567, 493-504.	2.9	26
65	Abnormal intrastore calcium signaling in chronic heart failure. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14104-14109.	7.1	182
66	Triadin Overexpression Stimulates Excitation-Contraction Coupling and Increases Predisposition to Cellular Arrhythmia in Cardiac Myocytes. Circulation Research, 2005, 96, 651-658.	4.5	73
67	Abnormal Calcium Signaling and Sudden Cardiac Death Associated With Mutation of Calsequestrin. Circulation Research, 2004, 94, 471-477.	4.5	158
68	Modulation of cytosolic and intra-sarcoplasmic reticulum calcium waves by calsequestrin in rat cardiac myocytes. Journal of Physiology, 2004, 561, 515-524.	2.9	50
69	Modulation of sarcoplasmic reticulum calcium release by calsequestrin in cardiac myocytes. Biological Research, 2004, 37, 603-7.	3.4	27
70	Protein Phosphatases Decrease Sarcoplasmic Reticulum Calcium Content by Stimulating Calcium Release in Cardiac Myocytes. Journal of Physiology, 2003, 552, 109-118.	2.9	74
71	Calsequestrin determines the functional size and stability of cardiac intracellular calcium stores: Mechanism for hereditary arrhythmia. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11759-11764.	7.1	224
72	Luminal Ca2+Controls Termination and Refractory Behavior of Ca2+-Induced Ca2+Release in Cardiac Myocytes. Circulation Research, 2002, 91, 414-420.	4.5	201

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73	Development of muscle-specific features in cultured frog embryonic skeletal myocytes. Journal of Muscle Research and Cell Motility, 1999, 20, 517-527.	2.0	3