Timothy L Domeier

List of Publications by Year
in descending order

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46 papers	1,372 citations	394286 19 h-index	345118 36 g-index
46 all docs	46 docs citations	46 times ranked	1987 citing authors

#	Article	IF	Citations
1	The IP ₃ Receptor Regulates Cardiac Hypertrophy in Response to Select Stimuli. Circulation Research, 2010, 107, 659-666.	2.0	154
2	Endothelial Mineralocorticoid Receptor Deletion Prevents Diet-Induced Cardiac Diastolic Dysfunction in Females. Hypertension, 2015, 66, 1159-1167.	1.3	111
3	IP₃receptor-dependent Ca²⁺release modulates excitation-contraction coupling in rabbit ventricular myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H596-H604.	1.5	110
4	Genetic manipulation of the cardiac mitochondrial phosphate carrier does not affect permeability transition. Journal of Molecular and Cellular Cardiology, 2014, 72, 316-325.	0.9	103
5	Refractoriness of sarcoplasmic reticulum Ca²⁺ release determines Ca²⁺ alternans in atrial myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H2310-H2320.	1.5	79
6	Electromechanical and pharmacomechanical signalling pathways for conducted vasodilatation along endothelium of hamster feed arteries. Journal of Physiology, 2007, 579, 175-186.	1.3	76
7	Dantrolene prevents arrhythmogenic Ca2+ release in heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H953-H963.	1.5	74
8	Alteration of sarcoplasmic reticulum Ca²⁺ release termination by ryanodine receptor sensitization and in heart failure. Journal of Physiology, 2009, 587, 5197-5209.	1.3	66
9	Mineralocorticoid receptor blockade prevents Western diet-induced diastolic dysfunction in female mice. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1126-H1135.	1.5	64
10	Propagation of calcium waves along endothelium of hamster feed arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1634-H1640.	1.5	52
11	Enhanced Development of Skeletal Myotubes from Porcine Induced Pluripotent Stem Cells. Scientific Reports, 2017, 7, 41833.	1.6	50
12	TRPV4 increases cardiomyocyte calcium cycling and contractility yet contributes to damage in the aged heart following hypoosmotic stress. Cardiovascular Research, 2019, 115, 46-56.	1.8	48
13	Western Diet-Fed, Aortic-Banded Ossabaw Swine. JACC Basic To Translational Science, 2019, 4, 404-421.	1.9	48
14	Saxagliptin and Tadalafil Differentially Alter Cyclic Guanosine Monophosphate (cGMP) Signaling and Left Ventricular Function in Aorticâ€Banded Miniâ€Swine. Journal of the American Heart Association, 2016, 5, e003277.	1.6	30
15	Advanced age protects microvascular endothelium from aberrant Ca²⁺ influx and cell death induced by hydrogen peroxide. Journal of Physiology, 2015, 593, 2155-2169.	1.3	29
16	Cardiomyocyte Ca 2+ homeostasis as a therapeutic target in heart failure with reduced and preserved ejection fraction. Current Opinion in Pharmacology, 2017, 33, 17-26.	1.7	28
17	Coordination of Intercellular <scp><scp>Ca</scp></scp>²⁺ Signaling in Endothelial Cell Tubes of Mouse Resistance Arteries. Microcirculation, 2012, 19, 757-770.	1.0	27
18	A new twist on an old idea part 2: cyclosporine preserves normal mitochondrial but not cardiomyocyte function in mini-swine with compensated heart failure. Physiological Reports, 2014, 2, e12050.	0.7	23

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19	Length and PKA Dependence of Force Generation and Loaded Shortening in Porcine Cardiac Myocytes. Biochemistry Research International, 2012, 2012, 1-12.	1.5	21
20	Attenuated sarcomere lengthening of the aged murine left ventricle observed using two-photon fluorescence microscopy. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H918-H925.	1.5	19
21	Dantrolene suppresses spontaneous Ca²⁺release without altering excitation-contraction coupling in cardiomyocytes of aged mice. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H818-H829.	1.5	17
22	Transient receptor potential vanilloid-4 contributes to stretch-induced hypercontractility and time-dependent dysfunction in the aged heart. Cardiovascular Research, 2020, 116, 1887-1896.	1.8	17
23	Chronic low-intensity exercise attenuates cardiomyocyte contractile dysfunction and impaired adrenergic responsiveness in aortic-banded mini-swine. Journal of Applied Physiology, 2018, 124, 1034-1044.	1.2	15
24	Arrhythmogenesis in the aged heart following ischaemiaâ€“reperfusion: role of transient receptor potential vanilloid 4. Cardiovascular Research, 2022, 118, 1126-1137.	1.8	14
25	Elevated Ca²⁺ transients and increased myofibrillar power generation cause cardiac hypercontractility in a model of Noonan syndrome with multiple lentigines. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1086-H1095.	1.5	13
26	Prospect of gene therapy for cardiomyopathy in hereditary muscular dystrophy. Expert Opinion on Orphan Drugs, 2016, 4, 169-183.	0.5	13
27	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. Metabolism: Clinical and Experimental, 2020, 109, 154223.	1.5	13
28	Î²â€Adrenergic stimulation increases the intraâ€sarcoplasmic reticulum Ca²⁺ threshold for Ca²⁺ wave generation. Journal of Physiology, 2012, 590, 6093-6108.	1.3	11
29	Changes in intra-luminal calcium during spontaneous calcium waves following sensitization of ryanodine receptor channels. Channels, 2010, 4, 87-92.	1.5	7
30	Role of Known Transient Receptor Potential Vanilloid Channels in Modulating Cardiac Mechanobiology. Frontiers in Physiology, 2021, 12, 734113.	1.3	7
31	Tissue-specific small heat shock protein 20 activation is not associated with traditional autophagy markers in Ossabaw swine with cardiometabolic heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H1036-H1043.	1.5	6
32	Distribution of cardiomyocyte-selective adeno-associated virus serotype 9 vectors in swine following intracoronary and intravenous infusion. Physiological Genomics, 2022, 54, 261-272.	1.0	5
33	Î²-adrenergic stimulation increases the intra-SR Ca termination threshold for spontaneous Ca waves in cardiac myocytes. Channels, 2013, 7, 206-210.	1.5	4
34	Fascin2 regulates cisplatin-induced apoptosis in NRK-52E cells. Toxicology Letters, 2017, 266, 56-64.	0.4	4
35	The right ventricular transcriptome signature in Ossabaw swine with cardiometabolic heart failure: implications for the coronary vasculature. Physiological Genomics, 2021, 53, 99-115.	1.0	4
36	Tempol Preserves Endothelial Progenitor Cells in Male Mice with Ambient Fine Particulate Matter Exposure. Biomedicines, 2022, 10, 327.	1.4	4

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37	Ryanodine Receptor Sensitization Alters Local And Global Sarcoplasmic Reticulum Calcium Release Termination Threshold In Rabbit Ventricular Myocytes. Biophysical Journal, 2009, 96, 276a.	0.2	1
38	Refractoriness of Ryanodine Receptors During Calcium Alternans in Rabbit Atrial Myocytes. Biophysical Journal, 2010, 98, 103a.	0.2	1
39	Mechanisms of Spontaneous Calcium Wave Generation During Beta-Adrenergic Stimulation in Rabbit Ventricular Myocytes. Biophysical Journal, 2010, 98, 105a.	0.2	1
40	Beta-Adrenergic Stimulation Increases the Intra-Sarcoplasmic Reticulum Ca Threshold for Spontaneous Ca Waves. Biophysical Journal, 2011, 100, 559a.	0.2	1
41	Resolution of Ca 2+ dynamics underlying conducted vasodilation: The Ca 2+ wave.. FASEB Journal, 2006, 20, A277.	0.2	1
42	Right Ventricular Hypertrophy is Associated with Increased MAPK8, Fibronectin, and Extracellular Matrix Regulatory Biomarker (MMP/TIMP) mRNA Levels in a Preâ€Clinical Swine Model of HFpEF. FASEB Journal, 2019, 33, 530.4.	0.2	1
43	A Novel Signaling Pathway for Conducted Vasodilation in Hamster Feed Arteries. FASEB Journal, 2006, 20, A276.	0.2	0
44	Manipulating IP 3 Râ€mediated calcium release in permeabilized endothelial cell tubes of resistance arteries. FASEB Journal, 2012, 26, 1058.8.	0.2	0
45	Impaired Ca 2+ signaling following acutely elevated glucose in mouse endothelial cell tubes. FASEB Journal, 2013, 27, 678.2.	0.2	0
46	Increased Left Ventricular mRNA Levels of the Inflammatory Biomarkers Pentraxinâ€3 and Interleukin 1 Receptorâ€Like 1 are Correlated with Diastolic Dysfunction in a Preâ€Clinical Swine Model of HFpEF. FASEB Journal, 2019, 33, 532.13.	0.2	0