Joseph Y Cheung

List of Publications by Year
in descending order

89 papers	3,745 citations	94269 37 h-index	138251 58 g-index
89 all docs	89 docs citations	89 times ranked	4325 citing authors

#	Article	IF	Citations
1	Pepducin ICL1-9-Mediated Î²2-Adrenergic Receptor-Dependent Cardiomyocyte Contractility Occurs in a Gi Protein/ROCK/PKD-Sensitive Manner. Cardiovascular Drugs and Therapy, 2023, 37, 245-256.	1.3	4
2	Epidermal growth factor receptor-dependent maintenance of cardiac contractility. Cardiovascular Research, 2022, 118, 1276-1288.	1.8	8
3	The human ion channel TRPM2 modulates cell survival in neuroblastoma through E2F1 and FOXM1. Scientific Reports, 2022, 12, 6311.	1.6	9
4	Therapeutic targeting of BAG3: considering its complexity in cancer and heart disease. Journal of Clinical Investigation, 2021, 131, .	3.9	34
5	Antidotal effects of methylene blue against cyanide neurological toxicity: <i>in vivo</i> and <i>in vitro</i> studies. Annals of the New York Academy of Sciences, 2020, 1479, 108-121.	1.8	6
6	Transient receptor potential ion channel TRPM2 promotes AML proliferation and survival through modulation of mitochondrial function, ROS, and autophagy. Cell Death and Disease, 2020, 11, 247.	2.7	44
7	Novel BAG3 Variants in African American Patients With Cardiomyopathy: Reduced Î²-Adrenergic Responsiveness in Excitationâ€"Contraction. Journal of Cardiac Failure, 2020, 26, 1075-1085.	0.7	5
8	The Human Transient Receptor Potential Melastatin 2 Ion Channel Modulates ROS Through Nrf2. Scientific Reports, 2019, 9, 14132.	1.6	18
9	The Central Role of Protein Kinase C Epsilon in Cyanide Cardiotoxicity and Its Treatment. Toxicological Sciences, 2019, 171, 247-257.	1.4	6
10	Role of Bcl2-associated Athanogene 3 in Turnover of Gap Junction Protein, Connexin 43, in Neonatal Cardiomyocytes. Scientific Reports, 2019, 9, 7658.	1.6	13
11	Current Landscape of Heart Failure Gene Therapy. Journal of the American Heart Association, 2019, 8, e012239.	1.6	45
12	Antidotal Effects of the Phenothiazine Chromophore Methylene Blue Following Cyanide Intoxication. Toxicological Sciences, 2019, 170, 82-94.	1.4	10
13	Evidence for the impact of BAG3 on electrophysiological activity of primary culture of neonatal cardiomyocytes. Journal of Cellular Physiology, 2019, 234, 18371-18381.	2.0	5
14	Mitochondrial dysfunction in human immunodeficiency virusâ€1 transgenic mouse cardiac myocytes. Journal of Cellular Physiology, 2019, 234, 4432-4444.	2.0	14
15	Methylene Blue Administration During and After Life-Threatening Intoxication by Hydrogen Sulfide: Efficacy Studies in Adult Sheep and Mechanisms of Action. Toxicological Sciences, 2019, 168, 443-459.	1.4	17
16	Lamin B is a target for selective nuclear PQC by BAG3: implication for nuclear envelopathies. Cell Death and Disease, 2019, 10, 23.	2.7	8
17	Trpm2 enhances physiological bioenergetics and protects against pathological oxidative cardiac injury: Role of Pyk2 phosphorylation. Journal of Cellular Physiology, 2019, 234, 15048-15060.	2.0	10
18	The Multifunctional Protein BAG3. JACC Basic To Translational Science, 2018, 3, 122-131.	1.9	40

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19	Haploâ€insufficiency of Bcl2â€associated athanogene 3 in mice results in progressive left ventricular dysfunction, Î²â€adrenergic insensitivity, and increased apoptosis. Journal of Cellular Physiology, 2018, 233, 6319-6326.	2.0	32
20	Methylene Blue Counteracts H2S-Induced Cardiac Ion Channel Dysfunction and ATP Reduction. Cardiovascular Toxicology, 2018, 18, 407-419.	1.1	14
21	Dysregulation of mitochondrial bioenergetics and quality control by HIVâ€1 Tat in cardiomyocytes. Journal of Cellular Physiology, 2018, 233, 748-758.	2.0	22
22	The human ion channel TRPM2 modulates neuroblastoma cell survival and mitochondrial function through Pyk2, CREB, and MCU activation. American Journal of Physiology - Cell Physiology, 2018, 315, C571-C586.	2.1	38
23	Methylene blue counteracts cyanide cardiotoxicity: cellular mechanisms. Journal of Applied Physiology, 2018, 124, 1164-1176.	1.2	17
24	Association of Variants in <i>BAG3</i> With Cardiomyopathy Outcomes in African American Individuals. JAMA Cardiology, 2018, 3, 929.	3.0	57
25	Abstract 578: Î²-arrestin-Biased Î²2-Adrenergic Receptor Signaling Enhances Cardiomyocyte Contractility via ROCK-Dependent Signaling. Circulation Research, 2018, 123, .	2.0	0
26	Mitochondrial Ca2+ Uniporter Is a Mitochondrial Luminal Redox Sensor that Augments MCU Channel Activity. Molecular Cell, 2017, 65, 1014-1028.e7.	4.5	179
27	Precision Medicine for Heart Failure. Circulation: Heart Failure, 2017, 10, .	1.6	9
28	Structural Determinants Influencing the Potency and Selectivity of Indazole-Paroxetine Hybrid G Proteinâ€"Coupled Receptor Kinase 2 Inhibitors. Molecular Pharmacology, 2017, 92, 707-717.	1.0	27
29	Evidence for the Role of BAG3 in Mitochondrial Quality Control in Cardiomyocytes. Journal of Cellular Physiology, 2017, 232, 797-805.	2.0	60
30	Transient Receptor Potential-Melastatin Channel Family Member 2: Friend or Foe. Transactions of the American Clinical and Climatological Association, 2017, 128, 308-329.	0.9	6
31	TRPM2 protects against tissue damage following oxidative stress and ischaemiaâ€"reperfusion. Journal of Physiology, 2016, 594, 4181-4191.	1.3	50
32	Adeno-Associated Virus Serotype 9â€"Driven Expression of BAG3 Improves LeftÂVentricular Function in Murine Hearts With Left Ventricular Dysfunction Secondary to a Myocardial Infarction. JACC Basic To Translational Science, 2016, 1, 647-656.	1.9	32
33	Structure-Based Design, Synthesis, and Biological Evaluation of Highly Selective and Potent G Protein-Coupled Receptor Kinase 2 Inhibitors. Journal of Medicinal Chemistry, 2016, 59, 3793-3807.	2.9	53
34	Depletion of the Human Ion Channel TRPM2 in Neuroblastoma Demonstrates Its Key Role in Cell Survival through Modulation of Mitochondrial Reactive Oxygen Species and Bioenergetics. Journal of Biological Chemistry, 2016, 291, 24449-24464.	1.6	58
35	Vasopressin typeÂ1A receptor deletion enhances cardiac contractility, Î²-adrenergic receptor sensitivity and acute cardiac injury-induced dysfunction. Clinical Science, 2016, 130, 2017-2027.	1.8	6
36	Methylene blue counteracts H₂S toxicity-induced cardiac depression by restoring L-type Ca channel activity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R1030-R1044.	0.9	25

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37	GRP78 Interacting Partner Bag5 Responds to ER Stress and Protects Cardiomyocytes From ER Stressâ€Induced Apoptosis. Journal of Cellular Biochemistry, 2016, 117, 1813-1821.	1.2	48
38	Î²-arrestinâ€“biased signaling through the Î² ₂ -adrenergic receptor promotes cardiomyocyte contraction. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4107-16.	3.3	94
39	BAG3 regulates contractility and Ca2+ homeostasis in adult mouse ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2016, 92, 10-20.	0.9	56
40	Bcl-2â€“associated athanogene 3 protects the heart from ischemia/reperfusion injury. JCI Insight, 2016, 1, e90931.	2.3	40
41	A Metricâ€Based System for Evaluating the Productivity of Preclinical Faculty at an Academic Medical Center in the Era of Clinical and Translational Science. Clinical and Translational Science, 2015, 8, 357-361.	1.5	9
42	An observational preâ€“post study of re-structuring Medicine inpatient teaching service: Improved continuity of care within constraint of 2011 duty hours. Healthcare, 2015, 3, 129-134.	0.6	3
43	Ca ²⁺ signals regulate mitochondrial metabolism by stimulating CREB-mediated expression of the mitochondrial Ca ²⁺ uniporter gene <i>MCU</i>. Science Signaling, 2015, 8, ra23.	1.6	102
44	Cardiac Dysfunction in HIVâ€1 Transgenic Mouse: Role of Stress and BAG3. Clinical and Translational Science, 2015, 8, 305-310.	1.5	20
45	Ca²⁺entry via Trpm2 is essential for cardiac myocyte bioenergetics maintenance. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H637-H650.	1.5	57
46	Crystal Structure of G Protein-coupled Receptor Kinase 5 in Complex with a Rationally Designed Inhibitor. Journal of Biological Chemistry, 2015, 290, 20649-20659.	1.6	39
47	The Mitochondrial Calcium Uniporter Matches Energetic Supply with Cardiac Workload during Stress and Modulates Permeability Transition. Cell Reports, 2015, 12, 23-34.	2.9	304
48	Regulation of L-type calcium channel by phospholemman in cardiac myocytes. Journal of Molecular and Cellular Cardiology, 2015, 84, 104-111.	0.9	18
49	BAG3: a new player in the heart failure paradigm. Heart Failure Reviews, 2015, 20, 423-434.	1.7	79
50	Decreased Levels of BAG3 in a Family With a Rare Variant and in Idiopathic Dilated Cardiomyopathy. Journal of Cellular Physiology, 2014, 229, 1697-1702.	2.0	68
51	A Splice Variant of the Human Ion Channel TRPM2 Modulates Neuroblastoma Tumor Growth through Hypoxia-inducible Factor (HIF)-1/2Î±. Journal of Biological Chemistry, 2014, 289, 36284-36302.	1.6	82
52	TRPM2 Channels Protect against Cardiac Ischemia-Reperfusion Injury. Journal of Biological Chemistry, 2014, 289, 7615-7629.	1.6	78
53	Induced overexpression of phospholemman S68E mutant improves cardiac contractility and mortality after ischemia-reperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1066-H1077.	1.5	7
54	Î²-Adrenergic Receptorâ€“Mediated Cardiac Contractility Is Inhibited via Vasopressin Type 1A-Receptorâ€“Dependent Signaling. Circulation, 2014, 130, 1800-1811.	1.6	34

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55	Induced Overexpression of Na+/Ca2+ Exchanger Does Not Aggravate Myocardial Dysfunction Induced by Transverse Aortic Constriction. Journal of Cardiac Failure, 2013, 19, 60-70.	0.7	16
56	MICU1 Motifs Define Mitochondrial Calcium Uniporter Binding and Activity. Cell Reports, 2013, 5, 1576-1588.	2.9	112
57	Coordinated Regulation of Cardiac Na+/Ca2+ Exchanger and Na+-K+-ATPase by Phospholemman (FXYD1). Advances in Experimental Medicine and Biology, 2013, 961, 175-190.	0.8	20
58	Role of TRPM2 in cell proliferation and susceptibility to oxidative stress. American Journal of Physiology - Cell Physiology, 2013, 304, C548-C560.	2.1	54
59	The second member of transient receptor potential-melastatin channel family protects hearts from ischemia-reperfusion injury. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H1010-H1022.	1.5	62
60	Constitutive overexpression of phosphomimetic phospholemman S68E mutant results in arrhythmias, early mortality, and heart failure: potential involvement of Na⁺/Ca²⁺ exchanger. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H770-H781.	1.5	26
61	Phospholemman Deficiency in Postinfarct Hearts: Enhanced Contractility but Increased Mortality. Clinical and Translational Science, 2012, 5, 235-242.	1.5	4
62	Residues 248â€“252 and 300â€“304 of the cardiac Na⁺/Ca²⁺exchanger are involved in its regulation by phospholemman. American Journal of Physiology - Cell Physiology, 2011, 301, C833-C840.	2.1	10
63	The Transient Receptor Potential (TRP) Channel TRPC3 TRP Domain and AMP-activated Protein Kinase Binding Site Are Required for TRPC3 Activation by Erythropoietin*. Journal of Biological Chemistry, 2011, 286, 30636-30646.	1.6	25
64	Regulation of in vivo cardiac contractility by phospholemman: role of Na+/Ca2+ exchange. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H859-H868.	1.5	33
65	<scp>Review Article</scp>: Phospholemman: A Novel Cardiac Stress Protein. Clinical and Translational Science, 2010, 3, 189-196.	1.5	28
66	Effects of cardiac-restricted overexpression of the A2A adenosine receptor on adriamycin-induced cardiotoxicity. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1738-H1747.	1.5	11
67	Phospholemman and Î²-adrenergic stimulation in the heart. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H807-H815.	1.5	31
68	Induced overexpression of Na⁺/Ca²⁺ exchanger transgene: altered myocyte contractility, [Ca²⁺]_i transients, SR Ca²⁺ contents, and action potential duration. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H590-H601.	1.5	44
69	Phospholemman regulates cardiac Na+/Ca2+ exchanger by interacting with the exchanger's proximal linker domain. American Journal of Physiology - Cell Physiology, 2009, 296, C911-C921.	2.1	15
70	Regulation of cardiac myocyte contractility by phospholemman: Na+/Ca2+ exchange versus Na+-K+-ATPase. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H1615-H1625.	1.5	44
71	Phospholemman overexpression inhibits Na+-K+-ATPase in adult rat cardiac myocytes: relevance to decreased Na+ pump activity in postinfarction myocytes. Journal of Applied Physiology, 2006, 100, 212-220.	1.2	48
72	Na+/Ca2+ Exchanger Is Functional in Both Ca2+ Influx and Efflux Modes in Rat Myocytes. Annals of the New York Academy of Sciences, 2006, 976, 528-529.	1.8	1

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73	Altered contractility and [Ca2+]i homeostasis in phospholemman-deficient murine myocytes: role of Na+/Ca2+ exchange. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2199-H2209.	1.5	40
74	TRPM2 is an ion channel that modulates hematopoietic cell death through activation of caspases and PARP cleavage. American Journal of Physiology - Cell Physiology, 2006, 290, C1146-C1159.	2.1	113
75	Phospholemman Inhibition of the Cardiac Na+/Ca2+ Exchanger. Journal of Biological Chemistry, 2006, 281, 7784-7792.	1.6	69
76	Cytoplasmic Tail of Phospholemman Interacts with the Intracellular Loop of the Cardiac Na+/Ca2+Exchanger. Journal of Biological Chemistry, 2006, 281, 32004-32014.	1.6	29
77	Serine 68 of phospholemman is critical in modulation of contractility, [Ca2+]i transients, and Na+/Ca2+ exchange in adult rat cardiac myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2342-H2354.	1.5	48
78	Serine 68 phosphorylation of phospholemman: acute isoform-specific activation of cardiac Na/K ATPase. Cardiovascular Research, 2005, 65, 93-103.	1.8	108
79	Serine 68 Phospholemman Phosphorylation during Forskolin-Induced Swine Carotid Artery Relaxation. Journal of Vascular Research, 2005, 42, 483-491.	0.6	35
80	Identification of an Endogenous Inhibitor of the Cardiac Na+/Ca2+ Exchanger, Phospholemman. Journal of Biological Chemistry, 2005, 280, 19875-19882.	1.6	54
81	Effects of phospholemman downregulation on contractility and [Ca2+]i transients in adult rat cardiac myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1322-H1330.	1.5	42
82	Exercise Training Improves Cardiac Function Postinfarction: Special Emphasis on Recent Controversies on Na+/Ca2+ Exchanger. Exercise and Sport Sciences Reviews, 2004, 32, 83-89.	1.6	10
83	A Novel TRPM2 Isoform Inhibits Calcium Influx and Susceptibility to Cell Death. Journal of Biological Chemistry, 2003, 278, 16222-16229.	1.6	207
84	Phospholemman modulates Na+/Ca2+exchange in adult rat cardiac myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H225-H233.	1.5	73
85	Overexpression of phospholemman alters contractility and [Ca²⁺]_itransients in adult rat myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H576-H583.	1.5	57
86	Effects of Na+/Ca2+ exchanger downregulation on contractility and [Ca2+]i transients in adult rat myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1616-H1626.	1.5	43
87	Sprint training shortens prolonged action potential duration in postinfarction rat myocyte: mechanisms. Journal of Applied Physiology, 2001, 90, 1720-1728.	1.2	26
88	Overexpression of Na⁺/Ca²⁺exchanger alters contractility and SR Ca²⁺content in adult rat myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2079-H2088.	1.5	51
89	In situ SR function in postinfarction myocytes. Journal of Applied Physiology, 1999, 87, 2143-2150.	1.2	37