

Xiongwen Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4229491/publications.pdf>

Version: 2024-02-01

110
papers

7,373
citations

50170

46
h-index

54797

84
g-index

114
all docs

114
docs citations

114
times ranked

10406
citing authors

#	ARTICLE	IF	CITATIONS
1	A peptide encoded by a transcript annotated as long noncoding RNA enhances SERCA activity in muscle. <i>Science</i> , 2016, 351, 271-275.	6.0	634
2	Cellular Basis of Abnormal Calcium Transients of Failing Human Ventricular Myocytes. <i>Circulation Research</i> , 2003, 92, 651-658.	2.0	420
3	Ca ²⁺ - and mitochondrial-dependent cardiomyocyte necrosis as a primary mediator of heart failure. <i>Journal of Clinical Investigation</i> , 2007, 117, 2431-2444.	3.9	359
4	The mitochondrial Na ⁺ /Ca ²⁺ exchanger is essential for Ca ²⁺ homeostasis and viability. <i>Nature</i> , 2017, 545, 93-97.	13.7	294
5	Bone marrow cells adopt the cardiomyogenic fate <i>in vivo</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17783-17788.	3.3	292
6	L-Type Ca ²⁺ Channel Density and Regulation Are Altered in Failing Human Ventricular Myocytes and Recover After Support With Mechanical Assist Devices. <i>Circulation Research</i> , 2002, 91, 517-524.	2.0	254
7	G Protein-Coupled Receptor Kinase 2 Ablation in Cardiac Myocytes Before or After Myocardial Infarction Prevents Heart Failure. <i>Circulation Research</i> , 2008, 103, 413-422.	2.0	210
8	Ca ²⁺ Influx-Induced Sarcoplasmic Reticulum Ca ²⁺ Overload Causes Mitochondrial-Dependent Apoptosis in Ventricular Myocytes. <i>Circulation Research</i> , 2005, 97, 1009-1017.	2.0	181
9	Dedifferentiation, Proliferation, and Redifferentiation of Adult Mammalian Cardiomyocytes After Ischemic Injury. <i>Circulation</i> , 2017, 136, 834-848.	1.6	174
10	GDF11 Does Not Rescue Aging-Related Pathological Hypertrophy. <i>Circulation Research</i> , 2015, 117, 926-932.	2.0	158
11	How to Improve the Survival of Transplanted Mesenchymal Stem Cell in Ischemic Heart?. <i>Stem Cells International</i> , 2016, 2016, 1-14.	1.2	158
12	Plasma long non-coding RNA, CoroMarker, a novel biomarker for diagnosis of coronary artery disease. <i>Clinical Science</i> , 2015, 129, 675-685.	1.8	145
13	Decreased cardiac L-type Ca ²⁺ channel activity induces hypertrophy and heart failure in mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 280-290.	3.9	145
14	Crucial Role of miR-433 in Regulating Cardiac Fibrosis. <i>Theranostics</i> , 2016, 6, 2068-2083.	4.6	134
15	CaMKII Negatively Regulates Calcineurin-NFAT Signaling in Cardiac Myocytes. <i>Circulation Research</i> , 2009, 105, 316-325.	2.0	129
16	Protein Kinase C δ , but Not PKC ϵ or PKC ζ , Regulates Contractility and Heart Failure Susceptibility. <i>Circulation Research</i> , 2009, 105, 194-200.	2.0	127
17	Cardiotoxic and Cardioprotective Features of Chronic β -Adrenergic Signaling. <i>Circulation Research</i> , 2013, 112, 498-509.	2.0	126
18	Paroxetine-mediated GRK2 inhibition reverses cardiac dysfunction and remodeling after myocardial infarction. <i>Science Translational Medicine</i> , 2015, 7, 277ra31.	5.8	126

#	ARTICLE	IF	CITATIONS
19	Adolescent Feline Heart Contains a Population of Small, Proliferative Ventricular Myocytes With Immature Physiological Properties. <i>Circulation Research</i> , 2007, 100, 536-544.	2.0	112
20	Transient Receptor Potential Channels Contribute to Pathological Structural and Functional Remodeling After Myocardial Infarction. <i>Circulation Research</i> , 2014, 115, 567-580.	2.0	101
21	Calcium influx through Cav1.2 is a proximal signal for pathological cardiomyocyte hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 460-470.	0.9	100
22	LETM1-dependent mitochondrial Ca ²⁺ flux modulates cellular bioenergetics and proliferation. <i>FASEB Journal</i> , 2014, 28, 4936-4949.	0.2	99
23	Prolyl Hydroxylase Domain Protein 2 Silencing Enhances the Survival and Paracrine Function of Transplanted Adipose-Derived Stem Cells in Infarcted Myocardium. <i>Circulation Research</i> , 2013, 113, 288-300.	2.0	97
24	STIM1 elevation in the heart results in aberrant Ca ²⁺ handling and cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 87, 38-47.	0.9	97
25	Targeting HO-1 by Epigallocatechin-3-Gallate Reduces Contrast-Induced Renal Injury via Anti-Oxidative Stress and Anti-Inflammation Pathways. <i>PLoS ONE</i> , 2016, 11, e0149032.	1.1	90
26	Neonatal Transplantation Confers Maturation of PSC-Derived Cardiomyocytes Conducive to Modeling Cardiomyopathy. <i>Cell Reports</i> , 2017, 18, 571-582.	2.9	90
27	Mitochondrial DNA Oxidative Damage Contributes to Cardiomyocyte Ischemia/Reperfusion Injury in Rats: Cardioprotective Role of Lycopene. <i>Journal of Cellular Physiology</i> , 2015, 230, 2128-2141.	2.0	89
28	Circulating lncRNA OTTHUMT00000387022 from monocytes as a novel biomarker for coronary artery disease. <i>Cardiovascular Research</i> , 2016, 112, 714-724.	1.8	88
29	Adrenergic Regulation of Cardiac Contractility Does Not Involve Phosphorylation of the Cardiac Ryanodine Receptor at Serine 2808. <i>Circulation Research</i> , 2008, 102, e65-72.	2.0	87
30	L-Type Ca ²⁺ Channel β_1 Subunit Isoform Switching in Failing Human Ventricular Myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2000, 32, 973-984.	0.9	85
31	Repair of the Injured Adult Heart Involves New Myocytes Potentially Derived From Resident Cardiac Stem Cells. <i>Circulation Research</i> , 2011, 108, 1226-1237.	2.0	85
32	Hyperphosphorylation of the Cardiac Ryanodine Receptor at Serine 2808 Is Not Involved in Cardiac Dysfunction After Myocardial Infarction. <i>Circulation Research</i> , 2012, 110, 831-840.	2.0	84
33	β_1 -dependent T-type Ca ²⁺ current antagonizes cardiac hypertrophy through a NOS3-dependent mechanism in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 3787-3796.	3.9	83
34	Alterations in Early Action Potential Repolarization Causes Localized Failure of Sarcoplasmic Reticulum Ca ²⁺ Release. <i>Circulation Research</i> , 2005, 96, 543-550.	2.0	81
35	Activation of Cannabinoid Receptor 2 Ameliorates DSS-Induced Colitis through Inhibiting NLRP3 Inflammasome in Macrophages. <i>PLoS ONE</i> , 2016, 11, e0155076.	1.1	78
36	Insulin Inhibits Cardiac Contractility by Inducing a Gi-Biased β_2 -Adrenergic Signaling in Hearts. <i>Diabetes</i> , 2014, 63, 2676-2689.	0.3	77

#	ARTICLE	IF	CITATIONS
37	Ca ²⁺ Influx Through T- and L-Type Ca ²⁺ Channels Have Different Effects on Myocyte Contractility and Induce Unique Cardiac Phenotypes. <i>Circulation Research</i> , 2008, 103, 1109-1119.	2.0	69
38	Phosphodiesterases coordinate cAMP propagation induced by two stimulatory G protein-coupled receptors in hearts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6578-6583.	3.3	67
39	Analyses of caspase-1-regulated transcriptomes in various tissues lead to identification of novel IL-1 β -, IL-18- and sirtuin-1-independent pathways. <i>Journal of Hematology and Oncology</i> , 2017, 10, 40.	6.9	64
40	Pim-1 kinase antagonizes aspects of myocardial hypertrophy and compensation to pathological pressure overload. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13889-13894.	3.3	61
41	Negative inotropic effects of high-mobility group box 1 protein in isolated contracting cardiac myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H1490-H1496.	1.5	60
42	Therapeutic effect of a novel Wnt pathway inhibitor on cardiac regeneration after myocardial infarction. <i>Clinical Science</i> , 2017, 131, 2919-2932.	1.8	58
43	Autophagy Plays an Important Role in Anti-inflammatory Mechanisms Stimulated by Alpha7 Nicotinic Acetylcholine Receptor. <i>Frontiers in Immunology</i> , 2017, 8, 553.	2.2	58
44	Regulated Overexpression of the A ₁ -Adenosine Receptor in Mice Results in Adverse but Reversible Changes in Cardiac Morphology and Function. <i>Circulation</i> , 2006, 114, 2240-2250.	1.6	56
45	GSK-3 β directly regulates β -adrenergic signaling and the response of the heart to hemodynamic stress in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 2280-2291.	3.9	54
46	Inflammation and cardiac dysfunction during sepsis, muscular dystrophy, and myocarditis. <i>Burns and Trauma</i> , 2013, 1, 109.	0.7	50
47	A cellular mechanism of muscle memory facilitates mitochondrial remodelling following resistance training. <i>Journal of Physiology</i> , 2018, 596, 4413-4426.	1.3	47
48	Interaction of the Joining Region in Junctophilin-2 With the L-Type Ca ²⁺ Channel Is Pivotal for Cardiac Dyad Assembly and Intracellular Ca ²⁺ Dynamics. <i>Circulation Research</i> , 2021, 128, 92-114.	2.0	45
49	Increasing Cardiac Contractility After Myocardial Infarction Exacerbates Cardiac Injury and Pump Dysfunction. <i>Circulation Research</i> , 2010, 107, 800-809.	2.0	43
50	Inhibition of type 5 phosphodiesterase counteracts β -adrenergic signalling in beating cardiomyocytes. <i>Cardiovascular Research</i> , 2015, 106, 408-420.	1.8	40
51	Protease-activated receptor 4 deficiency offers cardioprotection after acute ischemia reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 90, 21-29.	0.9	39
52	Fatty Acid Oxidation Promotes Cardiomyocyte Proliferation Rate but Does Not Change Cardiomyocyte Number in Infant Mice. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 42.	1.8	39
53	Role of STIM1 (Stromal Interaction Molecule 1) in Hypertrophy-Related Contractile Dysfunction. <i>Circulation Research</i> , 2017, 121, 125-136.	2.0	36
54	Evidence for K ⁺ -Dependent HCO ₃ ⁻ Utilization in the Marine Diatom <i>Phaeodactylum tricornutum</i> . <i>Plant Physiology</i> , 2006, 141, 731-736.	2.3	35

#	ARTICLE	IF	CITATIONS
55	β_1 -Adrenergic receptor activation induces mouse cardiac myocyte death through both L-type calcium channel-dependent and -independent pathways. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H322-H331.	1.5	35
56	Cardiac G-Protein-Coupled Receptor Kinase 2 Ablation Induces a Novel Ca^{2+} Handling Phenotype Resistant to Adverse Alterations and Remodeling After Myocardial Infarction. <i>Circulation</i> , 2012, 125, 2108-2118.	1.6	34
57	A novel porcupine inhibitor blocks WNT pathways and attenuates cardiac hypertrophy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3459-3467.	1.8	34
58	Potential of cardiac stem/progenitor cells and induced pluripotent stem cells for cardiac repair in ischaemic heart disease. <i>Clinical Science</i> , 2013, 125, 319-327.	1.8	33
59	Protein Kinase Inhibitor Peptide as a Tool to Specifically Inhibit Protein Kinase A. <i>Frontiers in Physiology</i> , 2020, 11, 574030.	1.3	33
60	Blunted cardiac beta-adrenergic response as an early indication of cardiac dysfunction in Duchenne muscular dystrophy. <i>Cardiovascular Research</i> , 2014, 103, 60-71.	1.8	32
61	Circulating α -PPAR-From Monocytes as a Novel Biomarker for Coronary Artery Diseases. <i>Medicine (United States)</i> , 2016, 95, e2360.	0.4	32
62	Cardiomyocyte PKA Ablation Enhances Basal Contractility While Eliminates Cardiac β_2 -Adrenergic Response Without Adverse Effects on the Heart. <i>Circulation Research</i> , 2019, 124, 1760-1777.	2.0	30
63	Reduced effects of BAY K 8644 on L-type Ca^{2+} current in failing human cardiac myocytes are related to abnormal adrenergic regulation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H2257-H2267.	1.5	28
64	Increased expression of Syne1/nesprin-1 facilitates nuclear envelope structure changes in embryonic stem cell differentiation. <i>Developmental Dynamics</i> , 2011, 240, 2245-2255.	0.8	27
65	β_2 -Adrenergic Stimulation Increases Cav3.1 Activity in Cardiac Myocytes through Protein Kinase A. <i>PLoS ONE</i> , 2012, 7, e39965.	1.1	27
66	miR-301a-PTEN-AKT Signaling Induces Cardiomyocyte Proliferation and Promotes Cardiac Repair Post-MI. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 22, 251-262.	2.3	26
67	Enhanced basal contractility but reduced excitation-contraction coupling efficiency and β_2 -adrenergic reserve of hearts with increased Cav1.2 activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H519-H528.	1.5	25
68	The β_1 isoform of calmodulin kinase II mediates pathological cardiac hypertrophy by interfering with the HDAC4-MEF2 signaling pathway. <i>Biochemical and Biophysical Research Communications</i> , 2011, 409, 125-130.	1.0	25
69	Persistent increases in Ca^{2+} influx through Cav1.2 shortens action potential and causes Ca^{2+} overload-induced afterdepolarizations and arrhythmias. <i>Basic Research in Cardiology</i> , 2016, 111, 4.	2.5	25
70	Gastrin Protects Against Myocardial Ischemia/Reperfusion Injury via Activation of RISK (Reperfusion) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 <i>American Heart Association</i> , 2018, 7, .	1.6	24
71	Compartmentalization of β_2 -adrenergic signals in cardiomyocytes. <i>Trends in Cardiovascular Medicine</i> , 2013, 23, 250-256.	2.3	23
72	Protein Kinase D3 Is a Pivotal Activator of Pathological Cardiac Hypertrophy by Selectively Increasing the Expression of Hypertrophic Transcription Factors. <i>Journal of Biological Chemistry</i> , 2011, 286, 40782-40791.	1.6	22

#	ARTICLE	IF	CITATIONS
73	Calcineurin inhibition normalizes β_2 -adrenergic responsiveness in the spontaneously hypertensive rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H3122-H3129.	1.5	19
74	Caveolae-localized L-type Ca^{2+} channels do not contribute to function or hypertrophic signalling in the mouse heart. <i>Cardiovascular Research</i> , 2017, 113, 749-759.	1.8	19
75	Regulation of L-type calcium channel by phospholemman in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 84, 104-111.	0.9	18
76	Intracellular sodium determines frequency-dependent alterations in contractility in hypertrophied feline ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H1129-H1138.	1.5	15
77	Increasing T-type calcium channel activity by β_2 -adrenergic stimulation contributes to β_2 -adrenergic regulation of heart rates. <i>Journal of Physiology</i> , 2018, 596, 1137-1151.	1.3	15
78	T-type Ca^{2+} channels regulate the exit of cardiac myocytes from the cell cycle after birth. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 62, 122-130.	0.9	14
79	Cardiac troponin I exacerbates myocardial ischaemia/reperfusion injury by inducing the adhesion of monocytes to vascular endothelial cells via a TLR4/NF- κ B-dependent pathway. <i>Clinical Science</i> , 2016, 130, 2279-2293.	1.8	14
80	Metformin promotes the survival of transplanted cardiosphere-derived cells thereby enhancing their therapeutic effect against myocardial infarction. <i>Stem Cell Research and Therapy</i> , 2017, 8, 17.	2.4	14
81	Reduced Myocardial Reserve in Young X-Linked Muscular Dystrophy Mice Diagnosed by Two-Dimensional Strain Analysis Combined with Stress Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2017, 30, 815-827.e9.	1.2	12
82	Remodeling of repolarization and arrhythmia susceptibility in a myosin-binding protein C knockout mouse model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H620-H630.	1.5	12
83	Acetylation of SERCA2a, Another Target for Heart Failure Treatment?. <i>Circulation Research</i> , 2019, 124, 1285-1287.	2.0	12
84	Combined administration of anisodamine and neostigmine rescued acute lethal crush syndrome through 7α AChR-dependent JAK2-STAT3 signaling. <i>Scientific Reports</i> , 2016, 6, 37709.	1.6	10
85	Syngeneic AAV Pseudo-particles Potentiate Gene Transduction of AAV Vectors. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 4, 149-158.	1.8	10
86	Hepatic PKA inhibition accelerates the lipid accumulation in liver. <i>Nutrition and Metabolism</i> , 2019, 16, 69.	1.3	10
87	Inhibition of angiotensin II Gq signaling augments β_2 -adrenergic receptor mediated effects in a renal artery stenosis model of high blood pressure. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 100-107.	0.9	8
88	Preclinical cardiovascular changes in children with obesity: A real-time 3-dimensional speckle tracking imaging study. <i>PLoS ONE</i> , 2018, 13, e0205177.	1.1	8
89	Cross talk between serine/threonine and tyrosine kinases regulates ADP-induced thromboxane generation in platelets. <i>Thrombosis and Haemostasis</i> , 2015, 114, 558-568.	1.8	7
90	With or Without Langendorff. <i>Circulation Research</i> , 2016, 119, 888-890.	2.0	7

#	ARTICLE	IF	CITATIONS
91	Phosphorus limitation for the colony formation, growth and photosynthesis of an edible cyanobacterium, <i>Nostoc sphaeroides</i> . <i>Biotechnology Letters</i> , 2012, 34, 137-143.	1.1	6
92	LIGHT DEPENDENCY OF PHOTOSYNTHETIC RECOVERY DURING WETTING AND THE ACCLIMATION OF PHOTOSYNTHETIC APPARATUS TO LIGHT FLUCTUATION IN A TERRESTRIAL CYANOBACTERIUM <i>NOSTOC COMMUNE</i> . <i>Journal of Phycology</i> , 2011, 47, 1063-1071.	1.0	5
93	Physiological profiles associated with ceasing growth of unfertilized eggs produced by unmated queens in the subterranean termite <i>Reticulitermes chinensis</i> . <i>Biology Open</i> , 2016, 5, 756-763.	0.6	3
94	Bazedoxifene Regulates Th17 Immune Response to Ameliorate Experimental Autoimmune myocarditis via Inhibition of STAT3 Activation. <i>Frontiers in Pharmacology</i> , 2020, 11, 613160.	1.6	3
95	Effect of Cl ⁻ on photosynthetic bicarbonate uptake in two cyanobacteria <i>Microcystis aeruginosa</i> and <i>Synechocystis PCC6803</i> . <i>Science Bulletin</i> , 2009, 54, 1197-1203.	4.3	2
96	A low voltage activated Ca ²⁺ current found in a subset of human ventricular myocytes. <i>Channels</i> , 2020, 14, 231-245.	1.5	2
97	GW25-e5273 Manipulating PHD2 to Promote the Therapeutic Effect of Stem Cell Transplantation for Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2014, 64, C12-C13.	1.2	1
98	Paroxetine-Mediated GRK2 Inhibition Reverses Cardiac Dysfunction and Remodeling After Myocardial Infarction. <i>Journal of Cardiac Failure</i> , 2015, 21, S109.	0.7	1
99	Phosphodiesterase III (PDE III) inhibition potentiates Ca-induced, not voltage-gated, sarcoplasmic reticulum Ca release. <i>Journal of Molecular and Cellular Cardiology</i> , 2001, 33, A20.	0.9	0
100	Constitutive Activation of CaMKII Reduces Cardiac Function and Viability in Feline Ventricular Myocytes. <i>Journal of Cardiac Failure</i> , 2007, 13, S94-S95.	0.7	0
101	Calcium Signaling Simultaneously Activates Hypertrophic Gene Transcription and Impairs Contractility in Cardiac Myocytes. <i>Journal of Cardiac Failure</i> , 2007, 13, S85.	0.7	0
102	Enhancement of the Cav3.1 Channel Activity by PKA in Ventricular Myocytes of a1G Transgenic Mice. <i>Biophysical Journal</i> , 2009, 96, 182a.	0.2	0
103	Increasing Cardiac Contractility after Myocardial Infarction Exacerbates Cardiac Injury and Pump Dysfunction. <i>Biophysical Journal</i> , 2009, 96, 258a.	0.2	0
104	Blebbistatin Protects Rodent Myocytes from Death in Primary Culture via Inhibiting Na/Ca Exchange. <i>Biophysical Journal</i> , 2011, 100, 579a.	0.2	0
105	GW28-e1093 Features of Adult Mammalian Cardiomyocyte Proliferation with Complete Cytokinesis. <i>Journal of the American College of Cardiology</i> , 2017, 70, C43.	1.2	0
106	Research on the Expression and Regulatory Mechanism of Breast Cancer Susceptibility Gene-1 on Cell of Skin Cancer in Different Classification. <i>Journal of Biomaterials and Tissue Engineering</i> , 2021, 11, 756-760.	0.0	0
107	Cav ² 2a TG mice treated with high fat diet and is a model for HFpEF. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
108	Pharmacology of L-Type and T-Type Calcium Channels in the Heart. , 2004, , 133-142.		0

#	ARTICLE	IF	CITATIONS
109	Abstract 21022: Increasing Cav1.2 in Smooth Muscle Cells Induces Both Systemic and Pulmonary Hypertension via Inhibiting Endothelium-Dependent Relaxation. <i>Circulation</i> , 2017, 136, .	1.6	0
110	Abstract 20966: Increasing Cav1.2 in Smooth Muscle Cells Has Different Effects on Vascular Remodeling Dependent of Insults. <i>Circulation</i> , 2017, 136, .	1.6	0