

# Xiongwen Chen

## List of Publications by Citations

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97  
papers

5,824  
citations

42  
h-index

75  
g-index

114  
ext. papers

6,754  
ext. citations

9  
avg, IF

5.12  
L-index

#	Paper	IF	Citations
97	A peptide encoded by a transcript annotated as long noncoding RNA enhances SERCA activity in muscle. <i>Science</i> , <b>2016</b> , 351, 271-5	33.3	439
96	Cellular basis of abnormal calcium transients of failing human ventricular myocytes. <i>Circulation Research</i> , <b>2003</b> , 92, 651-8	15.7	363
95	Ca <sup>2+</sup> - and mitochondrial-dependent cardiomyocyte necrosis as a primary mediator of heart failure. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 2431-44	15.9	317
94	Bone marrow cells adopt the cardiomyogenic fate in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 17783-8	11.5	261
93	L-type Ca <sup>2+</sup> channel density and regulation are altered in failing human ventricular myocytes and recover after support with mechanical assist devices. <i>Circulation Research</i> , <b>2002</b> , 91, 517-24	15.7	229
92	The mitochondrial Na/Ca exchanger is essential for Ca homeostasis and viability. <i>Nature</i> , <b>2017</b> , 545, 93-97	30.4	203
91	G protein-coupled receptor kinase 2 ablation in cardiac myocytes before or after myocardial infarction prevents heart failure. <i>Circulation Research</i> , <b>2008</b> , 103, 413-22	15.7	186
90	Ca <sup>2+</sup> influx-induced sarcoplasmic reticulum Ca <sup>2+</sup> overload causes mitochondrial-dependent apoptosis in ventricular myocytes. <i>Circulation Research</i> , <b>2005</b> , 97, 1009-17	15.7	154
89	GDF11 does not rescue aging-related pathological hypertrophy. <i>Circulation Research</i> , <b>2015</b> , 117, 926-32	15.7	124
88	Decreased cardiac L-type Ca <sup>v1+</sup> channel activity induces hypertrophy and heart failure in mice. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 280-90	15.9	123
87	Plasma long non-coding RNA, CoroMarker, a novel biomarker for diagnosis of coronary artery disease. <i>Clinical Science</i> , <b>2015</b> , 129, 675-85	6.5	119
86	How to Improve the Survival of Transplanted Mesenchymal Stem Cell in Ischemic Heart?. <i>Stem Cells International</i> , <b>2016</b> , 2016, 9682757	5	115
85	Protein kinase C{alpha}, but not PKC{beta} or PKC{gamma}, regulates contractility and heart failure susceptibility: implications for ruboxistaurin as a novel therapeutic approach. <i>Circulation Research</i> , <b>2009</b> , 105, 194-200	15.7	113
84	CaMKII negatively regulates calcineurin-NFAT signaling in cardiac myocytes. <i>Circulation Research</i> , <b>2009</b> , 105, 316-25	15.7	104
83	Cardiotoxic and cardioprotective features of chronic $\beta$ -adrenergic signaling. <i>Circulation Research</i> , <b>2013</b> , 112, 498-509	15.7	102
82	Adolescent feline heart contains a population of small, proliferative ventricular myocytes with immature physiological properties. <i>Circulation Research</i> , <b>2007</b> , 100, 536-44	15.7	102
81	Dedifferentiation, Proliferation, and Redifferentiation of Adult Mammalian Cardiomyocytes After Ischemic Injury. <i>Circulation</i> , <b>2017</b> , 136, 834-848	16.7	101

80	Crucial Role of miR-433 in Regulating Cardiac Fibrosis. <i>Theranostics</i> , <b>2016</b> , 6, 2068-2083	12.1	100
79	Paroxetine-mediated GRK2 inhibition reverses cardiac dysfunction and remodeling after myocardial infarction. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 277ra31	17.5	99
78	Calcium influx through Cav1.2 is a proximal signal for pathological cardiomyocyte hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2011</b> , 50, 460-70	5.8	88
77	Transient receptor potential channels contribute to pathological structural and functional remodeling after myocardial infarction. <i>Circulation Research</i> , <b>2014</b> , 115, 567-580	15.7	84
76	L-type Ca <sup>2+</sup> channel alpha 1c subunit isoform switching in failing human ventricular myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2000</b> , 32, 973-84	5.8	82
75	LETM1-dependent mitochondrial Ca <sup>2+</sup> flux modulates cellular bioenergetics and proliferation. <i>FASEB Journal</i> , <b>2014</b> , 28, 4936-49	0.9	80
74	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> , <b>2013</b> , 113, 288-300	15.7	77
73	Adrenergic regulation of cardiac contractility does not involve phosphorylation of the cardiac ryanodine receptor at serine 2808. <i>Circulation Research</i> , <b>2008</b> , 102, e65-72	15.7	77
72	STIM1 elevation in the heart results in aberrant Ca <sup>2+</sup> handling and cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 87, 38-47	5.8	76
71	Hyperphosphorylation of the cardiac ryanodine receptor at serine 2808 is not involved in cardiac dysfunction after myocardial infarction. <i>Circulation Research</i> , <b>2012</b> , 110, 831-40	15.7	75
70	alpha1G-dependent T-type Ca <sup>2+</sup> current antagonizes cardiac hypertrophy through a NOS3-dependent mechanism in mice. <i>Journal of Clinical Investigation</i> , <b>2009</b> , 119, 3787-96	15.9	75
69	Circulating lncRNA OTTHUMT00000387022R from monocytes as a novel biomarker for coronary artery disease. <i>Cardiovascular Research</i> , <b>2016</b> , 112, 714-724	9.9	74
68	Mitochondrial DNA oxidative damage contributes to cardiomyocyte ischemia/reperfusion-injury in rats: cardioprotective role of lycopene. <i>Journal of Cellular Physiology</i> , <b>2015</b> , 230, 2128-41	7	72
67	Repair of the injured adult heart involves new myocytes potentially derived from resident cardiac stem cells. <i>Circulation Research</i> , <b>2011</b> , 108, 1226-37	15.7	72
66	Alterations in early action potential repolarization causes localized failure of sarcoplasmic reticulum Ca <sup>2+</sup> release. <i>Circulation Research</i> , <b>2005</b> , 96, 543-50	15.7	69
65	Targeting HO-1 by Epigallocatechin-3-Gallate Reduces Contrast-Induced Renal Injury via Anti-Oxidative Stress and Anti-Inflammation Pathways. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149032	3.7	66
64	Neonatal Transplantation Confers Maturation of PSC-Derived Cardiomyocytes Conducive to Modeling Cardiomyopathy. <i>Cell Reports</i> , <b>2017</b> , 18, 571-582	10.6	63
63	Ca <sup>2+</sup> influx through T- and L-type Ca <sup>2+</sup> channels have different effects on myocyte contractility and induce unique cardiac phenotypes. <i>Circulation Research</i> , <b>2008</b> , 103, 1109-19	15.7	63

62	Insulin inhibits cardiac contractility by inducing a Gi-biased $\beta_2$ -adrenergic signaling in hearts. <i>Diabetes</i> , <b>2014</b> , 63, 2676-89	0.9	60
61	Activation of Cannabinoid Receptor 2 Ameliorates DSS-Induced Colitis through Inhibiting NLRP3 Inflammasome in Macrophages. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155076	3.7	57
60	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> , <b>2012</b> , 109, 6578-83	11.5	56
59	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> , <b>2008</b> , 105, 13889-94	11.5	55
58	Regulated overexpression of the A1-adenosine receptor in mice results in adverse but reversible changes in cardiac morphology and function. <i>Circulation</i> , <b>2006</b> , 114, 2240-50	16.7	53
57	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> , <b>2008</b> , 294, H1490-6	5.2	48
56	GSK-3alpha directly regulates beta-adrenergic signaling and the response of the heart to hemodynamic stress in mice. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 2280-91	15.9	44
55	Therapeutic effect of a novel Wnt pathway inhibitor on cardiac regeneration after myocardial infarction. <i>Clinical Science</i> , <b>2017</b> , 131, 2919-2932	6.5	38
54	Analyses of caspase-1-regulated transcriptomes in various tissues lead to identification of novel IL-1 $\beta$ , IL-18- and sirtuin-1-independent pathways. <i>Journal of Hematology and Oncology</i> , <b>2017</b> , 10, 40	22.4	35
53	Inflammation and cardiac dysfunction during sepsis, muscular dystrophy, and myocarditis. <i>Burns and Trauma</i> , <b>2013</b> , 1, 109-21		35
52	Increasing cardiac contractility after myocardial infarction exacerbates cardiac injury and pump dysfunction. <i>Circulation Research</i> , <b>2010</b> , 107, 800-9	15.7	35
51	Autophagy Plays an Important Role in Anti-inflammatory Mechanisms Stimulated by Alpha7 Nicotinic Acetylcholine Receptor. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 553	8.4	33
50	Potential of cardiac stem/progenitor cells and induced pluripotent stem cells for cardiac repair in ischaemic heart disease. <i>Clinical Science</i> , <b>2013</b> , 125, 319-27	6.5	31
49	Inhibition of type 5 phosphodiesterase counteracts $\beta_2$ -adrenergic signalling in beating cardiomyocytes. <i>Cardiovascular Research</i> , <b>2015</b> , 106, 408-20	9.9	29
48	A cellular mechanism of muscle memory facilitates mitochondrial remodelling following resistance training. <i>Journal of Physiology</i> , <b>2018</b> , 596, 4413-4426	3.9	29
47	{beta}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> , <b>2010</b> , 299, H322-31	5.2	29
46	Cardiac G-protein-coupled receptor kinase 2 ablation induces a novel Ca <sup>2+</sup> handling phenotype resistant to adverse alterations and remodeling after myocardial infarction. <i>Circulation</i> , <b>2012</b> , 125, 2108-18	16.7	29
45	Role of STIM1 (Stromal Interaction Molecule 1) in Hypertrophy-Related Contractile Dysfunction. <i>Circulation Research</i> , <b>2017</b> , 121, 125-136	15.7	27

44	Blunted cardiac beta-adrenergic response as an early indication of cardiac dysfunction in Duchenne muscular dystrophy. <i>Cardiovascular Research</i> , <b>2014</b> , 103, 60-71	9.9	27
43	Circulating "LncPPAR $\beta$ " From Monocytes as a Novel Biomarker for Coronary Artery Diseases. <i>Medicine (United States)</i> , <b>2016</b> , 95, e2360	1.8	27
42	A novel porcupine inhibitor blocks WNT pathways and attenuates cardiac hypertrophy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2018</b> , 1864, 3459-3467	6.9	24
41	$\beta$ -Adrenergic stimulation increases Cav3.1 activity in cardiac myocytes through protein kinase A. <i>PLoS ONE</i> , <b>2012</b> , 7, e39965	3.7	24
40	Protease-activated receptor 4 deficiency offers cardioprotection after acute ischemia reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2016</b> , 90, 21-9	5.8	23
39	The $\beta$ isoform of calmodulin kinase II mediates pathological cardiac hypertrophy by interfering with the HDAC4-MEF2 signaling pathway. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 409, 125-30	3.4	22
38	Reduced effects of BAY K 8644 on L-type Ca <sup>2+</sup> current in failing human cardiac myocytes are related to abnormal adrenergic regulation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2008</b> , 294, H2257-67	5.2	22
37	Cardiomyocyte PKA Ablation Enhances Basal Contractility While Eliminates Cardiac $\beta$ -Adrenergic Response Without Adverse Effects on the Heart. <i>Circulation Research</i> , <b>2019</b> , 124, 1760-1777	15.7	21
36	Enhanced basal contractility but reduced excitation-contraction coupling efficiency and beta-adrenergic reserve of hearts with increased Cav1.2 activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 299, H519-28	5.2	21
35	Gastrin Protects Against Myocardial Ischemia/Reperfusion Injury via Activation of RISK (Reperfusion Injury Salvage Kinase) and SAFE (Survivor Activating Factor Enhancement) Pathways. <i>Journal of the American Heart Association</i> , <b>2018</b> , 7,	6	20
34	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> , <b>2011</b> , 286, 40782-91	5.4	20
33	Calcineurin inhibition normalizes beta-adrenergic responsiveness in the spontaneously hypertensive rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 293, H3122-9	5.2	19
32	Interaction of the Joining Region in Junctophilin-2 With the L-Type Ca Channel Is Pivotal for Cardiac Dyad Assembly and Intracellular Ca Dynamics. <i>Circulation Research</i> , <b>2021</b> , 128, 92-114	15.7	19
31	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> , <b>2016</b> , 111, 4	11.8	18
30	Increased expression of Syne1/nesprin-1 facilitates nuclear envelope structure changes in embryonic stem cell differentiation. <i>Developmental Dynamics</i> , <b>2011</b> , 240, 2245-55	2.9	18
29	Caveolae-localized L-type Ca <sup>2+</sup> channels do not contribute to function or hypertrophic signalling in the mouse heart. <i>Cardiovascular Research</i> , <b>2017</b> , 113, 749-759	9.9	17
28	Fatty Acid Oxidation Promotes Cardiomyocyte Proliferation Rate but Does Not Change Cardiomyocyte Number in Infant Mice. <i>Frontiers in Cell and Developmental Biology</i> , <b>2019</b> , 7, 42	5.7	17
27	Compartmentalization of $\beta$ -adrenergic signals in cardiomyocytes. <i>Trends in Cardiovascular Medicine</i> , <b>2013</b> , 23, 250-6	6.9	16

26	Evidence for K <sup>+</sup> -dependent HCO <sub>3</sub> <sup>-</sup> utilization in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Plant Physiology</i> , <b>2006</b> , 141, 731-6	6.6	16
25	Intracellular sodium determines frequency-dependent alterations in contractility in hypertrophied feline ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 292, H1129-38	5.2	15
24	T-type Ca <sup>2+</sup> channels regulate the exit of cardiac myocytes from the cell cycle after birth. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2013</b> , 62, 122-30	5.8	14
23	Regulation of L-type calcium channel by phospholemman in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 84, 104-11	5.8	13
22	Protein Kinase Inhibitor Peptide as a Tool to Specifically Inhibit Protein Kinase A. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 574030	4.6	12
21	Increasing T-type calcium channel activity by $\beta$ -adrenergic stimulation contributes to $\beta$ -adrenergic regulation of heart rates. <i>Journal of Physiology</i> , <b>2018</b> , 596, 1137-1151	3.9	10
20	Cardiac troponin I exacerbates myocardial ischaemia/reperfusion injury by inducing the adhesion of monocytes to vascular endothelial cells via a TLR4/NF- $\kappa$ B-dependent pathway. <i>Clinical Science</i> , <b>2016</b> , 130, 2279-2293	6.5	10
19	Metformin promotes the survival of transplanted cardiosphere-derived cells thereby enhancing their therapeutic effect against myocardial infarction. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 17	8.3	10
18	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> , <b>2017</b> , 30, 815-827.e9	5.8	8
17	Combined administration of anisodamine and neostigmine rescued acute lethal crush syndrome through $\alpha$ nAChR-dependent JAK2-STAT3 signaling. <i>Scientific Reports</i> , <b>2016</b> , 6, 37709	4.9	7
16	Cross talk between serine/threonine and tyrosine kinases regulates ADP-induced thromboxane generation in platelets. <i>Thrombosis and Haemostasis</i> , <b>2015</b> , 114, 558-68	7	7
15	miR-301a-PTEN-AKT Signaling Induces Cardiomyocyte Proliferation and Promotes Cardiac Repair Post-MI. <i>Molecular Therapy - Nucleic Acids</i> , <b>2020</b> , 22, 251-262	10.7	7
14	Syngeneic AAV Pseudo-particles Potentiate Gene Transduction of AAV Vectors. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2017</b> , 4, 149-158	6.4	6
13	Inhibition of angiotensin II Gq signaling augments beta-adrenergic receptor mediated effects in a renal artery stenosis model of high blood pressure. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2009</b> , 46, 100-7	5.8	6
12	Preclinical cardiovascular changes in children with obesity: A real-time 3-dimensional speckle tracking imaging study. <i>PLoS ONE</i> , <b>2018</b> , 13, e0205177	3.7	6
11	Phosphorus limitation for the colony formation, growth and photosynthesis of an edible cyanobacterium, <i>Nostoc sphaeroides</i> . <i>Biotechnology Letters</i> , <b>2012</b> , 34, 137-43	3	5
10	LIGHT DEPENDENCY OF PHOTOSYNTHETIC RECOVERY DURING WETTING AND THE ACCLIMATION OF PHOTOSYNTHETIC APPARATUS TO LIGHT FLUCTUATION IN A TERRESTRIAL CYANOBACTERIUM NOSTOC COMMUNE(1). <i>Journal of Phycology</i> , <b>2011</b> , 47, 1063-71	3	4
9	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> , <b>2017</b> , 313, H620-H630	5.2	3

8	Effect of $ClO_2$ on photosynthetic bicarbonate uptake in two cyanobacteria <i>Microcystis aeruginosa</i> and <i>Synechocystis PCC6803</i> . <i>Science Bulletin</i> , <b>2009</b> , 54, 1197-1203	10.6	2
7	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> , <b>2016</b> , 5, 756-63	2.2	2
6	Hepatic PKA inhibition accelerates the lipid accumulation in liver. <i>Nutrition and Metabolism</i> , <b>2019</b> , 16, 69	4.6	1
5	Bazedoxifene Regulates Th17 Immune Response to Ameliorate Experimental Autoimmune myocarditis via Inhibition of STAT3 Activation. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 613160	5.6	1
4	A low voltage activated Ca current found in a subset of human ventricular myocytes. <i>Channels</i> , <b>2020</b> , 14, 231-245	3	0
3	Phenotype and Function of c-kit <sup>+</sup> -derived Amplifying Myocytes <b>2007</b> , 77-85		
2	Pharmacology of L-Type and T-Type Calcium Channels in the Heart <b>2004</b> , 133-142		
1	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> , <b>2021</b> , 11, 756-760	0.3	