

# Wenjun Xie

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7416768/publications.pdf>

Version: 2024-02-01

42  
papers

2,813  
citations

361296  
20  
h-index

289141  
40  
g-index

47  
all docs

47  
docs citations

47  
times ranked

4391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial calcium overload is a key determinant in heart failure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11389-11394.	3.3	402
2	Ryanodine Receptor Oxidation Causes Intracellular Calcium Leak and Muscle Weakness in Aging. Cell Metabolism, 2011, 14, 196-207.	7.2	335
3	Excess TGF- $\beta$ 2 mediates muscle weakness associated with bone metastases in mice. Nature Medicine, 2015, 21, 1262-1271.	15.2	300
4	Mitochondrial oxidative stress promotes atrial fibrillation. Scientific Reports, 2015, 5, 11427.	1.6	216
5	Calcium release channel RyR2 regulates insulin release and glucose homeostasis. Journal of Clinical Investigation, 2015, 125, 1968-1978.	3.9	178
6	Calcium Leak Through Ryanodine Receptors Leads to Atrial Fibrillation in 3 Mouse Models of Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation Research, 2012, 111, 708-717.	2.0	162
7	Role of Leaky Neuronal Ryanodine Receptors in Stress- Induced Cognitive Dysfunction. Cell, 2012, 150, 1055-1067.	13.5	132
8	Bidirectional regulation of Ca <sup>2+</sup> sparks by mitochondria-derived reactive oxygen species in cardiac myocytes. Cardiovascular Research, 2008, 77, 432-441.	1.8	130
9	Cardioprotection of Ischemia/Reperfusion Injury by Cholesterol-Dependent MG53-Mediated Membrane Repair. Circulation Research, 2010, 107, 76-83.	2.0	128
10	Genetically enhancing mitochondrial antioxidant activity improves muscle function in aging. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15250-15255.	3.3	128
11	Rad As a Novel Regulator of Excitation- Contraction Coupling and $\beta$ -Adrenergic Signaling in Heart. Circulation Research, 2010, 106, 317-327.	2.0	77
12	Functional Consequence of Protein Kinase A-dependent Phosphorylation of the Cardiac Ryanodine Receptor. Journal of Biological Chemistry, 2007, 282, 30256-30264.	1.6	72
13	Quarky Calcium Release in the Heart. Circulation Research, 2011, 108, 210-218.	2.0	70
14	An anomalous subdiffusion model for calcium spark in cardiac myocytes. Applied Physics Letters, 2007, 91, .	1.5	65
15	Imaging atrial arrhythmic intracellular calcium in intact heart. Journal of Molecular and Cellular Cardiology, 2013, 64, 120-123.	0.9	62
16	Superoxide Flashes Reveal Novel Properties of Mitochondrial Reactive Oxygen Species Excitability in Cardiomyocytes. Biophysical Journal, 2012, 102, 1011-1021.	0.2	56
17	Short-coupled polymorphic ventricular tachycardia at rest linked to a novel ryanodine receptor (RyR2) mutation: Leaky RyR2 channels under non-stress conditions. International Journal of Cardiology, 2015, 180, 228-236.	0.8	42
18	Manipulating L-type calcium channels in cardiomyocytes using split-intein protein transsplicing. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15461-15466.	3.3	34

#	ARTICLE	IF	CITATIONS
19	Stretch-induced sarcoplasmic reticulum calcium leak is causatively associated with atrial fibrillation in pressure-overloaded hearts. <i>Cardiovascular Research</i> , 2021, 117, 1091-1102.	1.8	27
20	Structural basis for activity of TRIC counter-ion channels in calcium release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4238-4243.	3.3	26
21	Oxidation of Ryanodine Receptors Promotes Ca <sup>2+</sup> Leakage and Contributes to Right Ventricular Dysfunction in Pulmonary Hypertension. <i>Hypertension</i> , 2021, 77, 59-71.	1.3	20
22	Deciphering ryanodine receptor array operation in cardiac myocytes. <i>Journal of General Physiology</i> , 2010, 136, 129-133.	0.9	19
23	Cardiac $\beta_2$ -adrenergic receptor activation mediates distinct and cell type-dependent changes in the expression and distribution of connexin 43. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 8505-8517.	1.6	16
24	Cell micropatterning reveals the modulatory effect of cell shape on proliferation through intracellular calcium transients. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 2389-2401.	1.9	14
25	Acute pancreatic beta cell apoptosis by IL-1 $\beta$ is responsible for postburn hyperglycemia: Evidence from humans and mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 275-284.	1.8	11
26	CMYA5 establishes cardiac dyad architecture and positioning. <i>Nature Communications</i> , 2022, 13, 2185.	5.8	10
27	A novel stochastic reaction-diffusion model of Ca <sup>2+</sup> blink in cardiac myocytes. <i>Science Bulletin</i> , 2017, 62, 5-8.	4.3	9
28	Excess sarcoplasmic reticulum-mitochondria calcium transport induced by Sphingosine-1-phosphate contributes to cardiomyocyte hypertrophy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 118970.	1.9	7
29	Role of oxidation of excitation-contraction coupling machinery in age-dependent loss of muscle function in <i>Caenorhabditis elegans</i> . <i>ELife</i> , 2022, 11, .	2.8	6
30	Flash Sniper: Automated Detection and Analysis of Mitochondrial Superoxide Flash. <i>Biophysical Journal</i> , 2009, 96, 531a-532a.	0.2	5
31	Imaging Sarcoplasmic Reticulum Ca <sup>2+</sup> Signaling in Intact Cardiac Myocytes. <i>Circulation</i> , 2020, 142, 1503-1505.	1.6	5
32	The Assessment of Autonomic Nervous System Activity Based on Photoplethysmography in Healthy Young Men. <i>Frontiers in Physiology</i> , 2021, 12, 733264.	1.3	5
33	Calcium Spark Detection and Event-Based Classification of Single Cardiomyocyte Using Deep Learning. <i>Frontiers in Physiology</i> , 2021, 12, 770051.	1.3	4
34	Simulation of intracellular $\text{Ca}^{2+}$ transients in osteoblasts induced by fluid shear stress and its application. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 509-520.	1.4	3
35	Theoretical study on the bifurcation of vortexes structure for flow in curved tube. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2000, 21, 1345-1358.	1.9	1
36	Basic function method. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2009, 52, 2016-2026.	0.2	1

#	ARTICLE	IF	CITATIONS
37	Quarky Calcium Sparks in Heart. Biophysical Journal, 2009, 96, 21a-22a.	0.2	1
38	C. Elegans as a Model to Study Ryanodine Receptor Function in Aging. Biophysical Journal, 2014, 106, 111a.	0.2	1
39	Cardiovascular Disease Prediction Model Based on Logistic Regression and Euclidean Distance. , 2021, , .		1
40	Exogenous nucleic acids aggregate in non-P-body cytoplasmic granules when transfected into cultured cells. Frontiers in Biology, 2010, 5, 272-281.	0.7	0
41	Preventing Ryanodine Receptor 1 calcium Leak Improves Age-Dependent Muscle Dysfunction. Biophysical Journal, 2011, 100, 287a-288a.	0.2	0
42	The Role of Calcium Leak in Age-Dependent Loss of C. Elegans Muscle Function. Biophysical Journal, 2017, 112, 232a.	0.2	0