

Long-Sheng Song

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5284450/long-sheng-song-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

8,258
citations

45
h-index

90
g-index

103
ext. papers

9,325
ext. citations

11.9
avg, IF

5.28
L-index

#	Paper	IF	Citations
95	Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death. <i>Nature</i> , 2003 , 421, 634-9	50.4	812
94	FKBP12.6 deficiency and defective calcium release channel (ryanodine receptor) function linked to exercise-induced sudden cardiac death. <i>Cell</i> , 2003 , 113, 829-40	56.2	589
93	Calmodulin kinase II inhibition protects against structural heart disease. <i>Nature Medicine</i> , 2005 , 11, 409-15	50.5	465
92	Calcium flickers steer cell migration. <i>Nature</i> , 2009 , 457, 901-5	50.4	452
91	Orphaned ryanodine receptors in the failing heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 4305-10	11.5	347
90	Ca ²⁺ signalling between single L-type Ca ²⁺ channels and ryanodine receptors in heart cells. <i>Nature</i> , 2001 , 410, 592-6	50.4	343
89	CaMKII determines mitochondrial stress responses in heart. <i>Nature</i> , 2012 , 491, 269-73	50.4	290
88	T-tubule remodeling during transition from hypertrophy to heart failure. <i>Circulation Research</i> , 2010 , 107, 520-31	15.7	290
87	Amplitude distribution of calcium sparks in confocal images: theory and studies with an automatic detection method. <i>Biophysical Journal</i> , 1999 , 76, 606-17	2.9	240
86	Local control models of cardiac excitation-contraction coupling. A possible role for allosteric interactions between ryanodine receptors. <i>Journal of General Physiology</i> , 1999 , 113, 469-89	3.4	225
85	Oxidized Ca(2+)/calmodulin-dependent protein kinase II triggers atrial fibrillation. <i>Circulation</i> , 2013 , 128, 1748-57	16.7	186
84	Stabilization of cardiac ryanodine receptor prevents intracellular calcium leak and arrhythmias. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7906-10	11.5	180
83	Carvedilol and its new analogs suppress arrhythmogenic store overload-induced Ca ²⁺ release. <i>Nature Medicine</i> , 2011 , 17, 1003-9	50.5	157
82	Direct measurement of SR release flux by tracking Ca ²⁺ spikes in rat cardiac myocytes. <i>Journal of Physiology</i> , 1998 , 512 (Pt 3), 677-91	3.9	140
81	Dysfunction in ankyrin-B-dependent ion channel and transporter targeting causes human sinus node disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15617-22	11.5	136
80	The ryanodine receptor store-sensing gate controls Ca ²⁺ waves and Ca ²⁺ -triggered arrhythmias. <i>Nature Medicine</i> , 2014 , 20, 184-92	50.5	135
79	beta-Adrenergic stimulation synchronizes intracellular Ca(2+) release during excitation-contraction coupling in cardiac myocytes. <i>Circulation Research</i> , 2001 , 88, 794-801	15.7	129

78	Calmodulin kinase II is required for fight or flight sinoatrial node physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5972-7	11.5	112
77	Emerging mechanisms of T-tubule remodelling in heart failure. <i>Cardiovascular Research</i> , 2013 , 98, 204-15,9		111
76	The mitochondrial uniporter controls fight or flight heart rate increases. <i>Nature Communications</i> , 2015 , 6, 6081	17.4	106
75	Inhibition of MCU forces extramitochondrial adaptations governing physiological and pathological stress responses in heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9129-34	11.5	102
74	CaV1.2 beta-subunit coordinates CaMKII-triggered cardiomyocyte death and afterdepolarizations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4996-5000	11.5	101
73	Microtubule-mediated defects in junctophilin-2 trafficking contribute to myocyte transverse-tubule remodeling and Ca ²⁺ handling dysfunction in heart failure. <i>Circulation</i> , 2014 , 129, 1742-50	16.7	92
72	The Ca ²⁺ leak paradox and rogue ryanodine receptors: SR Ca ²⁺ efflux theory and practice. <i>Progress in Biophysics and Molecular Biology</i> , 2006 , 90, 172-85	4.7	92
71	Sparks and puffs in oligodendrocyte progenitors: cross talk between ryanodine receptors and inositol trisphosphate receptors. <i>Journal of Neuroscience</i> , 2001 , 21, 3860-70	6.6	79
70	Analysis of Cardiac Myocyte Maturation Using CASA AV, a Platform for Rapid Dissection of Cardiac Myocyte Gene Function In Vivo. <i>Circulation Research</i> , 2017 , 120, 1874-1888	15.7	76
69	Junctophilin-2 is necessary for T-tubule maturation during mouse heart development. <i>Cardiovascular Research</i> , 2013 , 100, 44-53	9.9	73
68	Sildenafil prevents and reverses transverse-tubule remodeling and Ca(2+) handling dysfunction in right ventricle failure induced by pulmonary artery hypertension. <i>Hypertension</i> , 2012 , 59, 355-62	8.5	73
67	Local recovery of Ca ²⁺ release in rat ventricular myocytes. <i>Journal of Physiology</i> , 2005 , 565, 441-7	3.9	71
66	Proarrhythmic defects in Timothy syndrome require calmodulin kinase II. <i>Circulation</i> , 2008 , 118, 2225-34	16.7	69
65	A comparison of murine smooth muscle cells generated from embryonic versus induced pluripotent stem cells. <i>Stem Cells and Development</i> , 2009 , 18, 741-8	4.4	68
64	Critical roles of junctophilin-2 in T-tubule and excitation-contraction coupling maturation during postnatal development. <i>Cardiovascular Research</i> , 2013 , 100, 54-62	9.9	67
63	Imaging microdomain Ca ²⁺ in muscle cells. <i>Circulation Research</i> , 2004 , 94, 1011-22	15.7	66
62	Overexpression of junctophilin-2 does not enhance baseline function but attenuates heart failure development after cardiac stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12240-5	11.5	62
61	Ca(2+) signaling in cardiac myocytes overexpressing the alpha(1) subunit of L-type Ca(2+) channel. <i>Circulation Research</i> , 2002 , 90, 174-81	15.7	59

60	Ca ²⁺ microdomains organized by junctophilins. <i>Cell Calcium</i> , 2015 , 58, 349-56	4	58
59	Paradoxical cellular Ca ²⁺ signaling in severe but compensated canine left ventricular hypertrophy. <i>Circulation Research</i> , 2005 , 97, 457-64	15.7	58
58	Partial depletion of sarcoplasmic reticulum calcium does not prevent calcium sparks in rat ventricular myocytes. <i>Journal of Physiology</i> , 1997 , 505 (Pt 3), 665-75	3.9	56
57	Cardiac-specific overexpression of the alpha(1) subunit of the L-type voltage-dependent Ca(2+) channel in transgenic mice. Loss of isoproterenol-induced contraction. <i>Journal of Biological Chemistry</i> , 1999 , 274, 21503-6	5.4	54
56	Repression of the Central Splicing Regulator RBFox2 Is Functionally Linked to Pressure Overload-Induced Heart Failure. <i>Cell Reports</i> , 2015 , 10, 1521-1533	10.6	53
55	Phospholamban knockout breaks arrhythmogenic Ca ²⁺ waves and suppresses catecholaminergic polymorphic ventricular tachycardia in mice. <i>Circulation Research</i> , 2013 , 113, 517-26	15.7	52
54	β-Adrenergic receptor antagonists ameliorate myocyte T-tubule remodeling following myocardial infarction. <i>FASEB Journal</i> , 2012 , 26, 2531-7	0.9	51
53	Calcium biology of the transverse tubules in heart. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1047, 99-111	6.5	49
52	Constitutive beta2-adrenergic signalling enhances sarcoplasmic reticulum Ca ²⁺ cycling to augment contraction in mouse heart. <i>Journal of Physiology</i> , 1999 , 521 Pt 2, 351-61	3.9	49
51	E-C coupling structural protein junctophilin-2 encodes a stress-adaptive transcription regulator. <i>Science</i> , 2018 , 362,	33.3	49
50	AutoTT: automated detection and analysis of T-tubule architecture in cardiomyocytes. <i>Biophysical Journal</i> , 2014 , 106, 2729-36	2.9	45
49	Propofol and arrhythmias: two sides of the coin. <i>Acta Pharmacologica Sinica</i> , 2011 , 32, 817-23	8	43
48	FKBP12 is a critical regulator of the heart rhythm and the cardiac voltage-gated sodium current in mice. <i>Circulation Research</i> , 2011 , 108, 1042-52	15.7	43
47	PI3Ks maintain the structural integrity of T-tubules in cardiac myocytes. <i>PLoS ONE</i> , 2011 , 6, e24404	3.7	42
46	Calpain-dependent cleavage of junctophilin-2 and T-tubule remodeling in a mouse model of reversible heart failure. <i>Journal of the American Heart Association</i> , 2014 , 3, e000527	6	41
45	Molecular Determinants of Calpain-dependent Cleavage of Junctophilin-2 Protein in Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2015 , 290, 17946-17955	5.4	40
44	Genetic inhibition of Na ⁺ -Ca ²⁺ exchanger current disables fight or flight sinoatrial node activity without affecting resting heart rate. <i>Circulation Research</i> , 2013 , 112, 309-17	15.7	40
43	Thermodynamically irreversible gating of ryanodine receptors in situ revealed by stereotyped duration of release in Ca(2+) sparks. <i>Biophysical Journal</i> , 2002 , 83, 242-51	2.9	40

42	Imaging calcium sparks in cardiac myocytes. <i>Methods in Molecular Biology</i> , 2011 , 689, 205-14	1.4	40
41	I(f) and SR Ca(2+) release both contribute to pacemaker activity in canine sinoatrial node cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 49, 33-40	5.8	39
40	Critical Roles of STAT3 in β -Adrenergic Functions in the Heart. <i>Circulation</i> , 2016 , 133, 48-61	16.7	36
39	Twenty years of calcium imaging: cell physiology to dye for. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2005 , 5, 112-27		36
38	Stress Signaling JNK2 Crosstalk With CaMKII Underlies Enhanced Atrial Arrhythmogenesis. <i>Circulation Research</i> , 2018 , 122, 821-835	15.7	35
37	Role of Stress Kinase JNK in Binge Alcohol-Evoked Atrial Arrhythmia. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 1459-1470	15.1	35
36	Spontaneous beta(2)-adrenergic signaling fails to modulate L-type Ca(2+) current in mouse ventricular myocytes. <i>Molecular Pharmacology</i> , 1999 , 56, 485-93	4.3	35
35	Electrophysiological effects of protopine in cardiac myocytes: inhibition of multiple cation channel currents. <i>British Journal of Pharmacology</i> , 2000 , 129, 893-900	8.6	34
34	Restitution of Ca(2+) release and vulnerability to arrhythmias. <i>Journal of Cardiovascular Electrophysiology</i> , 2006 , 17 Suppl 1, S64-S70	2.7	32
33	Local control of Ca ²⁺ -induced Ca ²⁺ release in mouse sinoatrial node cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 706-15	5.8	30
32	Calmodulin regulation of excitation-contraction coupling in cardiac myocytes. <i>Circulation Research</i> , 2003 , 92, 659-67	15.7	28
31	Polymorphism of Ca ²⁺ sparks evoked from in-focus Ca ²⁺ release units in cardiac myocytes. <i>Biophysical Journal</i> , 2004 , 86, 182-90	2.9	28
30	In situ confocal imaging in intact heart reveals stress-induced Ca(2+) release variability in a murine catecholaminergic polymorphic ventricular tachycardia model of type 2 ryanodine receptor(R4496C+/-) mutation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 841-9	6.4	26
29	Calsequestrin accumulation in rough endoplasmic reticulum promotes perinuclear Ca ²⁺ release. <i>Journal of Biological Chemistry</i> , 2012 , 287, 16670-80	5.4	25
28	Targeting Calpain for Heart Failure Therapy: Implications From Multiple Murine Models. <i>JACC Basic To Translational Science</i> , 2018 , 3, 503-517	8.7	25
27	Regional distribution of T-tubule density in left and right atria in dogs. <i>Heart Rhythm</i> , 2017 , 14, 273-281	6.7	24
26	Non- β -blocking R-carvedilol enantiomer suppresses Ca ²⁺ waves and stress-induced ventricular tachyarrhythmia without lowering heart rate or blood pressure. <i>Biochemical Journal</i> , 2015 , 470, 233-42	3.8	24
25	Catecholamine-independent heart rate increases require Ca ²⁺ /calmodulin-dependent protein kinase II. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2011 , 4, 379-87	6.4	24

24	Suppression of ryanodine receptor function prolongs Ca ²⁺ release refractoriness and promotes cardiac alternans in intact hearts. <i>Biochemical Journal</i> , 2016 , 473, 3951-3964	3.8	20
23	Sarcolemmal ATP-sensitive potassium channels modulate skeletal muscle function under low-intensity workloads. <i>Journal of General Physiology</i> , 2014 , 143, 119-34	3.4	19
22	In situ single photon confocal imaging of cardiomyocyte T-tubule system from Langendorff-perfused hearts. <i>Frontiers in Physiology</i> , 2015 , 6, 134	4.6	17
21	Ectopic expression of Cdk8 induces eccentric hypertrophy and heart failure. <i>JCI Insight</i> , 2017 , 2,	9.9	15
20	MG53 is dispensable for T-tubule maturation but critical for maintaining T-tubule integrity following cardiac stress. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 112, 123-130	5.8	15
19	Integrin α 1D Deficiency-Mediated RyR2 Dysfunction Contributes to Catecholamine-Sensitive Ventricular Tachycardia in Arrhythmogenic Right Ventricular Cardiomyopathy. <i>Circulation</i> , 2020 , 141, 1477-1493	16.7	14
18	Sildenafil ameliorates left ventricular T-tubule remodeling in a pressure overload-induced murine heart failure model. <i>Acta Pharmacologica Sinica</i> , 2016 , 37, 473-82	8	14
17	The cardiac ryanodine receptor luminal Ca ²⁺ sensor governs Ca ²⁺ waves, ventricular tachyarrhythmias and cardiac hypertrophy in calsequestrin-null mice. <i>Biochemical Journal</i> , 2014 , 461, 99-106	3.8	14
16	Oxidized CaMKII and O-GlcNAcylation cause increased atrial fibrillation in diabetic mice by distinct mechanisms. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	14
15	Ablation of the GNB3 gene in mice does not affect body weight, metabolism or blood pressure, but causes bradycardia. <i>Cellular Signalling</i> , 2014 , 26, 2514-20	4.9	13
14	Effects of propofol on ischemia-induced ventricular arrhythmias and mitochondrial ATP-sensitive potassium channels. <i>Acta Pharmacologica Sinica</i> , 2012 , 33, 1495-501	8	12
13	Effects of ginkgo biloba extract on cation currents in rat ventricular myocytes. <i>Life Sciences</i> , 2005 , 76, 1111-21	6.8	12
12	Cholesterol is required for maintaining T-tubule integrity and intercellular connections at intercalated discs in cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 97, 204-12	5.8	10
11	Nebivolol suppresses cardiac ryanodine receptor-mediated spontaneous Ca ²⁺ release and catecholaminergic polymorphic ventricular tachycardia. <i>Biochemical Journal</i> , 2016 , 473, 4159-4172	3.8	9
10	Spontaneous Aortic Regurgitation and Valvular Cardiomyopathy in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 1653-62	9.4	7
9	Joiner et al. reply. <i>Nature</i> , 2014 , 513, E3	50.4	7
8	The challenge of molecular medicine: complexity versus Occam's razor. <i>Journal of Clinical Investigation</i> , 2003 , 111, 801-3	15.9	6
7	Decreased KCNE2 Expression Participates in the Development of Cardiac Hypertrophy by Regulation of Calcineurin-NFAT (Nuclear Factor of Activated T Cells) and Mitogen-Activated Protein Kinase Pathways. <i>Circulation: Heart Failure</i> , 2017 , 10,	7.6	5

6	Transient activation of PKC results in long-lasting detrimental effects on systolic [Ca] in cardiomyocytes by altering actin cytoskeletal dynamics and T-tubule integrity. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 115, 104-114	5.8	4
5	Cephalosporin antibiotics specifically and selectively target nasopharyngeal carcinoma through HMOX1-induced ferroptosis. <i>Life Sciences</i> , 2021 , 277, 119457	6.8	3
4	A mouse model of Huntington's disease shows altered ultrastructure of transverse tubules in skeletal muscle fibers. <i>Journal of General Physiology</i> , 2021 , 153,	3.4	2
3	Gene Therapy With the N-Terminus of Junctophilin-2 Improves Heart Failure in Mice.. <i>Circulation Research</i> , 2022 , CIRCRESAHA121320680	15.7	2
2	O-GlcNAcylation, oxidation and CaMKII contribute to atrial fibrillation in type 1 and type 2 diabetes by distinct mechanisms		1
1	Calpain-2 specifically cleaves Junctophilin-2 at the same site as Calpain-1 but with less efficacy. <i>Biochemical Journal</i> , 2021 , 478, 3539-3553	3.8	1