

Heping Cheng

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6991132/heping-cheng-publications-by-year.pdf>
Version: 2024-04-09

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.

160 papers	12,893 citations	63 h-index	111 g-index
164 ext. papers	14,468 ext. citations	11.2 avg, IF	5.9 L-index

#	Paper	IF	Citations
160	Arterial Labeling Ultrasound Subtraction Angiography (ALUSA) Based on Acoustic Phase-Change Nanodroplets.. <i>Small</i> , 2022 , e2105989	11	0
159	Functional network topography of the medial entorhinal cortex.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	2
158	CMYA5 establishes cardiac dyad architecture and positioning.. <i>Nature Communications</i> , 2022 , 13, 2185	17.4	0
157	Dynamics of a disinhibitory prefrontal microcircuit in controlling social competition. <i>Neuron</i> , 2021 ,	13.9	3
156	Spatiotemporal regulation of store-operated calcium entry in cancer metastasis. <i>Biochemical Society Transactions</i> , 2021 ,	5.1	1
155	Blinking Acoustic Nanodroplets Enable Fast Super-resolution Ultrasound Imaging. <i>ACS Nano</i> , 2021 , 15, 16913-16923	16.7	1
154	BacFlash signals acid-resistance gene expression in bacteria. <i>Cell Research</i> , 2021 , 31, 703-712	24.7	1
153	Miniature two-photon microscopy for enlarged field-of-view, multi-plane and long-term brain imaging. <i>Nature Methods</i> , 2021 , 18, 46-49	21.6	35
152	The mechanosensitive Piezo1 channel mediates heart mechano-chemo transduction. <i>Nature Communications</i> , 2021 , 12, 869	17.4	27
151	Prohibitin 2 deficiency impairs cardiac fatty acid oxidation and causes heart failure. <i>Cell Death and Disease</i> , 2020 , 11, 181	9.8	14
150	Long-term, in toto live imaging of cardiomyocyte behaviour during mouse ventricle chamber formation at single-cell resolution. <i>Nature Cell Biology</i> , 2020 , 22, 332-340	23.4	17
149	An optimized acetylcholine sensor for monitoring in vivo cholinergic activity. <i>Nature Methods</i> , 2020 , 17, 1139-1146	21.6	64
148	Imaging Sarcoplasmic Reticulum Ca Signaling in Intact Cardiac Myocytes. <i>Circulation</i> , 2020 , 142, 1503-1506	15.7	2
147	Light-sheet fluorescence imaging charts the gastrula origin of vascular endothelial cells in early zebrafish embryos. <i>Cell Discovery</i> , 2020 , 6, 74	22.3	3
146	Miniature Fluorescence Microscopy for Imaging Brain Activity in Freely-Behaving Animals. <i>Neuroscience Bulletin</i> , 2020 , 36, 1182-1190	4.3	9
145	NDUFAB1 protects against obesity and insulin resistance by enhancing mitochondrial metabolism. <i>FASEB Journal</i> , 2019 , 33, 13310-13322	0.9	9
144	Central role of IPR2-mediated Ca oscillation in self-renewal of liver cancer stem cells elucidated by high-signal ER sensor. <i>Cell Death and Disease</i> , 2019 , 10, 396	9.8	15

143	Structural and Mechanistic Bases of Nuclear Calcium Signaling in Human Pluripotent Stem Cell-Derived Ventricular Cardiomyocytes. <i>Stem Cells International</i> , 2019 , 2019, 8765752	5	3
142	Mitoflash biogenesis and its role in the autoregulation of mitochondrial proton electrochemical potential. <i>Journal of General Physiology</i> , 2019 , 151, 727-737	3.4	7
141	Imaging elemental events of store-operated Ca entry in invading cancer cells with plasmalemmal targeted sensors. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	11
140	Temperature dependence of mitoflash biogenesis in cardiac mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 666, 8-15	4.1	
139	Mitochondrial PIP3-binding protein FUNDC2 supports platelet survival via AKT signaling pathway. <i>Cell Death and Differentiation</i> , 2019 , 26, 321-331	12.7	16
138	NDUFAB1 confers cardio-protection by enhancing mitochondrial bioenergetics through coordination of respiratory complex and supercomplex assembly. <i>Cell Research</i> , 2019 , 29, 754-766	24.7	33
137	Brain activity regulates loose coupling between mitochondrial and cytosolic Ca transients. <i>Nature Communications</i> , 2019 , 10, 5277	17.4	13
136	Calcium dysregulation mediates mitochondrial and neurite outgrowth abnormalities in SOD2 deficient embryonic cerebral cortical neurons. <i>Cell Death and Differentiation</i> , 2019 , 26, 1600-1614	12.7	10
135	Rapid volumetric imaging with Bessel-Beam three-photon microscopy. <i>Biomedical Optics Express</i> , 2018 , 9, 1992-2000	3.5	31
134	Influences: Experimenting with multidisciplinary training. <i>Journal of General Physiology</i> , 2018 , 150, 1350-1351	3.4	11
133	Programmed Cell Death 5 Provides Negative Feedback on Cardiac Hypertrophy Through the Stabilization of Sarco/Endoplasmic Reticulum Ca-ATPase 2a Protein. <i>Hypertension</i> , 2018 , 72, 889-901	8.5	7
132	Fluorescence-Based Measurements of Store-Operated Ca Entry in Cancer Cells Using Fluo-4 and Confocal Live-Cell Imaging. <i>Methods in Molecular Biology</i> , 2018 , 1843, 63-68	1.4	3
131	A novel stochastic reaction-diffusion model of Ca ²⁺ blink in cardiac myocytes. <i>Science Bulletin</i> , 2017 , 62, 5-8	10.6	6
130	Absence of physiological Ca transients is an initial trigger for mitochondrial dysfunction in skeletal muscle following denervation. <i>Skeletal Muscle</i> , 2017 , 7, 6	5.1	25
129	Deficiency of PHB complex impairs respiratory supercomplex formation and activates mitochondrial flashes. <i>Journal of Cell Science</i> , 2017 , 130, 2620-2630	5.3	26
128	Fast high-resolution miniature two-photon microscopy for brain imaging in freely behaving mice. <i>Nature Methods</i> , 2017 , 14, 713-719	21.6	229
127	Dendritic mitoflash as a putative signal for stabilizing long-term synaptic plasticity. <i>Nature Communications</i> , 2017 , 8, 31	17.4	36
126	Mitochondrial flashes regulate ATP homeostasis in the heart. <i>ELife</i> , 2017 , 6,	8.9	40

125	Mitochondrial Flashes: Elemental Signaling Events in Eukaryotic Cells. <i>Handbook of Experimental Pharmacology</i> , 2017 , 240, 403-422	3.2	6
124	Regulation of Mitoflash Biogenesis and Signaling by Mitochondrial Dynamics. <i>Scientific Reports</i> , 2016 , 6, 32933	4.9	10
123	Mitochondrial Flash: Integrative Reactive Oxygen Species and pH Signals in Cell and Organelle Biology. <i>Antioxidants and Redox Signaling</i> , 2016 , 25, 534-49	8.4	43
122	Mitochondrial flashes: From indicator characterization to in vivo imaging. <i>Methods</i> , 2016 , 109, 12-20	4.6	8
121	Identification of EFHD1 as a novel Ca(2+) sensor for mitoflash activation. <i>Cell Calcium</i> , 2016 , 59, 262-70	4	19
120	Cyclophilin D regulates mitochondrial flashes and metabolism in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 91, 63-71	5.8	24
119	Protons Trigger Mitochondrial Flashes. <i>Biophysical Journal</i> , 2016 , 111, 386-394	2.9	26
118	Large-field high-resolution two-photon digital scanned light-sheet microscopy. <i>Cell Research</i> , 2015 , 25, 254-7	24.7	52
117	Remodeling of Mitochondrial Flashes in Muscular Development and Dystrophy in Zebrafish. <i>PLoS ONE</i> , 2015 , 10, e0132567	3.7	19
116	Mitoflash altered by metabolic stress in insulin-resistant skeletal muscle. <i>Journal of Molecular Medicine</i> , 2015 , 93, 1119-30	5.5	22
115	Mitoflash frequency in early adulthood predicts lifespan in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2014 , 508, 128-32	50.4	105
114	Imaging Ca2+ nanosparks in heart with a new targeted biosensor. <i>Circulation Research</i> , 2014 , 114, 412-20	5.7	59
113	Cheng et al. reply. <i>Nature</i> , 2014 , 514, E14-5	50.4	18
112	STIM1- and Orai1-mediated Ca(2+) oscillation orchestrates invadopodium formation and melanoma invasion. <i>Journal of Cell Biology</i> , 2014 , 207, 535-48	7.3	110
111	Hydrogen peroxide primes heart regeneration with a derepression mechanism. <i>Cell Research</i> , 2014 , 24, 1091-107	24.7	83
110	Mitochondrial flashes: new insights into mitochondrial ROS signalling and beyond. <i>Journal of Physiology</i> , 2014 , 592, 3703-13	3.9	49
109	Regulation of superoxide flashes by transient and steady mitochondrial calcium elevations. <i>Science China Life Sciences</i> , 2014 , 57, 495-501	8.5	16
108	Mechanistic basis of excitation-contraction coupling in human pluripotent stem cell-derived ventricular cardiomyocytes revealed by Ca2+ spark characteristics: direct evidence of functional Ca2+-induced Ca2+ release. <i>Heart Rhythm</i> , 2014 , 11, 133-40	6.7	20

107	Adiponectin regulates SR Ca(2+) cycling following ischemia/reperfusion via sphingosine 1-phosphate-CaMKII signaling in mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 74, 183-92	5.8	23
106	Permeability transition pore-mediated mitochondrial superoxide flashes mediate an early inhibitory effect of amyloid beta1-42 on neural progenitor cell proliferation. <i>Neurobiology of Aging</i> , 2014 , 35, 975-89	5.6	49
105	Imaging ROS signaling in cells and animals. <i>Journal of Molecular Medicine</i> , 2013 , 91, 917-27	5.5	114
104	Overnutrition stimulates intestinal epithelium proliferation through β -catenin signaling in obese mice. <i>Diabetes</i> , 2013 , 62, 3736-46	0.9	63
103	Adrenergic-stimulated L-type channel Ca^{2+} entry mediates hypoxic Ca^{2+} overload in intact heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 65, 51-8	5.8	14
102	Kissing and nanotunneling mediate intermitochondrial communication in the heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2846-51	11.5	113
101	Synergistic triggering of superoxide flashes by mitochondrial Ca^{2+} uniport and basal reactive oxygen species elevation. <i>Journal of Biological Chemistry</i> , 2013 , 288, 4602-12	5.4	67
100	1B50-1, a mAb raised against recurrent tumor cells, targets liver tumor-initiating cells by binding to the calcium channel α_1 subunit. <i>Cancer Cell</i> , 2013 , 23, 541-56	24.3	122
99	Superoxide constitutes a major signal of mitochondrial superoxide flash. <i>Life Sciences</i> , 2013 , 93, 178-86	6.8	33
98	ROS regulation of microdomain Ca^{2+} signalling at the dyads. <i>Cardiovascular Research</i> , 2013 , 98, 248-58	9.9	48
97	Respective contribution of mitochondrial superoxide and pH to mitochondria-targeted circularly permuted yellow fluorescent protein (mt-cpYFP) flash activity. <i>Journal of Biological Chemistry</i> , 2013 , 288, 10567-77	5.4	62
96	Proinflammatory Cytokines Stimulate Mitochondrial Superoxide Flashes in Articular Chondrocytes In Vitro and In Situ. <i>PLoS ONE</i> , 2013 , 8, e66444	3.7	24
95	Superoxide flashes: elemental events of mitochondrial ROS signaling in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 940-8	5.8	46
94	Mitochondrial superoxide production negatively regulates neural progenitor proliferation and cerebral cortical development. <i>Stem Cells</i> , 2012 , 30, 2535-47	5.8	68
93	Superoxide flashes reveal novel properties of mitochondrial reactive oxygen species excitability in cardiomyocytes. <i>Biophysical Journal</i> , 2012 , 102, 1011-21	2.9	52
92	Calcium gradients underlying cell migration. <i>Current Opinion in Cell Biology</i> , 2012 , 24, 254-61	9	114
91	Recombinant MG53 protein modulates therapeutic cell membrane repair in treatment of muscular dystrophy. <i>Science Translational Medicine</i> , 2012 , 4, 139ra85	17.5	128
90	Central role of mitofusin 2 in autophagosome-lysosome fusion in cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2012 , 287, 23615-25	5.4	140

89	Elementary calcium release events from the sarcoplasmic reticulum in the heart. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 740, 499-509	3.6	11
88	Response to "A critical evaluation of cpYFP as a probe for superoxide". <i>Free Radical Biology and Medicine</i> , 2011 , 51, 1937-40	7.8	32
87	Anomalous Subdiffusion of Calcium Spark in Cardiac Myocytes. <i>Cellular and Molecular Bioengineering</i> , 2011 , 4, 457-465	3.9	4
86	Superoxide flashes: early mitochondrial signals for oxidative stress-induced apoptosis. <i>Journal of Biological Chemistry</i> , 2011 , 286, 27573-81	5.4	98
85	Imaging superoxide flash and metabolism-coupled mitochondrial permeability transition in living animals. <i>Cell Research</i> , 2011 , 21, 1295-304	24.7	99
84	Rhesus macaques develop metabolic syndrome with reversible vascular dysfunction responsive to pioglitazone. <i>Circulation</i> , 2011 , 124, 77-86	16.7	37
83	Quarky calcium release in the heart. <i>Circulation Research</i> , 2011 , 108, 210-8	15.7	56
82	A method to measure myocardial calcium handling in adult Drosophila. <i>Circulation Research</i> , 2011 , 108, 1306-15	15.7	25
81	Carvedilol and its new analogs suppress arrhythmogenic store overload-induced Ca ²⁺ release. <i>Nature Medicine</i> , 2011 , 17, 1003-9	50.5	157
80	Catecholaminergic-induced arrhythmias in failing cardiomyocytes associated with human HRCS96A variant overexpression. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H1588-95	5.2	16
79	Cardioprotection by CaMKII-deltaB is mediated by phosphorylation of heat shock factor 1 and subsequent expression of inducible heat shock protein 70. <i>Circulation Research</i> , 2010 , 106, 102-10	15.7	98
78	Rad as a novel regulator of excitation-contraction coupling and beta-adrenergic signaling in heart. <i>Circulation Research</i> , 2010 , 106, 317-27	15.7	56
77	Cardioprotection of ischemia/reperfusion injury by cholesterol-dependent MG53-mediated membrane repair. <i>Circulation Research</i> , 2010 , 107, 76-83	15.7	111
76	T-tubule remodeling during transition from hypertrophy to heart failure. <i>Circulation Research</i> , 2010 , 107, 520-31	15.7	290
75	Simulation of the effect of rogue ryanodine receptors on a calcium wave in ventricular myocytes with heart failure. <i>Physical Biology</i> , 2010 , 7, 026005	3	13
74	Deciphering ryanodine receptor array operation in cardiac myocytes. <i>Journal of General Physiology</i> , 2010 , 136, 129-33	3.4	16
73	Flickering calcium microdomains signal turning of migrating cells. <i>Canadian Journal of Physiology and Pharmacology</i> , 2010 , 88, 105-10	2.4	22
72	Exogenous nucleic acids aggregate in non-P-body cytoplasmic granules when transfected into cultured cells. <i>Frontiers in Biology</i> , 2010 , 5, 272-281		

71	Beta-adrenergic signaling accelerates and synchronizes cardiac ryanodine receptor response to a single L-type Ca ²⁺ channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18028-33	11.5	49
70	Calcium flickers steer cell migration. <i>Nature</i> , 2009 , 457, 901-5	50.4	452
69	Nuclear Ca ²⁺ sparks and waves mediated by inositol 1,4,5-trisphosphate receptors in neonatal rat cardiomyocytes. <i>Cell Calcium</i> , 2008 , 43, 165-74	4	83
68	Superoxide flashes in single mitochondria. <i>Cell</i> , 2008 , 134, 279-90	56.2	584
67	Calcium sparks. <i>Physiological Reviews</i> , 2008 , 88, 1491-545	47.9	447
66	Bidirectional regulation of Ca ²⁺ sparks by mitochondria-derived reactive oxygen species in cardiac myocytes. <i>Cardiovascular Research</i> , 2008 , 77, 432-41	9.9	112
65	Superoxide flashes: illuminating new insights into cardiac ischemia/reperfusion injury. <i>Future Cardiology</i> , 2008 , 4, 551-554	1.3	20
64	Systemic ablation of RyR3 alters Ca ²⁺ spark signaling in adult skeletal muscle. <i>Cell Calcium</i> , 2007 , 42, 548-55	4	21
63	Functional consequence of protein kinase A-dependent phosphorylation of the cardiac ryanodine receptor: sensitization of store overload-induced Ca ²⁺ release. <i>Journal of Biological Chemistry</i> , 2007 , 282, 30256-64	5.4	61
62	Mitofusin-2 is a major determinant of oxidative stress-mediated heart muscle cell apoptosis. <i>Journal of Biological Chemistry</i> , 2007 , 282, 23354-61	5.4	143
61	Nitroxyl improves cellular heart function by directly enhancing cardiac sarcoplasmic reticulum Ca ²⁺ cycling. <i>Circulation Research</i> , 2007 , 100, 96-104	15.7	188
60	Hypersensitivity of BKCa to Ca ²⁺ sparks underlies hyporeactivity of arterial smooth muscle in shock. <i>Circulation Research</i> , 2007 , 101, 493-502	15.7	46
59	Activation of CaMKII δ is a common intermediate of diverse death stimuli-induced heart muscle cell apoptosis. <i>Journal of Biological Chemistry</i> , 2007 , 282, 10833-9	5.4	105
58	Ca ²⁺ /calmodulin kinase II-dependent phosphorylation of ryanodine receptors suppresses Ca ²⁺ sparks and Ca ²⁺ waves in cardiac myocytes. <i>Circulation Research</i> , 2007 , 100, 399-407	15.7	77
57	An anomalous subdiffusion model for calcium spark in cardiac myocytes. <i>Applied Physics Letters</i> , 2007 , 91, 183901	3.4	61
56	High basal protein kinase A-dependent phosphorylation drives rhythmic internal Ca ²⁺ store oscillations and spontaneous beating of cardiac pacemaker cells. <i>Circulation Research</i> , 2006 , 98, 505-14	15.7	224
55	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
54	Ser-2030, but not Ser-2808, is the major phosphorylation site in cardiac ryanodine receptors responding to protein kinase A activation upon beta-adrenergic stimulation in normal and failing hearts. <i>Biochemical Journal</i> , 2006 , 396, 7-16	3.8	136

53	ASF/SF2-regulated CaMKII δ alternative splicing temporally reprograms excitation-contraction coupling in cardiac muscle. <i>Cell</i> , 2005 , 120, 59-72	56.2	261
52	Uncontrolled calcium sparks act as a dystrophic signal for mammalian skeletal muscle. <i>Nature Cell Biology</i> , 2005 , 7, 525-30	23.4	138
51	Heterodimerization of β 1- and β 2-adrenergic receptor subtypes optimizes β -adrenergic modulation of cardiac contractility. <i>Circulation Research</i> , 2005 , 97, 244-51	15.7	92
50	Ca ²⁺ blinks: rapid nanoscopic store calcium signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3099-104	11.5	170
49	Ca ²⁺ sparks and secretion in dorsal root ganglion neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12259-64	11.5	50
48	Paradoxical cellular Ca ²⁺ signaling in severe but compensated canine left ventricular hypertrophy. <i>Circulation Research</i> , 2005 , 97, 457-64	15.7	58
47	Ca(2+)-induced Ca(2+) release in sensory neurons: low gain amplification confers intrinsic stability. <i>Journal of Biological Chemistry</i> , 2005 , 280, 15898-902	5.4	21
46	Characterization of a novel PKA phosphorylation site, serine-2030, reveals no PKA hyperphosphorylation of the cardiac ryanodine receptor in canine heart failure. <i>Circulation Research</i> , 2005 , 96, 847-55	15.7	158
45	The quantal nature of Ca ²⁺ sparks and in situ operation of the ryanodine receptor array in cardiac cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3979-84	11.5	110
44	Imaging microdomain Ca ²⁺ in muscle cells. <i>Circulation Research</i> , 2004 , 94, 1011-22	15.7	66
43	Sustained β 1-adrenergic stimulation modulates cardiac contractility by Ca ²⁺ /calmodulin kinase signaling pathway. <i>Circulation Research</i> , 2004 , 95, 798-806	15.7	160
42	Prostaglandin A ₂ -mediated stabilization of p21 mRNA through an ERK-dependent pathway requiring the RNA-binding protein HuR. <i>Journal of Biological Chemistry</i> , 2004 , 279, 49298-306	5.4	64
41	Dilated cardiomyopathy caused by tissue-specific ablation of SC35 in the heart. <i>EMBO Journal</i> , 2004 , 23, 885-96	13	113
40	Putting out the fire: what terminates calcium-induced calcium release in cardiac muscle?. <i>Cell Calcium</i> , 2004 , 35, 591-601	4	127
39	Contribution of spontaneous L-type Ca ²⁺ channel activation to the genesis of Ca ²⁺ sparks in resting cardiac myocytes. <i>Science in China Series C: Life Sciences</i> , 2004 , 47, 31-7		4
38	Subtype-specific β -adrenoceptor signaling pathways in the heart and their potential clinical implications. <i>Trends in Pharmacological Sciences</i> , 2004 , 25, 358-65	13.2	119
37	RyR2 mutations linked to ventricular tachycardia and sudden death reduce the threshold for store-overload-induced Ca ²⁺ release (SOICR). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13062-7	11.5	356
36	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

35	Enhanced G(i) signaling selectively negates beta2-adrenergic receptor (AR)--but not beta1-AR-mediated positive inotropic effect in myocytes from failing rat hearts. <i>Circulation</i> , 2003 , 108, 1633-9	16.7	105
34	Calmodulin regulation of excitation-contraction coupling in cardiac myocytes. <i>Circulation Research</i> , 2003 , 92, 659-67	15.7	28
33	The third intracellular loop and the carboxyl terminus of beta2-adrenergic receptor confer spontaneous activity of the receptor. <i>Molecular Pharmacology</i> , 2003 , 64, 1048-58	4.3	28
32	Linkage of β_1 -adrenergic stimulation to apoptotic heart cell death through protein kinase A-independent activation of Ca ²⁺ /calmodulin kinase II. <i>Journal of Clinical Investigation</i> , 2003 , 111, 617-625	15.9	310
31	Calcium signaling between sarcolemmal calcium channels and ryanodine receptors in heart cells. <i>Frontiers in Bioscience - Landmark</i> , 2002 , 7, d1867	2.8	14
30	Dysfunction of store-operated calcium channel in muscle cells lacking mg29. <i>Nature Cell Biology</i> , 2002 , 4, 379-83	23.4	143
29	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
28	p38 Mitogen-activated protein kinase mediates a negative inotropic effect in cardiac myocytes. <i>Circulation Research</i> , 2002 , 90, 190-6	15.7	153
27	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
26	Intracellular Ca(2+) release as irreversible Markov process. <i>Biophysical Journal</i> , 2002 , 83, 2511-21	2.9	26
25	Adaptive mechanisms of intracellular calcium homeostasis in mammalian hibernators. <i>Journal of Experimental Biology</i> , 2002 , 205, 2957-62	3	74
24	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
23	RyR3 amplifies RyR1-mediated Ca(2+)-induced Ca(2+) release in neonatal mammalian skeletal muscle. <i>Journal of Biological Chemistry</i> , 2001 , 276, 40210-4	5.4	37
22	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
21	Site-specific antibody of (Na(+)+K(+))-ATPase augments cardiac myocyte contraction without inactivating enzyme activity. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 289, 167-72	3.4	5
20	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
19	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
18	Culture and adenoviral infection of adult mouse cardiac myocytes: methods for cellular genetic physiology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H429-36	5.2	221

17	Frequency-encoding Thr17 phospholamban phosphorylation is independent of Ser16 phosphorylation in cardiac myocytes. <i>Journal of Biological Chemistry</i> , 2000 , 275, 22532-6	5.4	104
16	Sinoatrial node pacemaker activity requires Ca(2+)/calmodulin-dependent protein kinase II activation. <i>Circulation Research</i> , 2000 , 87, 760-7	15.7	149
15	Inhibition of spontaneous beta 2-adrenergic activation rescues beta 1-adrenergic contractile response in cardiomyocytes overexpressing beta 2-adrenoceptor. <i>Journal of Biological Chemistry</i> , 2000 , 275, 21773-9	5.4	20
14	G(i)-dependent localization of beta(2)-adrenergic receptor signaling to L-type Ca(2+) channels. <i>Biophysical Journal</i> , 2000 , 79, 2547-56	2.9	129
13	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
12	G(i) protein-mediated functional compartmentalization of cardiac beta(2)-adrenergic signaling. <i>Journal of Biological Chemistry</i> , 1999 , 274, 22048-52	5.4	131
11	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
10	Calcium sparks: release packets of uncertain origin and fundamental role. <i>Journal of General Physiology</i> , 1999 , 113, 377-84	3.4	43
9	Constitutive beta2-adrenergic signalling enhances sarcoplasmic reticulum Ca2+ cycling to augment contraction in mouse heart. <i>Journal of Physiology</i> , 1999 , 521 Pt 2, 351-61	3.9	49
8	Coupling of beta2-adrenoceptor to Gi proteins and its physiological relevance in murine cardiac myocytes. <i>Circulation Research</i> , 1999 , 84, 43-52	15.7	332
7	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
6	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
5	A simple numerical model of calcium spark formation and detection in cardiac myocytes. <i>Biophysical Journal</i> , 1998 , 75, 15-32	2.9	182
4	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
3	Enhanced proliferation and migration and altered cytoskeletal proteins in early passage smooth muscle cells from young and old rat aortic explants. <i>Experimental and Molecular Pathology</i> , 1997 , 64, 1-11	4.4	61
2	Two-photon-excitation fluorescence imaging of three-dimensional calcium-ion activity. <i>Applied Optics</i> , 1994 , 33, 662-9	1.7	73
1	Functional network topography of the medial entorhinal cortex		1