

Heping Cheng

List of Publications by Citations

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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	Superoxide flashes in single mitochondria. <i>Cell</i> , 2008 , 134, 279-90	56.2	584
159	Calcium flickers steer cell migration. <i>Nature</i> , 2009 , 457, 901-5	50.4	452
158	Calcium sparks. <i>Physiological Reviews</i> , 2008 , 88, 1491-545	47.9	447
157	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
156	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
155	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
154	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
153	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
152	T-tubule remodeling during transition from hypertrophy to heart failure. <i>Circulation Research</i> , 2010 , 107, 520-31	15.7	290
151	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
150	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
149	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
148	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
147	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
146	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
145	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
144	A simple numerical model of calcium spark formation and detection in cardiac myocytes. <i>Biophysical Journal</i> , 1998 , 75, 15-32	2.9	182

143	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
142	Sustained beta1-adrenergic stimulation modulates cardiac contractility by Ca ²⁺ /calmodulin kinase signaling pathway. <i>Circulation Research</i> , 2004 , 95, 798-806	15.7	160
141	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
140	Carvedilol and its new analogs suppress arrhythmogenic store overload-induced Ca ²⁺ release. <i>Nature Medicine</i> , 2011 , 17, 1003-9	50.5	157
139	p38 Mitogen-activated protein kinase mediates a negative inotropic effect in cardiac myocytes. <i>Circulation Research</i> , 2002 , 90, 190-6	15.7	153
138	Sinoatrial node pacemaker activity requires Ca(2+)/calmodulin-dependent protein kinase II activation. <i>Circulation Research</i> , 2000 , 87, 760-7	15.7	149
137	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
136	Dysfunction of store-operated calcium channel in muscle cells lacking mg29. <i>Nature Cell Biology</i> , 2002 , 4, 379-83	23.4	143
135	Central role of mitofusin 2 in autophagosome-lysosome fusion in cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2012 , 287, 23615-25	5.4	140
134	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
133	Uncontrolled calcium sparks act as a dystrophic signal for mammalian skeletal muscle. <i>Nature Cell Biology</i> , 2005 , 7, 525-30	23.4	138
132	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
131	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
130	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
129	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
128	Recombinant MG53 protein modulates therapeutic cell membrane repair in treatment of muscular dystrophy. <i>Science Translational Medicine</i> , 2012 , 4, 139ra85	17.5	128
127	Putting out the fire: what terminates calcium-induced calcium release in cardiac muscle?. <i>Cell Calcium</i> , 2004 , 35, 591-601	4	127
126	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

125	Subtype-specific beta-adrenoceptor signaling pathways in the heart and their potential clinical implications. <i>Trends in Pharmacological Sciences</i> , 2004 , 25, 358-65	13.2	119
124	Imaging ROS signaling in cells and animals. <i>Journal of Molecular Medicine</i> , 2013 , 91, 917-27	5.5	114
123	Calcium gradients underlying cell migration. <i>Current Opinion in Cell Biology</i> , 2012 , 24, 254-61	9	114
122	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
121	Dilated cardiomyopathy caused by tissue-specific ablation of SC35 in the heart. <i>EMBO Journal</i> , 2004 , 23, 885-96	13	113
120	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
119	Cardioprotection of ischemia/reperfusion injury by cholesterol-dependent MG53-mediated membrane repair. <i>Circulation Research</i> , 2010 , 107, 76-83	15.7	111
118	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
117	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
116	Mitoflash frequency in early adulthood predicts lifespan in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2014 , 508, 128-32	50.4	105
115	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
114	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
113	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
112	Imaging superoxide flash and metabolism-coupled mitochondrial permeability transition in living animals. <i>Cell Research</i> , 2011 , 21, 1295-304	24.7	99
111	Cardioprotection by CaMKII- δ B 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
110	Superoxide flashes: early mitochondrial signals for oxidative stress-induced apoptosis. <i>Journal of Biological Chemistry</i> , 2011 , 286, 27573-81	5.4	98
109	Heterodimerization of beta1- and beta2-adrenergic receptor subtypes optimizes beta-adrenergic modulation of cardiac contractility. <i>Circulation Research</i> , 2005 , 97, 244-51	15.7	92
108	Hydrogen peroxide primes heart regeneration with a derepression mechanism. <i>Cell Research</i> , 2014 , 24, 1091-107	24.7	83

107	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
106	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
105	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
104	Adaptive mechanisms of intracellular calcium homeostasis in mammalian hibernators. <i>Journal of Experimental Biology</i> , 2002 , 205, 2957-62	3	74
103	Two-photon-excitation fluorescence imaging of three-dimensional calcium-ion activity. <i>Applied Optics</i> , 1994 , 33, 662-9	1.7	73
102	Mitochondrial superoxide production negatively regulates neural progenitor proliferation and cerebral cortical development. <i>Stem Cells</i> , 2012 , 30, 2535-47	5.8	68
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	Imaging microdomain Ca ²⁺ in muscle cells. <i>Circulation Research</i> , 2004 , 94, 1011-22	15.7	66
99	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
98	An optimized acetylcholine sensor for monitoring in vivo cholinergic activity. <i>Nature Methods</i> , 2020 , 17, 1139-1146	21.6	64
97	Overnutrition stimulates intestinal epithelium proliferation through β -catenin signaling in obese mice. <i>Diabetes</i> , 2013 , 62, 3736-46	0.9	63
96	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
95	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
94	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
93	An anomalous subdiffusion model for calcium spark in cardiac myocytes. <i>Applied Physics Letters</i> , 2007 , 91, 183901	3.4	61
92	Imaging Ca ²⁺ nanosparks in heart with a new targeted biosensor. <i>Circulation Research</i> , 2014 , 114, 412-20	5.7	59
91	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
90	Paradoxical cellular Ca ²⁺ signaling in severe but compensated canine left ventricular hypertrophy. <i>Circulation Research</i> , 2005 , 97, 457-64	15.7	58

89	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
88	Quarky calcium release in the heart. <i>Circulation Research</i> , 2011 , 108, 210-8	15.7	56
87	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
86	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
85	Large-field high-resolution two-photon digital scanned light-sheet microscopy. <i>Cell Research</i> , 2015 , 25, 254-7	24.7	52
84	Superoxide flashes reveal novel properties of mitochondrial reactive oxygen species excitability in cardiomyocytes. <i>Biophysical Journal</i> , 2012 , 102, 1011-21	2.9	52
83	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
82	Mitochondrial flashes: new insights into mitochondrial ROS signalling and beyond. <i>Journal of Physiology</i> , 2014 , 592, 3703-13	3.9	49
81	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
80	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
79	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
78	ROS regulation of microdomain Ca(2+) signalling at the dyads. <i>Cardiovascular Research</i> , 2013 , 98, 248-58	9.9	48
77	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
76	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
75	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
74	Calcium sparks: release packets of uncertain origin and fundamental role. <i>Journal of General Physiology</i> , 1999 , 113, 377-84	3.4	43
73	Mitochondrial flashes regulate ATP homeostasis in the heart. <i>ELife</i> , 2017 , 6,	8.9	40
72	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

71	Rhesus macaques develop metabolic syndrome with reversible vascular dysfunction responsive to pioglitazone. <i>Circulation</i> , 2011 , 124, 77-86	16.7	37
70	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
69	Dendritic mitoflash as a putative signal for stabilizing long-term synaptic plasticity. <i>Nature Communications</i> , 2017 , 8, 31	17.4	36
68	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
67	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
66	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
65	Superoxide constitutes a major signal of mitochondrial superoxide flash. <i>Life Sciences</i> , 2013 , 93, 178-86	6.8	33
64	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
63	Rapid volumetric imaging with Bessel-Beam three-photon microscopy. <i>Biomedical Optics Express</i> , 2018 , 9, 1992-2000	3.5	31
62	Calmodulin regulation of excitation-contraction coupling in cardiac myocytes. <i>Circulation Research</i> , 2003 , 92, 659-67	15.7	28
61	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
60	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
59	The mechanosensitive Piezo1 channel mediates heart mechano-chemo transduction. <i>Nature Communications</i> , 2021 , 12, 869	17.4	27
58	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
57	Intracellular Ca(2+) release as irreversible Markov process. <i>Biophysical Journal</i> , 2002 , 83, 2511-21	2.9	26
56	Protons Trigger Mitochondrial Flashes. <i>Biophysical Journal</i> , 2016 , 111, 386-394	2.9	26
55	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
54	A method to measure myocardial calcium handling in adult Drosophila. <i>Circulation Research</i> , 2011 , 108, 1306-15	15.7	25

53	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
52	Proinflammatory Cytokines Stimulate Mitochondrial Superoxide Flashes in Articular Chondrocytes In Vitro and In Situ. <i>PLoS ONE</i> , 2013 , 8, e66444	3.7	24
51	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
50	Mitoflash altered by metabolic stress in insulin-resistant skeletal muscle. <i>Journal of Molecular Medicine</i> , 2015 , 93, 1119-30	5.5	22
49	Flickering calcium microdomains signal turning of migrating cells. <i>Canadian Journal of Physiology and Pharmacology</i> , 2010 , 88, 105-10	2.4	22
48	Systemic ablation of RyR3 alters Ca2+ spark signaling in adult skeletal muscle. <i>Cell Calcium</i> , 2007 , 42, 548-55	4	21
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	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
45	Superoxide flashes: illuminating new insights into cardiac ischemia/reperfusion injury. <i>Future Cardiology</i> , 2008 , 4, 551-554	1.3	20
44	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
43	Identification of EFHD1 as a novel Ca(2+) sensor for mitoflash activation. <i>Cell Calcium</i> , 2016 , 59, 262-70	4	19
42	Remodeling of Mitochondrial Flashes in Muscular Development and Dystrophy in Zebrafish. <i>PLoS ONE</i> , 2015 , 10, e0132567	3.7	19
41	Cheng et al. reply. <i>Nature</i> , 2014 , 514, E14-5	50.4	18
40	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
39	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
38	Regulation of superoxide flashes by transient and steady mitochondrial calcium elevations. <i>Science China Life Sciences</i> , 2014 , 57, 495-501	8.5	16
37	Deciphering ryanodine receptor array operation in cardiac myocytes. <i>Journal of General Physiology</i> , 2010 , 136, 129-33	3.4	16
36	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

35	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
34	Prohibitin 2 deficiency impairs cardiac fatty acid oxidation and causes heart failure. <i>Cell Death and Disease</i> , 2020 , 11, 181	9.8	14
33	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
32	Calcium signaling between sarcolemmal calcium channels and ryanodine receptors in heart cells. <i>Frontiers in Bioscience - Landmark</i> , 2002 , 7, d1867	2.8	14
31	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
30	Brain activity regulates loose coupling between mitochondrial and cytosolic Ca transients. <i>Nature Communications</i> , 2019 , 10, 5277	17.4	13
29	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
28	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
27	Regulation of Mitoflash Biogenesis and Signaling by Mitochondrial Dynamics. <i>Scientific Reports</i> , 2016 , 6, 32933	4.9	10
26	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
25	NDUFAB1 protects against obesity and insulin resistance by enhancing mitochondrial metabolism. <i>FASEB Journal</i> , 2019 , 33, 13310-13322	0.9	9
24	Miniature Fluorescence Microscopy for Imaging Brain Activity in Freely-Behaving Animals. <i>Neuroscience Bulletin</i> , 2020 , 36, 1182-1190	4.3	9
23	Mitochondrial flashes: From indicator characterization to in vivo imaging. <i>Methods</i> , 2016 , 109, 12-20	4.6	8
22	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
21	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
20	A novel stochastic reaction-diffusion model of Ca^{2+} blink in cardiac myocytes. <i>Science Bulletin</i> , 2017 , 62, 5-8	10.6	6
19	Mitochondrial Flashes: Elemental Signaling Events in Eukaryotic Cells. <i>Handbook of Experimental Pharmacology</i> , 2017 , 240, 403-422	3.2	6
18	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

17	Anomalous Subdiffusion of Calcium Spark in Cardiac Myocytes. <i>Cellular and Molecular Bioengineering</i> , 2011 , 4, 457-465	3.9	4
16	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
15	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
14	Dynamics of a disinhibitory prefrontal microcircuit in controlling social competition. <i>Neuron</i> , 2021 ,	13.9	3
13	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
12	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
11	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
10	Imaging Sarcoplasmic Reticulum Ca Signaling in Intact Cardiac Myocytes. <i>Circulation</i> , 2020 , 142, 1503-1506.	5.7	2
9	Spatiotemporal regulation of store-operated calcium entry in cancer metastasis. <i>Biochemical Society Transactions</i> , 2021 ,	5.1	1
8	Blinking Acoustic Nanodroplets Enable Fast Super-resolution Ultrasound Imaging. <i>ACS Nano</i> , 2021 , 15, 16913-16923	16.7	1
7	BacFlash signals acid-resistance gene expression in bacteria. <i>Cell Research</i> , 2021 , 31, 703-712	24.7	1
6	Functional network topography of the medial entorhinal cortex		1
5	Arterial Labeling Ultrasound Subtraction Angiography (ALUSA) Based on Acoustic Phase-Change Nanodroplets.. <i>Small</i> , 2022 , e2105989	11	0
4	CMYA5 establishes cardiac dyad architecture and positioning.. <i>Nature Communications</i> , 2022 , 13, 2185	17.4	0
3	Temperature dependence of mitoflash biogenesis in cardiac mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 666, 8-15	4.1	
2	Exogenous nucleic acids aggregate in non-P-body cytoplasmic granules when transfected into cultured cells. <i>Frontiers in Biology</i> , 2010 , 5, 272-281		
1	Influences: Experimenting with multidisciplinary training. <i>Journal of General Physiology</i> , 2018 , 150, 1350-1351	3.4	1