

David A Eisner

List of Publications by Year in descending order

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250
papers

13,281
citations

13865

67
h-index

28297

105
g-index

254
all docs

254
docs citations

254
times ranked

6625
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium and Excitation-Contraction Coupling in the Heart. <i>Circulation Research</i> , 2017, 121, 181-195.	4.5	526
2	The steady state TTX-sensitive (?window?) sodium current in cardiac Purkinje fibres. <i>Pflügers Archiv European Journal of Physiology</i> , 1979, 379, 137-142.	2.8	440
3	Integrative Analysis of Calcium Cycling in Cardiac Muscle. <i>Circulation Research</i> , 2000, 87, 1087-1094.	4.5	287
4	Sarcoplasmic Reticulum Calcium Content Fluctuation Is the Key to Cardiac Alternans. <i>Circulation Research</i> , 2004, 94, 650-656.	4.5	279
5	Oscillations of intracellular Ca ²⁺ in mammalian cardiac muscle. <i>Nature</i> , 1983, 304, 735-738.	27.8	270
6	Sarcoplasmic Reticulum Ca ²⁺ and Heart Failure. <i>Circulation Research</i> , 2003, 93, 487-490.	4.5	267
7	Na-Ca exchange: stoichiometry and electrogenicity. <i>American Journal of Physiology - Cell Physiology</i> , 1985, 248, C189-C202.	4.6	241
8	Evolution of calcium homeostasis: From birth of the first cell to an omnipresent signalling system. <i>Cell Calcium</i> , 2007, 42, 345-350.	2.4	239
9	Ca ²⁺ ions can affect intracellular pH in mammalian cardiac muscle. <i>Nature</i> , 1983, 301, 522-524.	27.8	218
10	The sarcoplasmic reticulum and arrhythmogenic calcium release. <i>Cardiovascular Research</i> , 2007, 77, 285-292.	3.8	196
11	An estimate of the calcium content of the sarcoplasmic reticulum in rat ventricular myocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 1993, 423-423, 158-160.	2.8	191
12	The control of Ca release from the cardiac sarcoplasmic reticulum: regulation versus autoregulation. <i>Cardiovascular Research</i> , 1998, 38, 589-604.	3.8	188
13	The effects of metabolic inhibition on intracellular calcium and pH in isolated rat ventricular cells.. <i>Journal of Physiology</i> , 1989, 411, 393-418.	2.9	186
14	Measurement of sarcoplasmic reticulum Ca ²⁺ -content and sarcolemmal Ca ²⁺ -fluxes in isolated rat ventricular myocytes during spontaneous Ca ²⁺ -release. <i>Journal of Physiology</i> , 1997, 501, 3-16.	2.9	182
15	Increasing Ryanodine Receptor Open Probability Alone Does Not Produce Arrhythmogenic Calcium Waves. <i>Circulation Research</i> , 2007, 100, 105-111.	4.5	173
16	Regulation of Intracellular and Mitochondrial Sodium in Health and Disease. <i>Circulation Research</i> , 2009, 104, 292-303.	4.5	165
17	Inotropic and arrhythmogenic effects of potassium-depleted solutions on mammalian cardiac muscle.. <i>Journal of Physiology</i> , 1979, 294, 255-277.	2.9	162
18	The relative contributions of different intracellular and sarcolemmal systems to relaxation in rat ventricular myocytes. <i>Cardiovascular Research</i> , 1993, 27, 1826-1830.	3.8	158

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19	Modulation of CICR has no maintained effect on systolic Ca ²⁺ : simultaneous measurements of sarcoplasmic reticulum and sarcolemmal Ca ²⁺ fluxes in rat ventricular myocytes. <i>Journal of Physiology</i> , 2000, 522, 259-270.	2.9	156
20	Characterization of the electrogenic sodium pump in cardiac Purkinje fibres. <i>Journal of Physiology</i> , 1980, 303, 441-474.	2.9	154
21	The dependence of sodium pumping and tension on intracellular sodium activity in voltage-clamped sheep Purkinje fibres.. <i>Journal of Physiology</i> , 1981, 317, 163-187.	2.9	149
22	The role of [Ca ²⁺] _i and [Ca ²⁺] _o sensitization in the caffeine contracture of rat myocytes: measurement of [Ca ²⁺] _i and [caffeine] _i .. <i>Journal of Physiology</i> , 1990, 425, 55-70.	2.9	148
23	Depressed Ryanodine Receptor Activity Increases Variability and Duration of the Systolic Ca ²⁺ Transient in Rat Ventricular Myocytes. <i>Circulation Research</i> , 2002, 91, 585-593.	4.5	148
24	Characterization of an Extensive Transverse Tubular Network in Sheep Atrial Myocytes and its Depletion in Heart Failure. <i>Circulation: Heart Failure</i> , 2009, 2, 482-489.	3.9	144
25	Transverse tubules are a common feature in large mammalian atrial myocytes including human. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H1996-H2005.	3.2	142
26	The control of tonic tension by membrane potential and intracellular sodium activity in the sheep cardiac Purkinje fibre.. <i>Journal of Physiology</i> , 1983, 335, 723-743.	2.9	127
27	Characterization of oscillations of intracellular calcium concentration in ferret ventricular muscle.. <i>Journal of Physiology</i> , 1984, 352, 113-128.	2.9	124
28	Fluorescence measurements of cytoplasmic and mitochondrial sodium concentration in rat ventricular myocytes.. <i>Journal of Physiology</i> , 1992, 448, 493-509.	2.9	124
29	A novel, rapid and reversible method to measure Ca buffering and time-course of total sarcoplasmic reticulum Ca content in cardiac ventricular myocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 1999, 437, 501.	2.8	123
30	The quantitative relationship between twitch tension and intracellular sodium activity in sheep cardiac Purkinje fibres.. <i>Journal of Physiology</i> , 1984, 355, 251-266.	2.9	120
31	Coordinated Control of Cell Ca ²⁺ Loading and Triggered Release From the Sarcoplasmic Reticulum Underlies the Rapid Inotropic Response to Increased L-Type Ca ²⁺ Current. <i>Circulation Research</i> , 2001, 88, 195-201.	4.5	116
32	Effects of metabolic blockade on the regulation of intracellular calcium in dissociated mouse sensory neurones.. <i>Journal of Physiology</i> , 1990, 424, 411-426.	2.9	112
33	Comparison of subsarcolemmal and bulk calcium concentration during spontaneous calcium release in rat ventricular myocytes.. <i>Journal of Physiology</i> , 1995, 488, 577-586.	2.9	112
34	Calcium in the Pathophysiology of Atrial Fibrillation and Heart Failure. <i>Frontiers in Physiology</i> , 2018, 9, 1380.	2.8	112
35	Dependence of Cardiac Transverse Tubules on the BAR Domain Protein Amphiphysin II (BIN-1). <i>Circulation Research</i> , 2014, 115, 986-996.	4.5	109
36	The relationship between intracellular calcium and contraction in calcium-overloaded ferret papillary muscles.. <i>Journal of Physiology</i> , 1985, 364, 169-182.	2.9	102

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37	The role of the sodium pump in the effects of potassium-depleted solutions on mammalian cardiac muscle. <i>Journal of Physiology</i> , 1979, 294, 279-301.	2.9	100
38	A mechanism for the effects of caffeine on Ca ²⁺ release during diastole and systole in isolated rat ventricular myocytes.. <i>Journal of Physiology</i> , 1990, 430, 519-536.	2.9	99
39	Enhanced Ca ²⁺ Current and Decreased Ca ²⁺ Efflux Restore Sarcoplasmic Reticulum Ca ²⁺ Content After Depletion. <i>Circulation Research</i> , 1997, 81, 477-484.	4.5	99
40	Calcium flux balance in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 58, 110-117.	1.9	97
41	The effects of low sodium solutions on intracellular calcium concentration and tension in ferret ventricular muscle.. <i>Journal of Physiology</i> , 1983, 345, 391-407.	2.9	96
42	The Control of Diastolic Calcium in the Heart. <i>Circulation Research</i> , 2020, 126, 395-412.	4.5	94
43	Estimate of net calcium fluxes and sarcoplasmic reticulum calcium content during systole in rat ventricular myocytes.. <i>Journal of Physiology</i> , 1995, 486, 581-591.	2.9	92
44	Reducing Ryanodine Receptor Open Probability as a Means to Abolish Spontaneous Ca ²⁺ Release and Increase Ca ²⁺ Transient Amplitude in Adult Ventricular Myocytes. <i>Circulation Research</i> , 2006, 98, 1299-1305.	4.5	90
45	In the RyR2 ^{R4496C} Mouse Model of CPVT, β_2 -Adrenergic Stimulation Induces Ca Waves by Increasing SR Ca Content and Not by Decreasing the Threshold for Ca Waves. <i>Circulation Research</i> , 2010, 107, 1483-1489.	4.5	90
46	The effects of low concentrations of caffeine on spontaneous Ca release in isolated rat ventricular myocytes. <i>Cell Calcium</i> , 2000, 28, 269-276.	2.4	89
47	The effects of heart rate on the action potential of guinea-pig and human ventricular muscle.. <i>Journal of Physiology</i> , 1981, 313, 439-461.	2.9	88
48	The effect of tetracaine on spontaneous Ca ²⁺ release and sarcoplasmic reticulum calcium content in rat ventricular myocytes. <i>Journal of Physiology</i> , 1997, 502, 471-479.	2.9	88
49	Simultaneous measurements of changes in sarcoplasmic reticulum and cytosolic [Ca ²⁺] in rat uterine smooth muscle cells. <i>Journal of Physiology</i> , 2001, 531, 707-713.	2.9	88
50	The control of sarcoplasmic reticulum Ca content in cardiac muscle. <i>Cell Calcium</i> , 2005, 38, 391-396.	2.4	86
51	Measurements of intracellular Ca ²⁺ in dissociated type I cells of the rabbit carotid body.. <i>Journal of Physiology</i> , 1989, 416, 421-434.	2.9	83
52	Metabolic changes during ischaemia and their role in contractile failure in isolated ferret hearts.. <i>Journal of Physiology</i> , 1992, 454, 467-490.	2.9	83
53	What role does modulation of the ryanodine receptor play in cardiac inotropy and arrhythmogenesis?. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 474-481.	1.9	83
54	Voltage clamp and tracer flux data: effects of a restricted extra-cellular space. <i>Quarterly Reviews of Biophysics</i> , 1979, 12, 213-261.	5.7	82

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55	Diastolic Spontaneous Calcium Release From the Sarcoplasmic Reticulum Increases Beat-to-Beat Variability of Repolarization in Canine Ventricular Myocytes After β^2 -Adrenergic Stimulation. <i>Circulation Research</i> , 2013, 112, 246-256.	4.5	82
56	The role of sarcolemmal Ca^{2+} -ATPase in the regulation of resting calcium concentration in rat ventricular myocytes. <i>Journal of Physiology</i> , 1999, 515, 109-118.	2.9	81
57	Analysis of cellular calcium fluxes in cardiac muscle to understand calcium homeostasis in the heart. <i>Cell Calcium</i> , 2007, 42, 503-512.	2.4	80
58	Effects of changes of intracellular pH on contraction in sheep cardiac Purkinje fibers.. <i>Journal of General Physiology</i> , 1987, 89, 1015-1032.	1.9	76
59	A novel method for absolute calibration of intracellular pH indicators. <i>Pflugers Archiv European Journal of Physiology</i> , 1989, 413, 553-558.	2.8	76
60	Properties of voltage-activated $[\text{Ca}^{2+}]_i$ transients in single smooth muscle cells isolated from pregnant rat uterus. <i>Journal of Physiology</i> , 1998, 511, 803-811.	2.9	76
61	The effects of rubidium ions and membrane potentials on the intracellular sodium activity of sheep Purkinje fibres.. <i>Journal of Physiology</i> , 1981, 317, 189-205.	2.9	75
62	The effect of tetracaine on stimulated contractions, sarcoplasmic reticulum Ca^{2+} content and membrane current in isolated rat ventricular myocytes. <i>Journal of Physiology</i> , 1998, 507, 759-769.	2.9	74
63	The effect of acidosis on systolic Ca^{2+} and sarcoplasmic reticulum calcium content in isolated rat ventricular myocytes. <i>Journal of Physiology</i> , 2000, 529, 661-668.	2.9	73
64	Thick slurry bevelling. <i>Pflugers Archiv European Journal of Physiology</i> , 1979, 381, 287-288.	2.8	71
65	The dependence on heart rate of the human ventricular action potential duration. <i>Cardiovascular Research</i> , 1982, 16, 547-551.	3.8	71
66	The role of intracellular sodium activity in the antiarrhythmic action of local anaesthetics in sheep Purkinje fibres.. <i>Journal of Physiology</i> , 1983, 340, 239-257.	2.9	70
67	Factors influencing free intracellular calcium concentration in quiescent ferret ventricular muscle.. <i>Journal of Physiology</i> , 1984, 350, 615-630.	2.9	70
68	Calcium-induced calcium release activates contraction in intact cardiac cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1989, 413, 676-678.	2.8	68
69	Regulation of systolic $[\text{Ca}^{2+}]_i$ and cellular Ca^{2+} flux balance in rat ventricular myocytes by SR Ca^{2+} , Ca^{2+} current and diastolic $[\text{Ca}^{2+}]_i$. <i>Journal of Physiology</i> , 2007, 585, 579-592.	2.9	68
70	Calcium Buffering in the Heart in Health and Disease. <i>Circulation</i> , 2019, 139, 2358-2371.	1.6	68
71	Mechanisms underlying enhanced cardiac excitation contraction coupling observed in the senescent sheep myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2004, 37, 1171-81.	1.9	67
72	The role of the sarcoplasmic reticulum as a Ca^{2+} sink in rat uterine smooth muscle cells. <i>Journal of Physiology</i> , 1999, 520, 153-163.	2.9	64

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73	Does nitric oxide modulate cardiac ryanodine receptor function? Implications for excitation-contraction coupling. <i>Cardiovascular Research</i> , 2007, 77, 256-264.	3.8	64
74	Effects of rapid application of caffeine on intracellular calcium concentration in ferret papillary muscles.. <i>Journal of General Physiology</i> , 1988, 92, 351-368.	1.9	59
75	How calcium signals in myocytes and pericytes are integrated across in situ microvascular networks and control microvascular tone. <i>Cell Calcium</i> , 2013, 54, 163-174.	2.4	59
76	The effects of inhibitors of sarcoplasmic reticulum function on the systolic Ca ²⁺ transient in rat ventricular myocytes.. <i>Journal of Physiology</i> , 1993, 468, 35-52.	2.9	58
77	From the Ryanodine Receptor to Cardiac Arrhythmias. <i>Circulation Journal</i> , 2009, 73, 1561-1567.	1.6	57
78	Calcium signalling microdomains and the t-tubular system in atrial myocytes: potential roles in cardiac disease and arrhythmias. <i>Cardiovascular Research</i> , 2013, 98, 192-203.	3.8	56
79	A study of intracellular calcium oscillations in sheep cardiac Purkinje fibres measured at the single cell level.. <i>Journal of Physiology</i> , 1986, 372, 539-556.	2.9	54
80	Propagating calcium waves initiated by local caffeine application in rat ventricular myocytes.. <i>Journal of Physiology</i> , 1995, 489, 319-326.	2.9	53
81	Na/Ca Exchange: Regulator of Intracellular Calcium and Source of Arrhythmias in the Heart. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 315-325.	3.8	52
82	Interplay between SERCA and sarcolemmal Ca ²⁺ efflux pathways controls spontaneous release of Ca ²⁺ from the sarcoplasmic reticulum in rat ventricular myocytes. <i>Journal of Physiology</i> , 2004, 559, 121-128.	2.9	51
83	Stability and instability of regulation of intracellular calcium. <i>Experimental Physiology</i> , 2005, 90, 3-12.	2.0	51
84	Metabolic consequences of increasing intracellular calcium and force production in perfused ferret hearts.. <i>Journal of Physiology</i> , 1986, 376, 121-141.	2.9	50
85	Calcium in the heart: from physiology to disease. <i>Experimental Physiology</i> , 2014, 99, 1273-1282.	2.0	50
86	The interaction of potassium ions and ATP on the sodium pump of resealed red cell ghosts.. <i>Journal of Physiology</i> , 1981, 319, 403-418.	2.9	49
87	The relationship between sodium pump activity and twitch tension in cardiac Purkinje fibres. <i>Journal of Physiology</i> , 1980, 303, 475-494.	2.9	48
88	Stimulation of Ca-induced Ca release only transiently increases the systolic Ca transient: measurements of Ca fluxes and sarcoplasmic reticulum Ca. <i>Cardiovascular Research</i> , 1998, 37, 710-717.	3.8	48
89	Impaired β -adrenergic responsiveness accentuates dysfunctional excitation-contraction coupling in an ovine model of tachypacing-induced heart failure. <i>Journal of Physiology</i> , 2011, 589, 1367-1382.	2.9	47
90	Changes of SERCA activity have only modest effects on sarcoplasmic reticulum Ca ²⁺ content in rat ventricular myocytes. <i>Journal of Physiology</i> , 2011, 589, 4723-4729.	2.9	47

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91	The effects of ryanodine on calcium-overloaded sheep cardiac Purkinje fibers.. Circulation Research, 1985, 56, 452-456.	4.5	46
92	Local activation of contraction in isolated rat ventricular myocytes. American Journal of Physiology - Cell Physiology, 1990, 258, C1165-C1168.	4.6	46
93	A new technique for simultaneous and in situ measurements of Ca ²⁺ signals in arteriolar smooth muscle and endothelial cells. Cell Calcium, 2003, 34, 27-33.	2.4	46
94	Reduced SERCA2 abundance decreases the propensity for Ca ²⁺ wave development in ventricular myocytes. Cardiovascular Research, 2010, 86, 63-71.	3.8	46
95	Reproducibility of science: Fraud, impact factors and carelessness. Journal of Molecular and Cellular Cardiology, 2018, 114, 364-368.	1.9	46
96	Pseudoreplication in physiology: More means less. Journal of General Physiology, 2021, 153, .	1.9	46
97	Factors affecting the propagation of locally activated systolic Ca transients in rat ventricular myocytes. Pflugers Archiv European Journal of Physiology, 1993, 425, 181-183.	2.8	45
98	The mechanism and significance of the slow changes of ventricular action potential duration following a change of heart rate. Experimental Physiology, 2009, 94, 520-528.	2.0	45
99	Altered Cardiac Sarcoplasmic Reticulum Function of Intact Myocytes of Rat Ventricle During Metabolic Inhibition. Circulation Research, 2001, 88, 181-187.	4.5	44
100	Calcium Handling Defects and Cardiac Arrhythmia Syndromes. Frontiers in Pharmacology, 2020, 11, 72.	3.5	44
101	Sodium pump: Birthday present for digitalis. Nature, 1985, 316, 674-675.	27.8	42
102	Effects of metabolic inhibition and changes of intracellular pH on potassium permeability and contraction of rat uterus.. Journal of Physiology, 1993, 465, 43-56.	2.9	42
103	Ca-activated chloride current and Na-Ca exchange have different timecourses during sarcoplasmic reticulum Ca release in ferret ventricular myocytes. Pflugers Archiv European Journal of Physiology, 1998, 435, 743-745.	2.8	42
104	Perturbed atrial calcium handling in an ovine model of heart failure: Potential roles for reductions in the L-type calcium current. Journal of Molecular and Cellular Cardiology, 2015, 79, 169-179.	1.9	42
105	Effects of caffeine, tetracaine, and ryanodine on calcium-dependent oscillations in sheep cardiac Purkinje fibers.. Journal of General Physiology, 1985, 86, 877-889.	1.9	40
106	Cardiac Na-Ca Exchange and pH. Annals of the New York Academy of Sciences, 1996, 779, 182-198.	3.8	40
107	Effects of mefloquine on cardiac contractility and electrical activity in vivo , in isolated cardiac preparations, and in single ventricular myocytes. British Journal of Pharmacology, 2000, 129, 323-330.	5.4	40
108	Alternans of intracellular calcium: Mechanism and significance. Heart Rhythm, 2006, 3, 743-745.	0.7	40

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109	The effects of membrane potential, SR Ca ²⁺ content and RyR responsiveness on systolic Ca ²⁺ alternans in rat ventricular myocytes. <i>Journal of Physiology</i> , 2009, 587, 1283-1292.	2.9	40
110	The contribution of intracellular acidosis to the decline of developed pressure in ferret hearts exposed to cyanide. <i>Journal of Physiology</i> , 1987, 391, 99-108.	2.9	39
111	The mechanism of the increase of tonic tension produced by caffeine in sheep cardiac Purkinje fibres. <i>Journal of Physiology</i> , 1985, 364, 313-326.	2.9	38
112	The effects of thapsigargin on [Ca ²⁺] _i in isolated rat mesenteric artery vascular smooth muscle cells. <i>Pflügers Archiv European Journal of Physiology</i> , 1992, 420, 115-117.	2.8	38
113	Alternans of cardiac calcium cycling in a cluster of ryanodine receptors: a simulation study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H598-H609.	3.2	38
114	Sarcoplasmic Reticulum Ca-ATPase and Heart Failure 20 Years Later. <i>Circulation Research</i> , 2013, 113, 958-961.	4.5	38
115	Do calcium-activated potassium channels exist in the heart?. <i>Cell Calcium</i> , 1983, 4, 371-386.	2.4	37
116	The Contribution of Na-Ca Exchange to Relaxation in Mammalian Cardiac Muscle. <i>Annals of the New York Academy of Sciences</i> , 1991, 639, 444-452.	3.8	37
117	Carboxyeosin decreases the rate of decay of the [Ca ²⁺] _i transient in uterine smooth muscle cells isolated from pregnant rats. <i>Pflügers Archiv European Journal of Physiology</i> , 1998, 437, 158-160.	2.8	37
118	The effects of sodium pump activity on the slow inward current in sheep cardiac Purkinje fibres. <i>Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character</i> , 1982, 214, 249-262.	1.8	36
119	A measurable reduction of s.r. Ca content follows spontaneous Ca release in rat ventricular myocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 1997, 434, 852-854.	2.8	36
120	The Effects of Exogenous Calcium Buffers on the Systolic Calcium Transient in Rat Ventricular Myocytes. <i>Biophysical Journal</i> , 2001, 80, 1915-1925.	0.5	36
121	A functional role for transverse (t-) tubules in the atria. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 58, 84-91.	1.9	36
122	Mechanisms by which Cytoplasmic Calcium Wave Propagation and Alternans Are Generated in Cardiac Atrial Myocytes Lacking T-Tubules—Insights from a Simulation Study. <i>Biophysical Journal</i> , 2012, 102, 1471-1482.	0.5	35
123	Control of intracellular ionized calcium concentration by sarcolemmal and intracellular mechanisms. <i>Journal of Molecular and Cellular Cardiology</i> , 1984, 16, 137-146.	1.9	34
124	Changes of intracellular [Ca ²⁺] _i during refilling of sarcoplasmic reticulum in rat ventricular and vascular smooth muscle. <i>Journal of Physiology</i> , 1993, 465, 21-41.	2.9	34
125	The effects of inhibition of the sarcolemmal Ca-ATPase on systolic calcium fluxes and intracellular calcium concentration in rat ventricular myocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 1999, 437, 966-971.	2.8	34
126	Phosphodiesterase 5 inhibition improves contractile function and restores transverse tubule loss and catecholamine responsiveness in heart failure. <i>Scientific Reports</i> , 2019, 9, 6801.	3.3	34

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127	The role of intracellular Ca buffers in determining the shape of the systolic Ca transient in cardiac ventricular myocytes. Pflugers Archiv European Journal of Physiology, 2001, 442, 96-100.	2.8	33
128	Physiological and pathological modulation of ryanodine receptor function in cardiac muscle. Cell Calcium, 2004, 35, 583-589.	2.4	33
129	Balanced changes in Ca buffering by SERCA and troponin contribute to Ca handling during \hat{I}^2 -adrenergic stimulation in cardiac myocytes. Cardiovascular Research, 2014, 104, 347-354.	3.8	33
130	Factors controlling changes in intracellular Ca ²⁺ concentration produced by noradrenaline in rat mesenteric artery smooth muscle cells.. Journal of Physiology, 1995, 482, 247-258.	2.9	32
131	Integrative analysis of calcium signalling in cardiac muscle. Frontiers in Bioscience - Landmark, 2002, 7, d843.	3.0	32
132	The influence of chemical agents on the level of ionized [Ca ²⁺] in squid axons.. Journal of General Physiology, 1985, 85, 789-804.	1.9	31
133	2,3-Butanedione monoxime (BDM) decreases sarcoplasmic reticulum Ca content by stimulating Ca release in isolated rat ventricular myocytes. Pflugers Archiv European Journal of Physiology, 1998, 436, 776-781.	2.8	31
134	Variability of Spontaneous Ca ²⁺ Release Between Different Rat Ventricular Myocytes Is Correlated With Na ⁺ -Ca ²⁺ Exchange and [Na ⁺] _i . Circulation Research, 1996, 78, 857-862.	4.5	30
135	How Structure, Ca Signals, and Cellular Communications Underlie Function in Precapillary Arterioles. Circulation Research, 2009, 105, 803-810.	4.5	29
136	Changes of pH affect calcium currents but not outward potassium currents in rat myometrial cells. Pflugers Archiv European Journal of Physiology, 1995, 431, 135-137.	2.8	28
137	The role of the sarcolemmal Ca ²⁺ ATPase in the pH transients associated with contraction in rat smooth muscle. Journal of Physiology, 1997, 505, 329-336.	2.9	28
138	Something old, something new: Changing views on the cellular mechanisms of heart failure. Cardiovascular Research, 2005, 68, 167-174.	3.8	28
139	The Wellcome prize lecture. Intracellular sodium in cardiac muscle: effects on contraction. Experimental Physiology, 1990, 75, 437-457.	2.0	27
140	The sarcolemmal mechanisms involved in the control of diastolic intracellular calcium in isolated rat cardiac trabeculae. Pflugers Archiv European Journal of Physiology, 1996, 432, 961-969.	2.8	27
141	Systolic [Ca ²⁺] _i regulates diastolic levels in rat ventricular myocytes. Journal of Physiology, 2017, 595, 5545-5555.	2.9	26
142	Ups and downs of calcium in the heart. Journal of Physiology, 2018, 596, 19-30.	2.9	26
143	Disruption of Pressure-Induced Ca ²⁺ Spark Vasoregulation of Resistance Arteries, Rather Than Endothelial Dysfunction, Underlies Obesity-Related Hypertension. Hypertension, 2020, 75, 539-548.	2.7	26
144	Ca ²⁺ wave probability is determined by the balance between SERCA2-dependent Ca ²⁺ reuptake and threshold SR Ca ²⁺ content. Cardiovascular Research, 2011, 90, 503-512.	3.8	25

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145	Sodium Calcium Exchange in the Heart. <i>Circulation Research</i> , 2004, 95, 549-551.	4.5	24
146	The effects of hydrogen peroxide on intracellular calcium handling and contractility in the rat ventricular myocyte. <i>Cell Calcium</i> , 2010, 48, 341-351.	2.4	24
147	The effects of membrane potential on active and passive sodium transport in <i>Xenopus oocytes</i> .. <i>Journal of Physiology</i> , 1987, 385, 643-659.	2.9	23
148	Measurement of calcium entry and exit in quiescent rat ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 2000, 440, 600-608.	2.8	23
149	Direct measurements of SR free Ca reveal the mechanism underlying the transient effects of RyR potentiation under physiological conditions. <i>Cardiovascular Research</i> , 2014, 103, 554-563.	3.8	23
150	Relationship between intracellular pH and metabolite concentrations during metabolic inhibition in isolated ferret heart.. <i>Journal of Physiology</i> , 1993, 472, 11-22.	2.9	21
151	Heart Failure and the Ryanodine Receptor. <i>Circulation Research</i> , 2002, 91, 979-981.	4.5	21
152	Biphasic decay of the Ca transient results from increased sarcoplasmic reticulum Ca leak. <i>Journal of Physiology</i> , 2016, 594, 611-623.	2.9	21
153	Caffeine and tetracaine abolish the slow inward calcium current in sheep cardiac Purkinje fibres [proceedings]. <i>Journal of Physiology</i> , 1979, 293, 76P-77P.	2.9	21
154	A mechanism distinct from the L-type Ca current or Na ⁺ Ca exchange contributes to Ca entry in rat ventricular myocytes. <i>Cell Calcium</i> , 2006, 39, 417-423.	2.4	20
155	Simultaneous Measurement of Intracellular pH, Calcium, and Tension in Rat Mesenteric Vessels: Effects of Extracellular pH. <i>Biochemical and Biophysical Research Communications</i> , 1996, 222, 537-540.	2.1	19
156	Inhibition of the sodium pump by inorganic phosphate in resealed red cell ghosts.. <i>Journal of Physiology</i> , 1982, 326, 1-10.	2.9	18
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