Javier Alvarez

List of Publications by Year in descending order

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90 papers 4,607 citations

94269 37 h-index 102304 66 g-index

94 all docs 94 docs citations

94 times ranked 3626 citing authors

#	Article	IF	CITATIONS
1	Chromaffin-cell stimulation triggers fast millimolar mitochondrial Ca2+ transients that modulate secretion. Nature Cell Biology, 2000, 2, 57-61.	4.6	444
2	Transfected Aequorin in the Measurement of Cytosolic Ca2+ Concentration ([Ca2+]c). Journal of Biological Chemistry, 1995, 270, 9896-9903.	1.6	342
3	Monitoring dynamic changes in free Ca2+ concentration in the endoplasmic reticulum of intact cells EMBO Journal, 1995, 14, 5467-5475.	3. 5	275
4	Cytochrome P-450 may link intracellular Ca2+ stores with plasma membrane Ca2+ influx. Biochemical Journal, 1991, 274, 193-197.	1.7	183
5	Ca2+-induced Ca2+ Release in Chromaffin Cells Seen from inside the ER with Targeted Aequorin. Journal of Cell Biology, 1999, 144, 241-254.	2.3	170
6	Agonist-induced Ca2+ influx in human neutrophils is secondary to the emptying of intracellular calcium stores. Biochemical Journal, 1991, 277, 73-79.	1.7	154
7	Dynamics of [Ca2+] in the Endoplasmic Reticulum and Cytoplasm of Intact HeLa Cells. Journal of Biological Chemistry, 1997, 272, 27694-27699.	1.6	136
8	Direct activation of the mitochondrial calcium uniporter by natural plant flavonoids. Biochemical Journal, 2004, 384, 19-24.	1.7	128
9	Cytochrome P450 may regulate plasma membrane Ca 2+ permeability according to the filling state of the intracellular Ca 2+ stores. FASEB Journal, 1992, 6, 786-792.	0.2	122
10	Redistribution of Ca2+among cytosol and organella during stimulation of bovine chromaffin cells. FASEB Journal, 2002, 16, 343-353.	0.2	114
11	Ca2+ Homeostasis in the Endoplasmic Reticulum: Coexistence of High and Low [Ca2+] Subcompartments in Intact HeLa Cells. Journal of Cell Biology, 1997, 139, 601-611.	2.3	110
12	Agonist-induced Ca2+ influx into human platelets is secondary to the emptying of intracellular Ca2+ stores. Biochemical Journal, 1991, 280, 783-789.	1.7	102
13	Measuring [Ca2+] in the endoplasmic reticulum with aequorin. Cell Calcium, 2002, 32, 251-260.	1.1	102
14	Calcium microdomains in mitochondria and nucleus. Cell Calcium, 2006, 40, 513-525.	1.1	92
15	Mitochondrial Ca ²⁺ -induced Ca ²⁺ Release Mediated by the Ca ²⁺ Uniporter. Molecular Biology of the Cell, 2001, 12, 63-71.	0.9	84
16	Investigation of the structure and function of the human erythrocyte glucose transporter by proteolytic dissection. Biochimica Et Biophysica Acta - Biomembranes, 1987, 905, 295-310.	1.4	83
17	The plasma membrane Na+ /Ca2+ exchange inhibitor KB-R7943 is also a potent inhibitor of the mitochondrial Ca2+ uniporter. British Journal of Pharmacology, 2007, 151, 647-654.	2.7	82
18	[Ca ²⁺] Microdomains control agonistâ€induced Ca ²⁺ release in intact HeLa cells. FASEB Journal, 1997, 11, 881-885.	0.2	79

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19	A novel regulatory mechanism of the mitochondrial Ca 2+ uniporter revealed by the p38 mitogenâ€activated protein kinase inhibitor sb202190. FASEB Journal, 2002, 16, 1955-1957.	0.2	77
20	Silencing of the Charcot–Marie–Tooth disease-associated gene GDAP1 induces abnormal mitochondrial distribution and affects Ca2+ homeostasis by reducing store-operated Ca2+ entry. Neurobiology of Disease, 2013, 55, 140-151.	2.1	75
21	Functional measurements of [Ca2+] in the endoplasmic reticulum using a herpes virus to deliver targeted aequorin. Cell Calcium, 1998, 24, 87-96.	1.1	73
22	Antitumor alkyl-lysophospholipid analog edelfosine induces apoptosis in pancreatic cancer by targeting endoplasmic reticulum. Oncogene, 2012, 31, 2627-2639.	2.6	66
23	Monitoring mitochondrial [Ca2+] dynamics with rhod-2, ratiometric pericam and aequorin. Cell Calcium, 2010, 48, 61-69.	1.1	65
24	The mitochondrial Na+/Ca2+ exchanger plays a key role in the control of cytosolic Ca2+ oscillations. Cell Calcium, 2006, 40, 53-61.	1.1	59
25	Uptake of Ca2+ and refilling of intracellular Ca2+ stores in Ehrlich-ascites-tumour cells and in rat thymocytes. Biochemical Journal, 1990, 271, 535-540.	1.7	58
26	Control of plasma-membrane Ca2+ entry by the intracellular Ca2+ stores. Kinetic evidence for a short-lived mediator. Biochemical Journal, 1992, 288, 519-525.	1.7	55
27	Intravesicular Calcium Release Mediates the Motion and Exocytosis of Secretory Organelles. Journal of Biological Chemistry, 2008, 283, 22383-22389.	1.6	50
28	Modulation of Ca2+release and Ca2+oscillations in HeLa cells and fibroblasts by mitochondrial Ca2+uniporter stimulation. Journal of Physiology, 2007, 580, 39-49.	1.3	48
29	Modulation of mitochondrial Ca2+ uptake by estrogen receptor agonists and antagonists. British Journal of Pharmacology, 2005, 145, 862-871.	2.7	46
30	Calcium dynamics in bovine adrenal medulla chromaffin cell secretory granules. European Journal of Neuroscience, 2008, 28, 1265-1274.	1.2	46
31	Functional roles of MICU1 and MICU2 in mitochondrial Ca 2+ uptake. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1110-1117.	1.4	46
32	Mitochondrial free [Ca2+] dynamics measured with a novel low-Ca2+ affinity aequorin probe. Biochemical Journal, 2012, 445, 371-376.	1.7	45
33	Effects of extremely-law-frequency electromagnetic fields on ion transport in several mammalian cells. Bioelectromagnetics, 1994, 15, 579-588.	0.9	43
34	Ca2+ homeostasis in the endoplasmic reticulum measured with a new low-Ca2+-affinity targeted aequorin. Cell Calcium, 2013, 54, 37-45.	1.1	41
35	Control of Ca2+ entry into HL60 and U937 human leukaemia cells by the filling state of the intracellular Ca2+ stores. Biochemical Journal, 1993, 289, 761-766.	1.7	40
36	Conformational changes in concanavalin A associated with demetallization and \hat{l}_{\pm} -methylmannose binding studied by Fourier transform infrared spectroscopy. BBA - Proteins and Proteomics, 1987, 916, 5-12.	2.1	38

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37	Calcium dynamics in catecholamine-containing secretory vesicles. Cell Calcium, 2005, 37, 555-564.	1.1	38
38	Dynamics of mitochondrial Ca2+ uptake in MICU1-knockdown cells. Biochemical Journal, 2014, 458, 33-40.	1.7	35
39	Comparative effects of cytochrome P-450 inhibitors on Ca2+ and Mn2+ entry induced by agonists or by emptying the Ca2+ stores of human neutrophils. Biochimica Et Biophysica Acta - Molecular Cell Research, 1993, 1177, 127-133.	1.9	33
40	The Role of Ca2+ Signaling in Aging and Neurodegeneration: Insights from Caenorhabditis elegans Models. Cells, 2020, 9, 204.	1.8	33
41	Intracellular Ca2+ potentiates Na+ /H+ exchange and cell differentiation induced by phorbol ester in U937 cells. FEBS Journal, 1989, 183, 709-714.	0.2	31
42	Modulation of Histamine-induced Ca2+ Release by Protein Kinase C. Journal of Biological Chemistry, 2003, 278, 49972-49979.	1.6	27
43	Calcium signalling mediated through α7 and nonâ€Î±7 nAChR stimulation is differentially regulated in bovine chromaffin cells to induce catecholamine release. British Journal of Pharmacology, 2011, 162, 94-110.	2.7	27
44	Calcineurin-independent inhibition of mitochondrial Ca2+ uptake by cyclosporin A. British Journal of Pharmacology, 2004, 141, 263-268.	2.7	24
45	Mitochondrial free [Ca2+] levels and the permeability transition. Cell Calcium, 2009, 45, 243-250.	1.1	24
46	An estimate of the number of Ca2+-dependent K+ channels in the human red cell. Biochimica Et Biophysica Acta - Biomembranes, 1987, 903, 543-546.	1.4	23
47	Secretory Phospholipase A2 Induces Phospholipase \hat{Cl}^3 -1 Activation and Ca2+ Mobilization in the Human Astrocytoma Cell Line 1321N1 by a Mechanism Independent of Its Catalytic Activity. Biochemical and Biophysical Research Communications, 1999, 260, 99-104.	1.0	23
48	Modulation of secretion by the endoplasmic reticulum in mouse chromaffin cells. European Journal of Neuroscience, 2002, 16, 1690-1696.	1.2	23
49	Biphasic and differential modulation of Ca2+ entry by ATP and UTP in promyelocytic leukaemia HL60 cells. Biochemical Journal, 1995, 305, 879-887.	1.7	21
50	Control of secretion by mitochondria depends on the size of the local [Ca2+] after chromaffin cell stimulation. European Journal of Neuroscience, 2001, 13, 2247-2254.	1.2	21
51	On the role of intravesicular calcium in the motion and exocytosis of secretory organelles. Communicative and Integrative Biology, 2009, 2, 71-73.	0.6	21
52	Effects of electron donors on Ca2+-dependent K+ transport in one-step inside-out vesicles from the human erythrocyte membrane. Biochimica Et Biophysica Acta - Biomembranes, 1984, 771, 23-27.	1.4	20
53	Stimulation by thimerosal of histamine-induced Ca2+release in intact HeLa cells seen with aequorin targeted to the endoplasmic reticulum. Cell Calcium, 2001, 30, 181-190.	1.1	20
54	Effect of inositol 1,4,5-trisphosphate receptor stimulation on mitochondrial [Ca2+] and secretion in chromaffin cells. Biochemical Journal, 2002, 365, 451-459.	1.7	20

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55	Modulation of Calcium Entry by Mitochondria. Advances in Experimental Medicine and Biology, 2016, 898, 405-421.	0.8	18
56	Inhibition of Sarco-Endoplasmic Reticulum Ca2+ ATPase Extends the Lifespan in C. elegans Worms. Frontiers in Pharmacology, 2018, 9, 669.	1.6	18
57	Cerebral Oxygen Saturation and Negative Postoperative Behavioral Changes in Pediatric Surgery: A Prospective Observational Study. Journal of Pediatrics, 2019, 208, 207-213.e1.	0.9	18
58	Modeling Alzheimer's Disease in Caenorhabditis elegans. Biomedicines, 2022, 10, 288.	1.4	18
59	Functional Characterization of Three Concomitant MtDNA LHON Mutations Shows No Synergistic Effect on Mitochondrial Activity. PLoS ONE, 2016, 11, e0146816.	1.1	17
60	Effects of Long-Term Feeding of the Polyphenols Resveratrol and Kaempferol in Obese Mice. PLoS ONE, 2014, 9, e112825.	1.1	16
61	Dissociation of the effects of the antitumour ether lipid ET-18-OCH3 on cytosolic calcium and on apoptosis. British Journal of Pharmacology, 1997, 121, 1364-1368.	2.7	15
62	Mitochondrial Ca2+ Dynamics in MCU Knockout C. elegans Worms. International Journal of Molecular Sciences, 2020, 21, 8622.	1.8	15
63	All or none cell responses of Ca2+-dependent K channels elicited by calcium or lead in human red cells can be explained by heterogeneity of agonist distribution. Journal of Membrane Biology, 1988, 104, 129-138.	1.0	14
64	Agonist-induced Ca2+ influx in human neutrophils is not mediated by production of inositol polyphosphates but by emptying of the intracellular Ca2+ stores. Biochemical Society Transactions, 1994, 22, 809-813.	1.6	14
65	Dynamics of mitochondrial [Ca2+] measured with the low-Ca2+-affinity dye rhod-5N. Cell Calcium, 2012, 51, 65-71.	1.1	14
66	The role of calmodulin on Ca2+-dependent K+ transport regulation in the human red cell. Biochimica Et Biophysica Acta - Biomembranes, 1986, 860, 25-34.	1.4	13
67	Chemotactic peptide down-regulation of calcium mobilization induced by platelet-activating factor and by leukotriene B4 in human neutrophils is uncovered by protein phosphatase inhibitors. Biochemical Journal, 1994, 303, 559-566.	1.7	13
68	Long-term monitoring of Ca2+ dynamics in <i>C. elegans</i> pharynx: an <i>in vivo</i> energy balance sensor. Oncotarget, 2016, 7, 67732-67747.	0.8	13
69	The dynamics of mitochondrial Ca2+ fluxes. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1727-1735.	0.5	12
70	Pharynx mitochondrial [Ca2+] dynamics in live <i>C. elegans</i> worms during aging. Oncotarget, 2017, 8, 55889-55900.	0.8	11
71	Ca2+ influx following receptor activation. Trends in Pharmacological Sciences, 1992, 13, 12-13.	4.0	10
72	A confocal study on the visualization of chromaffin cell secretory vesicles with fluorescent targeted probes and acidic dyes. Journal of Structural Biology, 2010, 172, 261-269.	1.3	10

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73	The pathway for refilling intracellular Ca2+ stores passes through the cytosol in human leukaemia cells. Pflugers Archiv European Journal of Physiology, 1993, 424, 465-469.	1.3	9
74	The Neuroprotector Benzothiazepine CGP37157 Extends Lifespan in C. elegans Worms. Frontiers in Aging Neuroscience, 2018, 10, 440.	1.7	9
75	Regulation of inositol 1,4,5-trisphosphate-induced Ca2+ release from the endoplasmic reticulum by AMP-activated kinase modulators. Cell Calcium, 2019, 77, 68-76.	1.1	9
76	Modulation of Ca2+-dependent K+ transport by modifications of the NAD+/NADH ratio in intact human red cells. Biochimica Et Biophysica Acta - Biomembranes, 1986, 856, 408-411.	1.4	8
77	Subcellular Ca ²⁺ Dynamics. Physiology, 1999, 14, 161-168.	1.6	8
78	Ca2+ Dynamics in the Secretory Vesicles of Neurosecretory PC12 and INS1 Cells. Cellular and Molecular Neurobiology, 2010, 30, 1267-1274.	1.7	7
79	Calcium dynamics in the secretory granules of neuroendocrine cells. Cell Calcium, 2012, 51, 331-337.	1.1	7
80	Analysis of the all or nothing behaviour of Ca-dependent K channels in one-step inside-out vesicles from human red cell membranes. Biochimica Et Biophysica Acta - Biomembranes, 1986, 859, 56-60.	1.4	6
81	Inhibition of Ca2+-dependent K+ channels by lead in one-step inside-out vesicles from human red cell membranes. Biochimica Et Biophysica Acta - Biomembranes, 1986, 857, 291-294.	1.4	6
82	Novel antimigraineur dotarizine releases Ca2+ from caffeine-sensitive Ca2+ stores of chromaffin cells. British Journal of Pharmacology, 1999, 128, 621-626.	2.7	6
83	[22] Preparation and properties of one-step inside-out vesicles from red cell membranes. Methods in Enzymology, 1989, 173, 368-376.	0.4	5
84	Subcellular Ca ²⁺ Dynamics Measured with Targeted Aequorin in Chromaffin Cells. Annals of the New York Academy of Sciences, 2002, 971, 634-640.	1.8	5
85	Mechanism of the lifespan extension induced by submaximal SERCA inhibition in C. elegans. Mechanisms of Ageing and Development, 2021, 196, 111474.	2.2	5
86	Inhibition of red cell Ca2+-dependent K+ channels by snake venoms. Biochimica Et Biophysica Acta - Biomembranes, 1989, 980, 134-138.	1.4	4
87	Agonist-evoked Ca2+ entry in human platelets: a reply. Biochemical Journal, 1992, 285, 343-344.	1.7	4
88	The Mitochondrial Na+/Ca2+ Exchanger Inhibitor CGP37157 Preserves Muscle Structure and Function to Increase Lifespan and Healthspan in Caenorhabditis elegans. Frontiers in Pharmacology, 2021, 12, 695687.	1.6	4
89	Transient inhibition of capacitative calcium entry in human neutrophils by a monoclonal antibody directed against a 19-kDa antigen. Journal of Leukocyte Biology, 1996, 60, 323-327.	1.5	2
90	Ca2+-Activated Potassium Channels. , 1989, , 201-231.		1