

Ernesto Carafoli

List of Publications by Year in descending order

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391
papers

28,537
citations

4960

84
h-index

6996

154
g-index

409
all docs

409
docs citations

409
times ranked

14912
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracellular Calcium Homeostasis. Annual Review of Biochemistry, 1987, 56, 395-433.	11.1	2,127
2	Ion motive ATPases. I. Ubiquity, properties, and significance to cell function. Trends in Biochemical Sciences, 1987, 12, 146-150.	7.5	966
3	Calcium signaling: A tale for all seasons. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1115-1122.	7.1	726
4	Protein Identification by Mass Profile Fingerprinting. Biochemical and Biophysical Research Communications, 1993, 195, 58-64.	2.1	576
5	Calcium Pumps in Health and Disease. Physiological Reviews, 2009, 89, 1341-1378.	28.8	553
6	Cleavage of the Plasma Membrane Na ⁺ /Ca ²⁺ Exchanger in Excitotoxicity. Cell, 2005, 120, 275-285.	28.9	511
7	Neuronal calcium signaling: function and dysfunction. Cellular and Molecular Life Sciences, 2014, 71, 2787-2814.	5.4	501
8	Generation, Control, and Processing of Cellular Calcium Signals. Critical Reviews in Biochemistry and Molecular Biology, 2001, 36, 107-260.	5.2	459
9	Nature and site of phospholamban regulation of the Ca ²⁺ pump of sarcoplasmic reticulum. Nature, 1989, 342, 90-92.	27.8	446
10	Biogenesis: Plasma membrane calcium ATPase: 15 years of work on the purified enzyme ¹. FASEB Journal, 1994, 8, 993-1002.	0.5	391
11	The Interrelations between the Transport of Sodium and Calcium in Mitochondria of Various Mammalian Tissues. FEBS Journal, 1978, 82, 25-31.	0.2	386
12	Calmodulin-binding domains: just two faced or multi-faceted?. Trends in Biochemical Sciences, 1995, 20, 38-42.	7.5	372
13	Calpain: A Protease in Search of a Function?. Biochemical and Biophysical Research Communications, 1998, 247, 193-203.	2.1	352
14	The release of calcium from heart mitochondria by sodium. Journal of Molecular and Cellular Cardiology, 1974, 6, 361-371.	1.9	343
15	The Sodium-Induced Efflux of Calcium from Heart Mitochondria. A Possible Mechanism for the Regulation of Mitochondrial Calcium. FEBS Journal, 1976, 69, 453-462.	0.2	329
16	A survey of the interaction of calcium ions with mitochondria from different tissues and species. Biochemical Journal, 1971, 122, 681-690.	3.1	317
17	The effect of ruthenium red on Ca ²⁺ transport and respiration in rat liver mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1972, 256, 43-54.	1.0	309
18	Why Calcium? How Calcium Became the Best Communicator. Journal of Biological Chemistry, 2016, 291, 20849-20857.	3.4	295

#	ARTICLE	IF	CITATIONS
19	The Regulation of Intracellular Calcium. <i>Current Topics in Membranes and Transport</i> , 1978, , 151-216.	0.6	287
20	An ATP-dependent Ca ²⁺ -pumping system in dog heart sarcolemma. <i>Nature</i> , 1980, 283, 765-767.	27.8	282
21	Tissue Distribution of the Four Gene Products of the Plasma Membrane Ca ²⁺ Pump. <i>Journal of Biological Chemistry</i> , 1995, 270, 12184-12190.	3.4	258
22	The Calcium-Induced and Sodium-Induced Effluxes of Calcium from Heart Mitochondria. Evidence for a Sodium-Calcium Carrier. <i>FEBS Journal</i> , 1977, 79, 549-558.	0.2	256
23	Cleavage of plasma membrane calcium pumps by caspases: a link between apoptosis and necrosis. <i>Cell Death and Differentiation</i> , 2002, 9, 818-831.	11.2	247
24	Ion motive ATPases. II. Energy coupling and work output. <i>Trends in Biochemical Sciences</i> , 1987, 12, 186-189.	7.5	241
25	The plasma membrane Ca ²⁺ ATPase of animal cells: Structure, function and regulation. <i>Archives of Biochemistry and Biophysics</i> , 2008, 476, 65-74.	3.0	241
26	Mitochondrial fission and cristae disruption increase the response of cell models of Huntington's disease to apoptotic stimuli. <i>EMBO Molecular Medicine</i> , 2010, 2, 490-503.	6.9	240
27	The Plasma Membrane Ca ²⁺ ATPase and the Plasma Membrane Sodium Calcium Exchanger Cooperate in the Regulation of Cell Calcium. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a004168-a004168.	5.5	237
28	Energy-Linked Ion Movements in Mitochondrial Systems. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 2006, 29, 259-320.	1.3	225
29	Hydroperoxides can modulate the redox state of pyridine nucleotides and the calcium balance in rat liver mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1979, 76, 4340-4344.	7.1	221
30	The Steady State Maintenance of Accumulated Ca ⁺⁺ in Rat Liver Mitochondria. <i>Journal of Biological Chemistry</i> , 1965, 240, 2712-2720.	3.4	221
31	The Ca ²⁺ -pumping ATPase of plasma membranes purification, reconstitution and properties. <i>Biochimica Et Biophysica Acta - Reviews on Bioenergetics</i> , 1982, 683, 279-301.	0.2	208
32	The Regulation of the Na ⁺ -Ca ²⁺ Exchanger of Heart Sarcolemma. <i>FEBS Journal</i> , 1983, 132, 451-460.	0.2	205
33	Calcium signaling in the cell nucleus. <i>FASEB Journal</i> , 1997, 11, 1091-1109.	0.5	202
34	NMR Solution Structure of a Complex of Calmodulin with a Binding Peptide of the Ca ²⁺ -Pump. <i>Biochemistry</i> , 1999, 38, 12320-12332.	2.5	202
35	The calcium cycle of mitochondria. <i>FEBS Letters</i> , 1979, 104, 1-5.	2.8	190
36	THE REGULATION OF INTRACELLULAR CALCIUM BY MITOCHONDRIA. <i>Annals of the New York Academy of Sciences</i> , 1978, 307, 269-284.	3.8	183

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37	The Calcium Signal. <i>Scientific American</i> , 1985, 253, 70-78.	1.0	170
38	The calmodulin binding domain of nitric oxide synthase and adenylyl cyclase. <i>Biochemistry</i> , 1993, 32, 6081-6088.	2.5	169
39	The homeostasis of calcium in heart cells. <i>Journal of Molecular and Cellular Cardiology</i> , 1985, 17, 203-212.	1.9	168
40	Calcium Homeostasis and Mitochondrial Dysfunction in Striatal Neurons of Huntington Disease. <i>Journal of Biological Chemistry</i> , 2008, 283, 5780-5789.	3.4	168
41	Calcineurin controls inositol 1,4,5-trisphosphate type 1 receptor expression in neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 5797-5801.	7.1	163
42	The calmodulin-binding site of the plasma membrane Ca^{2+} pump interacts with the transduction domain of the enzyme. <i>Protein Science</i> , 1992, 1, 1613-1621.	7.6	161
43	The Calcium Pumping ATPase of the Plasma Membrane. <i>Annual Review of Physiology</i> , 1991, 53, 531-547.	13.1	160
44	Charge movements during the Na^{+} - Ca^{2+} exchange in heart sarcolemmal vesicles.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1980, 77, 6354-6358.	7.1	159
45	Calcium and calmodulin function in the cell nucleus. <i>BBA - Biomembranes</i> , 1992, 1113, 259-270.	8.0	150
46	Calcium pumps: structural basis for and mechanism of calcium transmembrane transport. <i>Current Opinion in Chemical Biology</i> , 2000, 4, 152-161.	6.1	147
47	Protein identification in DNA databases by peptide mass fingerprinting. <i>Protein Science</i> , 1994, 3, 1347-1350.	7.6	146
48	Calpain: A Cytosolic Proteinase Active at the Membranes. <i>Journal of Membrane Biology</i> , 1997, 156, 1-8.	2.1	146
49	A lipid requirement for the $(\text{Ca}^{2+} + \text{Mg}^{2+})$ -activated ATPase of erythrocyte membranes. <i>Archives of Biochemistry and Biophysics</i> , 1977, 179, 578-583.	3.0	145
50	Exporting calcium from cells. <i>Cell Calcium</i> , 2005, 38, 281-289.	2.4	145
51	Interaction of calmodulin with the calmodulin binding domain of the plasma membrane calcium pump. <i>Biochemistry</i> , 1990, 29, 355-365.	2.5	144
52	Primary structure of the cAMP-dependent phosphorylation site of the plasma membrane calcium pump. <i>Biochemistry</i> , 1989, 28, 4253-4258.	2.5	142
53	The plasma membrane calcium pump in health and disease. <i>FEBS Journal</i> , 2013, 280, 5385-5397.	4.7	139
54	The plasma membrane calcium pump: Functional domains, regulation of the activity, and tissue specificity of isoform expression. <i>Journal of Neurobiology</i> , 1994, 25, 312-324.	3.6	134

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55	The Fatty Acid Composition of Subcellular Membranes of Rat Liver, Heart, and Brain : Diet-Induced Modifications. FEBS Journal, 1981, 121, 5-13.	0.2	132
56	Historical review: Mitochondria and calcium: ups and downs of an unusual relationship. Trends in Biochemical Sciences, 2003, 28, 175-181.	7.5	132
57	Uptake of Adenine Nucleotides by Respiring Mitochondria during Active Accumulation of Ca ⁺⁺ and Phosphate. Journal of Biological Chemistry, 1965, 240, 2254-2261.	3.4	127
58	Isolation of a soluble Ca ²⁺ binding glycoprotein from ox liver mitochondria. Biochemical and Biophysical Research Communications, 1972, 47, 808-813.	2.1	125
59	Mapping of functional domains in the plasma membrane calcium pump using trypsin proteolysis. Biochemistry, 1990, 29, 8070-8076.	2.5	118
60	A Kinetic Study of the Energy-Linked Influx of Ca ²⁺ into Heart Mitochondria. FEBS Journal, 1976, 69, 429-434.	0.2	117
61	The cardiotoxic antibiotic doxorubicin inhibits the Na ⁺ /Ca ²⁺ exchange of dog heart sarcolemmal vesicles. FEBS Letters, 1981, 130, 184-186.	2.8	116
62	A functional study of plasma-membrane calcium-pump isoform 2 mutants causing digenic deafness. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1516-1521.	7.1	116
63	Intracellular Calcium Homeostasis and Signaling. Metal Ions in Life Sciences, 2013, 12, 119-168.	2.8	116
64	Small-angle x-ray scattering study of calmodulin bound to two peptides corresponding to parts of the calmodulin-binding domain of the plasma membrane calcium pump. Biochemistry, 1991, 30, 6247-6251.	2.5	114
65	Mutation of plasma membrane Ca ²⁺ ATPase isoform 3 in a family with X-linked congenital cerebellar ataxia impairs Ca ²⁺ homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14514-14519.	7.1	113
66	A historical review of cellular calcium handling, with emphasis on mitochondria. Biochemistry (Moscow), 2005, 70, 187-194.	1.5	111
67	The effect of ruthenium red on the uptake and release of Ca ²⁺ by mitochondria. Biochemical and Biophysical Research Communications, 1973, 50, 846-852.	2.1	110
68	The Energy-State of Mitochondria during the Transport of Ca ²⁺ . FEBS Journal, 1980, 110, 211-216.	0.2	109
69	Identification of two domains which mediate the binding of activating phospholipids to the plasma-membrane Ca ²⁺ pump. FEBS Journal, 1992, 204, 939-946.	0.2	109
70	Effects of PMCA and SERCA pump overexpression on the kinetics of cell Ca ²⁺ signalling. EMBO Journal, 2000, 19, 4926-4935.	7.8	108
71	Ca ²⁺ metabolism in yeast cells and mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1970, 205, 18-26.	1.0	106
72	The fateful encounter of mitochondria with calcium: How did it happen?. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 595-606.	1.0	106

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73	The Plasma Membrane Calcium Pump: New Ways to Look at an Old Enzyme. <i>Journal of Biological Chemistry</i> , 2014, 289, 10261-10268.	3.4	106
74	Calcium in Health and Disease. <i>Metal Ions in Life Sciences</i> , 2013, 13, 81-137.	2.8	105
75	Calcium Uptake in Isolated Hepatic Plasma-Membrane Vesicles. <i>FEBS Journal</i> , 1982, 129, 7-12.	0.2	104
76	The interaction of La ³⁺ with mitochondria in relation to respiration-coupled Ca ²⁺ transport. <i>Archives of Biochemistry and Biophysics</i> , 1971, 143, 506-515.	3.0	103
77	Nicotinic Acid Adenine Dinucleotide Phosphate-induced Ca ²⁺ Release. <i>Journal of Biological Chemistry</i> , 2000, 275, 8301-8306.	3.4	101
78	The Expression of Plasma Membrane Ca ²⁺ Pump Isoforms in Cerebellar Granule Neurons Is Modulated by Ca ²⁺ . <i>Journal of Biological Chemistry</i> , 1999, 274, 1667-1676.	3.4	100
79	Ca ²⁺ , K ⁺ Redistributions and Adrenergic Activation of Glycogenolysis in Perfused Rat Livers. <i>FEBS Journal</i> , 1980, 106, 241-248.	0.2	96
80	Downstream Regulatory Element Antagonist Modulator Regulates Ca ²⁺ Homeostasis and Viability in Cerebellar Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 10822-10830.	3.6	93
81	The Proton Pump of Cytochrome c Oxidase and Its Stoichiometry. <i>FEBS Journal</i> , 1978, 89, 119-123.	0.2	90
82	The calcium-signalling saga: tap water and protein crystals. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 326-332.	37.0	90
83	A Comparative Functional Analysis of Plasma Membrane Ca ²⁺ Pump Isoforms in Intact Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 24500-24508.	3.4	90
84	NAADP+initiates the Ca ²⁺ response during fertilization of starfish oocytes. <i>FASEB Journal</i> , 2001, 15, 2257-2267.	0.5	87
85	Calmodulin and calmodulin-binding proteins in the nucleus. <i>Cell Calcium</i> , 1994, 16, 289-296.	2.4	86
86	3-(Trifluoromethyl)-3-(m-[¹²⁵ I]iodophenyl)diazirine, a hydrophobic, photoreactive probe, labels calmodulin and calmodulin fragments in a calcium(2+)-dependent way. <i>Biochemistry</i> , 1984, 23, 400-403.	2.5	84
87	Influence of Ca ²⁺ and Trifluoperazine on the Structure of Calmodulin. <i>FEBS Journal</i> , 1982, 124, 619-627.	0.2	84
88	Calcineurin Controls the Transcription of Na ⁺ /Ca ²⁺ Exchanger Isoforms in Developing Cerebellar Neurons. <i>Journal of Biological Chemistry</i> , 2000, 275, 20903-20910.	3.4	83
89	Is hydroxychloroquine beneficial for COVID-19 patients?. <i>Cell Death and Disease</i> , 2020, 11, 512.	6.3	82
90	Immunolocalization of the plasma membrane Ca ²⁺ pump isoforms in the rat brain. <i>Brain Research</i> , 1997, 748, 21-29.	2.2	81

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91	The plasma membrane calcium pump: Recent developments and future perspectives. <i>Experientia</i> , 1996, 52, 1091-1100.	1.2	80
92	Calcium - a universal carrier of biological signals. <i>FEBS Journal</i> , 2005, 272, 1073-1089.	4.7	80
93	Cation and Anion Balance during Active Accumulation of Ca ⁺⁺ and Mg ⁺⁺ by Isolated Mitochondria. <i>Journal of Biological Chemistry</i> , 1964, 239, 3055-3061.	3.4	77
94	ELECTRON MICROSCOPE STUDIES ON THE ACTIVE ACCUMULATION OF SR ⁺⁺ BY RAT-LIVER MITOCHONDRIA. <i>Journal of Cell Biology</i> , 1966, 29, 37-61.	5.2	74
95	Calcium, protease action, and the regulation of the cell cycle. <i>Cell Calcium</i> , 1998, 23, 123-130.	2.4	74
96	Localization of two genes encoding plasma membrane Ca ²⁺ -transporting ATPases to human chromosomes 1q25 and 12q21. <i>Genomics</i> , 1991, 9, 629-641.	2.9	73
97	NMR Solution Structure of Phospholamban. <i>Helvetica Chimica Acta</i> , 2000, 83, 2141-2152.	1.6	73
98	Calcium Controls the Transcription of Its Own Transporters and Channels in Developing Neurons. <i>Biochemical and Biophysical Research Communications</i> , 1999, 266, 624-632.	2.1	72
99	History of the COVID-19 pandemic: Origin, explosion, worldwide spreading. <i>Biochemical and Biophysical Research Communications</i> , 2021, 538, 14-23.	2.1	72
100	Expression, Purification, and Characterization of Isoform 1 of the Plasma Membrane Ca ²⁺ Pump. <i>Journal of Biological Chemistry</i> , 2003, 278, 38141-38148.	3.4	71
101	Binding of Cytosolic Proteins to Myofibrils in Ischemic Rat Hearts. <i>Circulation Research</i> , 1996, 78, 821-828.	4.5	70
102	Facilitated nuclear transport of calmodulin in tissue culture cells. <i>Journal of Cell Biology</i> , 1994, 127, 1527-1536.	5.2	67
103	The plasma membrane calcium pump is the preferred calpain substrate within the erythrocyte. <i>Cell Calcium</i> , 1994, 15, 28-35.	2.4	67
104	Inhibitory Interaction of the 14-3-3 μ Protein with Isoform 4 of the Plasma Membrane Ca ²⁺ -ATPase Pump. <i>Journal of Biological Chemistry</i> , 2005, 280, 37195-37203.	3.4	67
105	Quantitative Analysis of the Proton and Charge Stoichiometry of Cytochrome c Oxidase from Beef Heart Reconstituted into Phospholipid Vesicles. <i>FEBS Journal</i> , 1980, 111, 299-306.	0.2	65
106	Rearrangement of nuclear calmodulin during proliferative liver cell activation. <i>Biochemical and Biophysical Research Communications</i> , 1988, 150, 1162-1169.	2.1	64
107	Active accumulation of Sr ²⁺ by rat-liver mitochondria III. Stimulation of respiration by Sr ²⁺ and its stoichiometry. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1965, 97, 107-117.	2.4	63
108	Mitochondria and disease. <i>Molecular Aspects of Medicine</i> , 1980, 3, 295-429.	6.4	63

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109	Active accumulation of Sr ²⁺ by rat-liver mitochondria I. General features. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1965, 97, 88-98.	2.4	62
110	Interaction of Ca ²⁺ with Blowfly Flight Muscle Mitochondria. <i>Journal of Biological Chemistry</i> , 1971, 246, 964-972.	3.4	62
111	Mitochondria, Ca ²⁺ transport and the regulation of heart contraction and metabolism. <i>Journal of Molecular and Cellular Cardiology</i> , 1975, 7, 83-89.	1.9	59
112	Localization and properties of a high-affinity (Ca ²⁺ + Mg ²⁺)-ATPase in isolated kidney cortex plasma membranes. <i>FEBS Letters</i> , 1982, 144, 226-230.	2.8	59
113	The mitochondrial phosphate carrier reconstituted in liposomes is inhibited by doxorubicin. <i>FEBS Letters</i> , 1983, 159, 123-126.	2.8	59
114	[1] Membrane transport of calcium: An overview. <i>Methods in Enzymology</i> , 1988, 157, 3-11.	1.0	59
115	COVID19: an announced pandemic. <i>Cell Death and Disease</i> , 2020, 11, 799.	6.3	59
116	The resolution of calcium fluxes in heart and liver mitochondria using the lanthanide series. <i>FEBS Letters</i> , 1979, 104, 352-354.	2.8	58
117	Fluorescence energy transfer analysis of calmodulin.cntdot.peptide complexes. <i>Biochemistry</i> , 1992, 31, 12819-12825.	2.5	58
118	Calcineurin Controls the Expression of Isoform 4CII of the Plasma Membrane Ca ²⁺ Pump in Neurons. <i>Journal of Biological Chemistry</i> , 2000, 275, 3706-3712.	3.4	58
119	Calcium-mediated cellular signals: a story of failures. <i>Trends in Biochemical Sciences</i> , 2004, 29, 371-379.	7.5	58
120	Ca ²⁺ Signaling in HEK-293 and Skeletal Muscle Cells Expressing Recombinant Ryanodine Receptors Harboring Malignant Hyperthermia and Central Core Disease Mutations. <i>Journal of Biological Chemistry</i> , 2005, 280, 15380-15389.	3.4	58
121	Microdiversity of human-plasma-membrane calcium-pump isoform 2 generated by alternative RNA splicing in the N-terminal coding region. <i>FEBS Journal</i> , 1992, 205, 333-340.	0.2	57
122	PEST Sequences Do Not Influence Substrate Susceptibility to Calpain Proteolysis. <i>Journal of Biological Chemistry</i> , 1995, 270, 2032-2035.	3.4	57
123	Expression, partial purification and functional properties of the muscle-specific calpain isoform p94. <i>FEBS Journal</i> , 1999, 265, 839-846.	0.2	56
124	The Novel Mouse Mutation Oblivion Inactivates the PMCA2 Pump and Causes Progressive Hearing Loss. <i>PLoS Genetics</i> , 2008, 4, e1000238.	3.5	56
125	Effects of calmodulin on the (Ca ²⁺ + Mg ²⁺)ATPase partially purified from erythrocyte membranes. <i>Archives of Biochemistry and Biophysics</i> , 1979, 198, 124-130.	3.0	55
126	Binding of calcium by calmodulin: influence of the calmodulin binding domain of the plasma membrane calcium pump. <i>Biochemistry</i> , 1992, 31, 3171-3176.	2.5	55

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127	The Novel PMCA2 Pump Mutation Tommy Impairs Cytosolic Calcium Clearance in Hair Cells and Links to Deafness in Mice. <i>Journal of Biological Chemistry</i> , 2010, 285, 37693-37703.	3.4	53
128	Ca ²⁺ transporting activity of membrane fractions isolated from the post-mitochondrial supernatant of rat liver. <i>Cell Calcium</i> , 1982, 3, 263-281.	2.4	52
129	Active accumulation of Sr ²⁺ by rat-liver mitochondria II. Competition between Ca ²⁺ and Sr ²⁺ . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1965, 97, 99-106.	2.4	50
130	The Ca ²⁺ -Na ⁺ antiporter of heart mitochondria operates electroneutrally. <i>Biochemical and Biophysical Research Communications</i> , 1980, 95, 193-196.	2.1	50
131	Regulation of the calcium ion pump of sarcoplasmic reticulum: Reversible inhibition by phospholamban and by the calmodulin binding domain of the plasma membrane calcium pump. <i>Biochemistry</i> , 1992, 31, 371-376.	2.5	50
132	The Organization of the Human Gene NCX1 Encoding the Sodium-Calcium Exchanger. <i>Genomics</i> , 1996, 37, 105-112.	2.9	50
133	Phosphorylation of Calmodulin Alters Its Potency as an Activator of Target Enzymes. <i>Biochemistry</i> , 1998, 37, 6523-6532.	2.5	50
134	Tyrosine phosphorylation modulates the interaction of calmodulin with its target proteins. <i>FEBS Journal</i> , 1999, 262, 790-802.	0.2	49
135	BCG vaccination policy and preventive chloroquine usage: do they have an impact on COVID-19 pandemic?. <i>Cell Death and Disease</i> , 2020, 11, 516.	6.3	49
136	A comparative study of the role of mitochondria and the sarcoplasmic reticulum in the uptake and release of Ca ⁺⁺ by the rat diaphragm. <i>Journal of Cellular Physiology</i> , 1969, 74, 17-29.	4.1	48
137	The interplay of mitochondria with calcium: An historical appraisal. <i>Cell Calcium</i> , 2012, 52, 1-8.	2.4	48
138	Interactions between prostaglandin E1 and calcium at the level of the mitochondrial membrane. <i>Archives of Biochemistry and Biophysics</i> , 1973, 154, 40-46.	3.0	47
139	The anticalmodulin drugs trifluoperazine and R24571 remove the activation of the purified erythrocyte Ca ²⁺ -ATPase by acidic phospholipids and by controlled proteolysis. <i>FEBS Letters</i> , 1982, 143, 65-68.	2.8	47
140	Biodiversity loss and COVID-19 pandemic: The role of bats in the origin and the spreading of the disease. <i>Biochemical and Biophysical Research Communications</i> , 2021, 538, 2-13.	2.1	47
141	THE OXIDATION OF EXOGENOUS AND ENDOGENOUS CYTOCHROME C IN MITOCHONDRIA. <i>Journal of Cell Biology</i> , 1969, 40, 602-621.	5.2	46
142	Identification and primary structure of the cardiolipin-binding domain of mitochondrial creatine kinase. <i>FEBS Journal</i> , 1988, 171, 1-9.	0.2	46
143	Study of calmodulin binding to the alternatively spliced C-terminal domain of the plasma membrane calcium pump. <i>Biochemistry</i> , 1992, 31, 11785-11792.	2.5	46
144	Colocalization of the Dihydropyridine Receptor, the Plasma-Membrane Calcium ATPase Isoform 1 and the Sodium/Calcium Exchanger to the Junctional-Membrane Domain of Transverse Tubules of Rabbit Skeletal Muscle. <i>FEBS Journal</i> , 1996, 237, 483-488.	0.2	46

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145	The Role of Inorganic Phosphate in the Release of Ca ²⁺ from Rat-Liver Mitochondria. FEBS Journal, 1980, 110, 319-325.	0.2	45
146	ATP synthesis catalyzed by the purified erythrocyte calcium-ATPase in the absence of calcium gradients. Biochemistry, 1984, 23, 2595-2600.	2.5	45
147	Purification and Reconstitution of the Ca ²⁺ -Pumping ATPase of Red Blood Cells. Methods, 1994, 6, 3-10.	3.8	45
148	Neuronal Ca ²⁺ dyshomeostasis in Huntington disease. Prion, 2013, 7, 76-84.	1.8	45
149	Effects of prostaglandins on the interaction of Ca ²⁺ with mitochondria. Archives of Biochemistry and Biophysics, 1975, 171, 418-423.	3.0	44
150	The plasma membrane calcium pumps: focus on the role in (neuro)pathology. Biochemical and Biophysical Research Communications, 2017, 483, 1116-1124.	2.1	44
151	THE CALCIUM-TRANSPORTING ATPase OF ERYTHROCYTES. Annals of the New York Academy of Sciences, 1982, 402, 304-328.	3.8	43
152	Purified red blood cell Ca ²⁺ -pump ATPase: Evidence for direct inhibition by presumed anti-calmodulin drugs in the absence of calmodulin. Cell Calcium, 1982, 3, 545-559.	2.4	43
153	A high-affinity, calmodulin-dependent Ca ²⁺ pump in the basal-lateral plasma membranes of kidney cortex. FEBS Journal, 1983, 136, 71-76.	0.2	43
154	Super-stoichiometric Ratios between Ion Movements and Electron Transport in Rat Liver Mitochondria. Journal of Biological Chemistry, 1967, 242, 1199-1204.	3.4	43
155	Separate pathways for Ca ²⁺ uptake and release in liver mitochondria. FEBS Letters, 1978, 96, 339-342.	2.8	42
156	Calcium ATPase in Erythrocytes of Spontaneously Hypertensive Rats of the Milan Strain. Journal of Hypertension, 1985, 3, 645-648.	0.5	42
157	Expression and Functional Characterization of Isoforms 4 of the Plasma Membrane Calcium Pump. Biochemistry, 1996, 35, 7946-7953.	2.5	42
158	The interaction of Ca ²⁺ with mitochondria, with special reference to the structural role of Ca ²⁺ in mitochondrial and other membranes. Molecular and Cellular Biochemistry, 1975, 8, 133-140.	3.1	41
159	The transport of Ca ²⁺ in a purified population of inside-out vesicles from rat liver mitochondria. FEBS Letters, 1979, 99, 194-198.	2.8	41
160	Subcellular targeting of the endoplasmic reticulum and plasma membrane Ca ²⁺ pumps: a study using recombinant chimeras. FASEB Journal, 1995, 9, 670-680.	0.5	41
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