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New calcium indicators and buffers with high selectivity against magnesium and protons: design, synthesis, and properties of prototype structures

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#	Paper	IF	Citations
2087	Calcium imaging in the optical stretcher. <b>2011</b> , 19, 19212		
2086	Calcium imaging in the optical stretcher. <b>2011</b> , 19, 19212		
2085	Imaging Ca <sup>2+</sup> with a Fluorescent Rhodol.		
2084	Abstract.		
2083	Detection and measurement of intracellular calcium. <b>1981</b> , 4, 46-50		6
2082	A non-disruptive technique for loading calcium buffers and indicators into cells. <b>1981</b> , 290, 527-8		985
2081	Myoplasmic free calcium concentration reached during the twitch of an intact isolated cardiac cell and during calcium-induced release of calcium from the sarcoplasmic reticulum of a skinned cardiac cell from the adult rat or rabbit ventricle. <b>1981</b> , 78, 457-97		534
2080	Arsenazo III and antipyrylazo III calcium transients in single skeletal muscle fibers. <b>1982</b> , 79, 679-707		72
2079	Cytoplasmic free [Ca <sup>2+</sup> ] in very small intact cells. <b>1982</b> , 10, 209		12
2078	Calcium homeostasis in intact lymphocytes: cytoplasmic free calcium monitored with a new, intracellularly trapped fluorescent indicator. <b>1982</b> , 94, 325-34		2066
2077	The effect of pH on the rate of relaxation of isolated barnacle myofibrillar bundles. <b>1982</b> , 681, 130-7		4
2076	Calcium permeability of Ehrlich ascites tumour cell plasma membrane in vivo. <b>1982</b> , 686, 27-35		24
2075	Calcium ions, drug action and the red cell membrane. <b>1982</b> , 18, 271-92		19
2074	Measurement of Ca <sup>2+</sup> concentrations in living cells. <b>1982</b> , 40, 1-114		590
2073	ION-SELECTIVE MICROELECTRODES AND FLUORESCENT PROBES FOR MEASUREMENT OF INTRACELLULAR ION ACTIVITIES. <b>1982</b> , 53-64		2
2072	T-cell mitogens cause early changes in cytoplasmic free Ca <sup>2+</sup> and membrane potential in lymphocytes. <b>1982</b> , 295, 68-71		949
2071	Physiological [Ca <sup>2+</sup> ] <sub>i</sub> level and pump-leak turnover in intact red cells measured using an incorporated Ca chelator. <b>1982</b> , 298, 478-81		234

2070	Reduction of the cytosolic calcium activity in clonal insulin-releasing cells exposed to glucose. <b>1983</b> , 3, 939-46		47
2069	A survey of the available colorimetric indicators for Ca <sup>2+</sup> and Mg <sup>2+</sup> ions in biological experiments. <i>Cell Calcium</i> , <b>1983</b> , 4, 47-55	4	15
2068	Multistation multiparameter flow cytometry: a critical review and rationale. <b>1983</b> , 3, 227-43		120
2067	Intracellular measurements of ion activities. <b>1983</b> , 12, 91-116		206
2066	Evoked transient intracellular free Ca <sup>2+</sup> changes and secretion in isolated bovine adrenal medullary cells. <b>1983</b> , 218, 177-99		135
2065	Effect of cyclic AMP on cytoplasmic free calcium in human platelets stimulated by thrombin: direct measurement with quin2. <b>1983</b> , 32, 183-8		74
2064	A new direction in the study of carbon tetrachloride hepatotoxicity. <b>1983</b> , 33, 401-8		183
2063	Direct demonstration of increased intracellular concentration of free calcium in rabbit and human neutrophils following stimulation by chemotactic factor. <b>1983</b> , 113, 44-50		172
2062	Intracellular free calcium concentrations in isolated pancreatic acini; effects of secretagogues. <b>1983</b> , 117, 122-8		105
2061	The cytoplasmic concentration of free calcium in platelets is controlled by stimulators of cyclic AMP production (PGD <sub>2</sub> , PGE <sub>1</sub> , forskolin). <b>1983</b> , 113, 598-604		201
2060	Intracellular pH and free calcium changes in single cells using quene 1 and quin 2 probes and fluorescence microscopy. <i>FEBS Letters</i> , <b>1983</b> , 161, 21-7	3.8	55
2059	Measurement of free calcium concentration in living cells. <b>1983</b> , 55, 1977-1988		13
2058	Intracellular calcium measurements by <sup>19</sup> F NMR of fluorine-labeled chelators. <b>1983</b> , 80, 7178-82		178
2057	The role of calcium in the regulation of sugar transport in the pigeon red blood cell. <i>Journal of Physiology</i> , <b>1983</b> , 338, 501-25	3.9	14
2056	Calcium-induced release of calcium from the cardiac sarcoplasmic reticulum. <b>1983</b> , 245, C1-14		1447
2055	Selectivity of the Ca binding site in synaptosome Ca channels. Inhibition of Ca influx by multivalent metal cations. <b>1984</b> , 83, 941-67		182
2054	Thyrotropin-releasing hormone-induced changes in intracellular [Ca <sup>2+</sup> ] measured by microspectrofluorometry on individual quin2-loaded cells. <b>1984</b> , 99, 1167-72		84
2053	Measurement of receptor induced changes in intracellular free calcium in human platelets. <b>1984</b> , 4, 587-604		24

2052	Measurement of cytosolic free calcium concentration in isolated rat ventricular myocytes with quin 2. <b>1984</b> , 55, 830-4		63
2051	Correlation of platelet calcium with blood pressure. Effect of antihypertensive therapy. <b>1984</b> , 310, 1084-8		496
2050	Thyrotropin-releasing hormone increases cytosolic free Ca <sup>2+</sup> in clonal pituitary cells (GH3 cells): direct evidence for the mobilization of cellular calcium. <b>1984</b> , 99, 83-7		132
2049	A comparison of the effects of soluble stimuli on free cytoplasmic and membrane bound calcium in human neutrophils. <i>Cell Calcium</i> , <b>1984</b> , 5, 237-51	4	26
2048	Is intracellular Ca <sup>2+</sup> the trigger for oxygen radical production by polymorphonuclear leucocytes?. <i>Cell Calcium</i> , <b>1984</b> , 5, 1-19	4	70
2047	Cyclic nucleotides control a system which regulates Ca <sup>2+</sup> sensitivity of platelet secretion. <b>1984</b> , 309, 66-8		145
2046	Thrombin and activators of protein kinase C modulate secretory responses of permeabilised human platelets induced by Ca <sup>2+</sup> . <b>1984</b> , 143, 437-46		83
2045	The role of T3 in the activation of human T cells. <b>1984</b> , 4, 165-73		56
2044	Effect of halomethanes on intracellular calcium distribution in hepatocytes. <b>1984</b> , 35, 1231-40		18
2043	Cytoplasmic free calcium concentration in porcine platelets. <b>1984</b> , 800, 178-187		15
2042	Changes in free-calcium levels and pH in synaptosomes during transmitter release. <b>1984</b> , 803, 215-20		39
2041	The characterization of invertebrate troponin C. <b>1984</b> , 79, 525-9		4
2040	The mechanism of alpha-adrenergic agonist action in liver. <b>1984</b> , 59, 511-57		21
2039	Some mitogens cause rapid increases in free calcium in fibroblasts. <i>FEBS Letters</i> , <b>1984</b> , 169, 189-93	3.8	73
2038	Stopped-flow kinetics of the interaction of the fluorescent calcium indicator Quin 2 with calcium ions. <b>1984</b> , 123, 604-11		36
2037	Introduction of calcium chelators into isolated rat pancreatic acini inhibits amylase release in response to carbamylcholine. <b>1984</b> , 119, 876-83		35
2036	Cytoplasmic free calcium measured by quin2 fluorescence in isolated ventricular myocytes at rest and during potassium-depolarization. <b>1984</b> , 122, 1012-20		68
2035	Calcium control of exocytosis in bovine adrenal medullary cells. <b>1984</b> , 7, 120-126		83

2034	Intracellular Ca <sup>2+</sup> elevation induced by a neurotransmitter in a glial cell clone. <b>1984</b> , 322, 127-30		32
2033	Measuring and manipulating cytosolic Ca <sup>2+</sup> with trapped indicators. <b>1984</b> , 9, 263-266		93
2032	Complexometric titration of milk for calcium plus magnesium, and calcium only. <b>1984</b> , 51, 477-480		1
2031	Measurement of intrasynaptosomal free calcium by using the fluorescent indicator quin-2. <i>Biochemical Journal</i> , <b>1984</b> , 219, 149-58	3.8	100
2030	Calcium signals and phospholipid methylation in eukaryotic cells. <i>Biochemical Journal</i> , <b>1984</b> , 221, 675-84	3.8	43
2029	The role of calcium ions in the mechanism of action of alpha-adrenergic agonists in rat liver. <i>Biochemical Journal</i> , <b>1984</b> , 223, 1-13	3.8	189
2028	Fluorescence measurements of intrasynaptosomal free calcium by using a Quin dye. <b>1984</b> , 12, 869-870		1
2027	Quin 2: the dissociation constants of its Ca <sup>2+</sup> and Mg <sup>2+</sup> complexes and its use in a fluorimetric method for determining the dissociation of Ca <sup>2+</sup> -protein complexes. <i>Biochemical Journal</i> , <b>1985</b> , 226, 613-6	3.8	36
2026	Role of Ca <sup>2+</sup> in pyruvate dehydrogenase interconversion in brain mitochondria and synaptosomes. <i>Biochemical Journal</i> , <b>1985</b> , 227, 129-36	3.8	93
2025	Ca <sup>2+</sup> fluxes and cytosolic Ca <sup>2+</sup> concentrations in normal and in cholesteroldepleted erythrocytes measured with permeant Ca <sup>2+</sup> chelators. <b>1985</b> , 13, 691-692		1
2024	Intracellular free calcium levels are reduced in mitotic Pt K2 epithelial cells. <b>1985</b> , 82, 800-4		43
2023	Effects of electrical stimulation and an intracellular calcium chelator on calcium movement in suspensions of isolated myocardial muscle cells. <b>1985</b> , 19, 370-7		10
2022	Calcium-dependent chloride secretion in rat colon epithelium. <i>Journal of Physiology</i> , <b>1985</b> , 361, 1-17	3.9	11
2021	Potassium channels in cultured bovine adrenal chromaffin cells. <i>Journal of Physiology</i> , <b>1985</b> , 367, 117-41	3.9	259
2020	Intracellular calcium regulates basolateral potassium channels in a chloride-secreting epithelium. <b>1985</b> , 82, 8823-6		71
2019	Removal of Ca current inactivation in dialysed guinea-pig atrial cardioballs by Ca chelators. <b>1985</b> , 404, 10-20		69
2018	Protein kinase C regulation of the receptor-coupled calcium signal in histamine-secreting rat basophilic leukaemia cells. <b>1985</b> , 313, 59-60		175
2017	A common sequence of calcium and pH signals in the mitogenic stimulation of eukaryotic cells. <b>1985</b> , 313, 481-4		446

2016	Effects on the photoresponse of calcium buffers and cyclic GMP incorporated into the cytoplasm of retinal rods. <b>1985</b> , 313, 582-5		103
2015	Carbon-dioxide-induced exocytotic insertion of H <sup>+</sup> pumps in turtle-bladder luminal membrane: role of cell pH and calcium. <b>1985</b> , 314, 443-6		115
2014	Intracellular Ca indicator Quin-2 inhibits Ca <sup>2+</sup> inflow via Na/Ca exchange in squid axon. <b>1985</b> , 315, 755-6		68
2013	Antigen-dependent increase in cytosolic free calcium in specific human T-lymphocyte clones. <b>1985</b> , 316, 545-7		91
2012	Calcium clamp of the intracellular environment. <i>Cell Calcium</i> , <b>1985</b> , 6, 5-14	4	30
2011	Using quin2 in cell suspensions. <i>Cell Calcium</i> , <b>1985</b> , 6, 133-44	4	178
2010	Kinetic investigations in single muscle fibres using luminescent and fluorescent Ca <sup>2+</sup> probes. <i>Cell Calcium</i> , <b>1985</b> , 6, 159-81	4	15
2009	Free cytosolic Ca <sup>2+</sup> measurements with fluorine labelled indicators using <sup>19</sup> FNMR. <i>Cell Calcium</i> , <b>1985</b> , 6, 183-95	4	104
2008	Intracellular calcium fluxes in human platelets. <b>1985</b> , 147, 421-7		25
2007	Kinetics of calcium dissociation from calmodulin and its tryptic fragments. A stopped-flow fluorescence study using Quin 2 reveals a two-domain structure. <b>1985</b> , 151, 543-50		115
2006	Cyclic AMP potentiates glucose-induced insulin release from mouse pancreatic islets without increasing cytosolic free Ca <sup>2+</sup> . <b>1985</b> , 125, 639-47		50
2005	Neue saure Komplexe mit Bipyridin-Ankergruppen und ihre Kation-Selektivität. <b>1985</b> , 118, 22-27		8
2004	Insulin receptor capping and its correlation with calmodulin-dependent myosin light chain kinase. <b>1985</b> , 124, 403-10		12
2003	Relation between free cytosolic calcium and amylase release by pancreatic acini. <b>1985</b> , 249, G389-98		14
2002	Thyrotropin-releasing hormone action: mechanism of calcium-mediated stimulation of prolactin secretion. <b>1985</b> , 41, 607-53		10
2001	Assessment of effects of vasopressin, angiotensin II, and glucagon on Ca <sup>2+</sup> fluxes and phosphorylase activity in liver. <b>1985</b> , 109, 550-8		49
2000	The calcium ionophore A23187 evokes and potentiates antiviral activity of interferon. <b>1985</b> , 5, 605-12		7
1999	Flow Cytometry: Present and Future. <b>1985</b> , 3, 337-356		78

1998	Intracellular calcium regulation and the measurement of free calcium in 2H3 cells and synaptosomes. <b>1985</b> , 20 Suppl 2, 221S-231S		5
1997	Metal chelators as potential antiviral agents. <b>1985</b> , 5, 193-205		45
1996	Dynamic and structural properties of the calcium binding site of bovine serine proteases and their zymogens. A multinuclear nuclear magnetic resonance and stopped-flow study. <b>1985</b> , 185, 201-7		34
1995	Time and calcium dependence of activation and inactivation of calcium-induced release of calcium from the sarcoplasmic reticulum of a skinned canine cardiac Purkinje cell. <b>1985</b> , 85, 247-89		813
1994	Measurement of free Ca <sup>2+</sup> changes and total Ca <sup>2+</sup> release in a single striated muscle fibre using the fluorescent indicator quin 2. <b>1985</b> , 128, 1180-9		6
1993	Direct measurements of increased free cytoplasmic Ca <sup>2+</sup> in mouse pancreatic beta-cells following stimulation by hypoglycemic sulfonylureas. <i>FEBS Letters</i> , <b>1985</b> , 190, 21-4	3.8	29
1992	High affinity binding of divalent cation to actin monomer is much stronger than previously reported. <b>1986</b> , 135, 607-14		62
1991	Cross-linking of surface immunoglobulin on B lymphocytes induces both intracellular Ca <sup>2+</sup> release and Ca <sup>2+</sup> influx: analysis with indo-1. <b>1986</b> , 137, 500-6		101
1990	External calcium, intrasynaptosomal free calcium and neurotransmitter release. <b>1986</b> , 854, 207-12		21
1989	Cholesterol depletion affects the Ca <sup>2+</sup> influx but not the Ca <sup>2+</sup> pump in human erythrocytes. <b>1986</b> , 863, 253-63		9
1988	Fura-2 diffusion and its use as an indicator of transient free calcium changes in single striated muscle cells. <i>FEBS Letters</i> , <b>1986</b> , 209, 1-8	3.8	58
1987	Control of cytoplasmic calcium with photolabile tetracarboxylate 2-nitrobenzhydrol chelators. <b>1986</b> , 50, 843-53		111
1986	A calcium-activated sodium conductance contributes to the fertilization potential in the egg of the nemertean worm <i>Cerebratulus lacteus</i> . <b>1986</b> , 117, 184-93		24
1985	Alterations in intracellular calcium activity and contractility of isolated perfused rabbit hearts by ionophores and adrenergic agents. <b>1986</b> , 139, 816-21		30
1984	Influence of 1,25-hydroxyvitamin D3 on cytosolic free calcium concentrations. <b>1986</b> , 141, 1236-41		10
1983	Calcium and calmodulin in the regulation of the microtubular cytoskeleton. <b>1986</b> , 466, 375-91		16
1982	Calcium ions act as modulators of intracellular information flow in retinal rod phototransduction. <b>1986</b> , 4, S11-34		15
1981	Blockade of current through single calcium channels by Cd <sup>2+</sup> , Mg <sup>2+</sup> , and Ca <sup>2+</sup> . Voltage and concentration dependence of calcium entry into the pore. <b>1986</b> , 88, 321-47		504

1980	On the nature of calcium ion binding between phosphatidylserine lamellae. <i>Biochemistry</i> , <b>1986</b> , 25, 5819-25	120
1979	Calcium ions act as modulators of intracellular information flow in retinal rod phototransduction. <b>1986</b> , 4, S11-S34	4
1978	Design of an indicator of intracellular free Na <sup>+</sup> concentration using <sup>19</sup> F-NMR. <b>1986</b> , 889, 72-83	44
1977	Visual transduction in vertebrate rods and cones: a tale of two transmitters, calcium and cyclic GMP. <b>1986</b> , 26, 1613-43	155
1976	Effects of storage and 37 degrees C-incubation with fresh plasma on platelet calcium distribution, mobilization, influx and aggregability. <b>1986</b> , 42, 557-66	8
1975	Measurement of electrically-induced Ca <sup>2+</sup> transients in Quin2-loaded cardiac myocytes. <b>1986</b> , 18, 541-5	18
1974	StimulusResponse Coupling Mechanisms. <b>1986</b> , 1-68	14
1973	Passive permeability of human red blood cells to calcium. <b>1986</b> , 250, C26-31	28
1972	Use of intracellular calcium and membrane potential fluorescent indicators in neuroendocrine cells. <b>1986</b> , 124, 116-35	32
1971	Monitoring of intracellular Ca <sup>2+</sup> elevation in a single neural cell using a fluorescence microscope/video-camera system. <b>1986</b> , 41, 345-51	24
1970	Na <sup>+</sup> /Ca <sup>2+</sup> exchange in coated microvesicles. <i>Biochemical Journal</i> , <b>1986</b> , 233, 643-8	3.8 3
1969	Gaining access to the cytosol: the technique and some applications of electroporation. <i>Biochemical Journal</i> , <b>1986</b> , 234, 497-506	3.8 270
1968	Buffer capacity of intracellular Ca <sup>2+</sup> indicators. <i>Biochemical Journal</i> , <b>1986</b> , 240, 310-1	3.8 14
1967	Intracellular calcium homeostasis. <b>1986</b> , 42, 353-8	57
1966	Role of calcium in regulating the cyclic GMP cascade of phototransduction in retinal rods. <b>1986</b> , 83, 7109-13	131
1965	A calcium-activated sodium conductance produces a long-duration action potential in the egg of a nemertean worm. <i>Journal of Physiology</i> , <b>1986</b> , 381, 263-78	3.9 15
1964	Proceedings of the Physiological Society, 25-26 March 1986, University College London/Middlesex Meeting: Demonstrations. <i>Journal of Physiology</i> , <b>1986</b> , 377, 1-16	3.9
1963	Effects of Ca <sup>2+</sup> on ethanolaminephosphotransferase and cholinephosphotransferase in rabbit platelets. <b>1986</b> , 100, 485-91	11



1962	Properties of the metallochromic dyes Arsenazo III, Antipyrylazo III and Azo1 in frog skeletal muscle fibres at rest. <i>Journal of Physiology</i> , <b>1986</b> , 377, 89-141	3.9	57
1961	Ca <sup>2+</sup> -translocation activities of phosphatidylinositol, diacylglycerol and phosphatidic acid inferred by quin-2 in artificial membrane systems. <b>1986</b> , 39, 237-49		11
1960	A comparison of the abilities of CO <sub>2</sub> /HCO <sub>3</sub> <sup>-</sup> , protonophores and changes in solution pH to release Ca <sup>2+</sup> from the SR of barnacle myofibrillar bundles. <b>1986</b> , 406, 315-22		9
1959	Cellular mechanism of hormone action in the kidney: messenger function of calcium and cyclic AMP. <b>1986</b> , 29, 90-7		26
1958	Measurement of the intracellular free calcium concentration in salamander rods. <b>1986</b> , 322, 261-3		173
1957	Ionic basis of membrane potential in outer hair cells of guinea pig cochlea. <b>1986</b> , 322, 368-71		169
1956	Ion channels in human neutrophils activated by a rise in free cytosolic calcium concentration. <b>1986</b> , 324, 369-72		474
1955	Problems with the application of quin-2-AM to measuring cytoplasmic free calcium in plant cells. <b>1986</b> , 9, 157-161		37
1954	Non-invasive technique for obtaining fluorescence excitation and emission spectra in vivo. <b>1986</b> , 44, 679-87		184
1953	Calcium transport in pancreatic beta-cells: implications for glucose regulation of insulin release. <b>1986</b> , 2, 215-41		46
1952	Spectrophotometric detection of monovalent cation flux in cells: fluorescence microscope measurement of acetylcholine receptor-mediated ion flux in PC-12 cells. <b>1986</b> , 157, 353-9		7
1951	Laser Microfluorometer of Intracellular Free Calcium Concentration in a Single Living Cell. <b>1986</b> , 25, L937-L939		2
1950	The removal of myoplasmic free calcium following calcium release in frog skeletal muscle. <i>Journal of Physiology</i> , <b>1986</b> , 372, 261-92	3.9	95
1949	Incorporation of calcium buffers into salamander retinal rods: a rejection of the calcium hypothesis of phototransduction. <i>Journal of Physiology</i> , <b>1986</b> , 372, 315-49	3.9	115
1948	Regulation of cortical vesicle exocytosis in sea urchin eggs by inositol 1,4,5-trisphosphate and GTP-binding protein. <b>1986</b> , 102, 70-6		189
1947	Maximal Ca <sup>2+</sup> -activated force elicited by tetanization of ferret papillary muscle and whole heart: mechanism and characteristics of steady contractile activation in intact myocardium. <b>1986</b> , 59, 262-9		52
1946	The part played by inositol trisphosphate and calcium in the propagation of the fertilization wave in sea urchin eggs. <b>1986</b> , 103, 2333-42		224
1945	Excitation and adaptation of Limulus ventral photoreceptors by inositol 1,4,5 triphosphate result from a rise in intracellular calcium. <b>1986</b> , 88, 127-42		136

1944	Variation of membrane properties in hair cells isolated from the turtle cochlea. <i>Journal of Physiology</i> , <b>1987</b> , 385, 207-42	3.9	238
1943	Depolarization without calcium can release gamma-aminobutyric acid from a retinal neuron. <b>1987</b> , 238, 350-5		339
1942	Formation of the apical pole of epithelial (Madin-Darby canine kidney) cells: polarity of an apical protein is independent of tight junctions while segregation of a basolateral marker requires cell-cell interactions. <b>1987</b> , 104, 905-16		196
1941	Ability of the Ca <sup>2+</sup> -selective microelectrodes to measure fast and local Ca <sup>2+</sup> transients in nerve cells. <b>1987</b> , 65, 904-14		3
1940	Properties of two calcium-activated hyperpolarizations in rat hippocampal neurones. <i>Journal of Physiology</i> , <b>1987</b> , 389, 187-203	3.9	453
1939	Thyrotropin-releasing hormone stimulates a calcium-activated potassium current in a rat anterior pituitary cell line. <i>Journal of Physiology</i> , <b>1987</b> , 385, 611-25	3.9	40
1938	Identification of sodium-calcium exchange current in single ventricular cells of guinea-pig. <i>Journal of Physiology</i> , <b>1987</b> , 384, 199-222	3.9	502
1937	Proceedings of the Physiological Society, 19-20 December 1986, Leeds Meeting: Communications. <i>Journal of Physiology</i> , <b>1987</b> , 386, 16-75	3.9	
1936	Fluorescence and bioluminescence measurement of cytoplasmic free calcium. <i>Biochemical Journal</i> , <b>1987</b> , 248, 313-28	3.8	475
1935	Intracellular calcium: friend or foe?. <b>1987</b> , 72, 1-10		33
1934	Relation between cytosolic free Ca <sup>2+</sup> concentration and the control of pyruvate dehydrogenase in isolated cardiac myocytes. <i>Biochemical Journal</i> , <b>1987</b> , 241, 145-51	3.8	81
1933	Measurement of calcium release from sarcoplasmic reticulum of skeletal muscle: effect of calcium and inositol 1,4,5-trisphosphate. <b>1987</b> , 141, 3-18		2
1932	Biochemical changes taking place in mitogen-treated lymphocytes. <b>1987</b> , 150, 29-83		5
1931	Activation of a potassium current by rapid photochemically generated step increases of intracellular calcium in rat sympathetic neurons. <b>1987</b> , 84, 3496-500		71
1930	Voltage-activated calcium channels that must be phosphorylated to respond to membrane depolarization. <b>1987</b> , 84, 2518-22		328
1929	Intracellular free calcium concentration measured with <sup>19</sup> F NMR spectroscopy in intact ferret hearts. <b>1987</b> , 84, 6005-9		192
1928	Hydrocortisone inhibits antigen-induced rise in intracellular free calcium concentration and abolishes leukotriene C4 production in leukemic basophils. <b>1987</b> , 34, 29-40		16
1927	Elevation in cytosolic free calcium concentration early in myocardial ischemia in perfused rat heart. <b>1987</b> , 60, 700-7		441

1926	The possible pitfalls of the measurement of intracellular calcium concentration of lymphocytes with the fluorescent indicator quin2. <b>1987</b> , 174, 380-94		7
1925	The effect of temperature and ionic strength on the apparent Ca-affinity of EGTA and the analogous Ca-chelators BAPTA and dibromo-BAPTA. <b>1987</b> , 925, 133-43		190
1924	Intracellular calcium homeostasis. <b>1987</b> , 56, 395-433		1949
1923	Intracellular injection of a Ca <sup>2+</sup> chelator inhibits spike repolarization in hippocampal neurons. <b>1987</b> , 435, 387-92		82
1922	Calcium-activated membrane depolarization via modulation of chloride efflux from parietal cells during gastrin stimulation. <i>FEBS Letters</i> , <b>1987</b> , 222, 149-53	3.8	12
1921	Internal perfusion of guinea-pig hepatocytes with buffered Ca <sup>2+</sup> or inositol 1,4,5-trisphosphate mimics noradrenaline activation of K <sup>+</sup> and Cl <sup>-</sup> conductances. <i>FEBS Letters</i> , <b>1987</b> , 217, 247-52	3.8	56
1920	Effect of DFP on loading of fura 2/AM and quin 2/AM into single smooth muscle cells prepared from guinea pig taenia coli. <i>FEBS Letters</i> , <b>1987</b> , 220, 89-92	3.8	4
1919	Permeabilization of thymocytes by photon activation of erythrosin. <i>FEBS Letters</i> , <b>1987</b> , 213, 401-5	3.8	6
1918	Hydroperoxide-induced damage to alveolar macrophage function and membrane integrity: alterations in intracellular-free Ca <sup>2+</sup> and membrane potential. <b>1987</b> , 259, 457-65		37
1917	Proton concentration jumps and generation of transmembrane pH-gradients by photolysis of 4-formyl-6-methoxy-3-nitrophenoxyacetic acid. <b>1987</b> , 905, 409-16		25
1916	Na <sup>+</sup> /Ca <sup>2+</sup> exchange in cardiac myocytes. Effect of ouabain on voltage dependence. <b>1987</b> , 51, 169-76		23
1915	The effect of calcium channel blockers on blood platelet function, especially calcium uptake. <b>1987</b> , 923, 401-12		25
1914	Quantitation of molecular and cellular probes in populations of single cells using fluorescence. <b>1987</b> , 1, 121-36		7
1913	Intracellular calcium recordings from isolated cells of the mammalian central nervous system. <b>1987</b> , 65, 926-33		2
1912	Divalent cation binding to the high- and low-affinity sites on G-actin. <i>Biochemistry</i> , <b>1987</b> , 26, 6545-52	3.2	45
1911	Patch-clamp study of the calcium-dependent chloride current in AtT-20 pituitary cells. <b>1987</b> , 58, 1431-51		51
1910	Calcium signals recorded from cut frog twitch fibers containing tetramethylmurexide. <b>1987</b> , 89, 145-76		43
1909	Synthesis and characterization of <sup>19</sup> F NMR chelators for measurement of cytosolic free Ca. <b>1987</b> , 252, C441-9		48

1908	Multidimensional stopped-flow photometry monitoring initial processes of platelet activation. <b>1987</b> , 101, 1399-405		6
1907	Dependence of an adenosine-activated potassium current on a GTP-binding protein in mammalian central neurons. <b>1987</b> , 7, 3306-16		246
1906	Fluorescent measurements of intracellular free calcium in isolated toad urinary bladder epithelial cells. <b>1987</b> , 97, 53-62		25
1905	Calcium binding and fluorescence measurements of dansylaziridine-labelled troponin C in reconstituted thin filaments. <b>1987</b> , 8, 428-36		39
1904	Mechanism of signal transduction in mast cells and basophils: studies with RBL-2H3 cells. <b>1987</b> , 20, 137-45		20
1903	Intracellular calcium in mammalian brain cells: fluorescence measurements with quin2. <b>1987</b> , 65, 520-6		6
1902	Cytosolic calcium concentration in bovine growth plate chondrocytes. <b>1987</b> , 5, 122-7		5
1901	Flow cytometric analysis of murine splenic B lymphocyte cytosolic free calcium response to anti-IgM and anti-IgD. <b>1987</b> , 8, 396-404		58
1900	Motile mechanism of blue damselfish ( <i>Chrysiptera cyanea</i> ) iridophores. <b>1987</b> , 8, 85-90		38
1899	Calcium complexation with a highly calcium selective chelator: crystal structure of $\text{Ca}(\text{CaFBAPTA})\cdot\text{H}_2\text{O}$ . <b>1987</b> , 31, 113-121		24
1898	Transmembrane ion fluxes during activation of human T lymphocytes: role of $\text{Ca}^{2+}$ , $\text{Na}^+/\text{H}^+$ exchange and phospholipid turnover. <b>1987</b> , 95, 59-87		153
1897	Signal transduction in human T lymphocytes. <b>1987</b> , 95, 137-59		84
1896	Relation of acetylcholine release to $\text{Ca}^{2+}$ uptake and intraterminal $\text{Ca}^{2+}$ concentration in guinea-pig cortex synaptosomes. <i>Journal of Neurochemistry</i> , <b>1987</b> , 49, 1013-21	6	52
1895	Adrenoceptors and postreceptor mechanisms in hypertension. <b>1988</b> , 63 Suppl 1, 38-40		1
1894	Calcium: a program in BASIC for calculating the composition of solutions with specified free concentrations of calcium, magnesium and other divalent cations. <b>1988</b> , 18, 351-66		84
1893	Uptake of extracellular $\text{Ca}^{2+}$ and not recruitment from internal stores is essential for T lymphocyte proliferation. <b>1988</b> , 18, 917-22		67
1892	Effects of cations on cartilage structure: swelling of growth plate and degradation of proteoglycans induced by chelators of divalent cations. <b>1988</b> , 43, 108-21		17
1891	A novel cardiac potassium channel that is active and conductive at depolarized potentials. <b>1988</b> , 413, 127-33		105

1890	Intracellular N-methyl-D-glucamine modifies the kinetics and voltage-dependence of the calcium current in guinea pig ventricular heart cells. <b>1988</b> , 411, 235-42		21
1889	"Run-down" of the Ca current during long whole-cell recordings in guinea pig heart cells: role of phosphorylation and intracellular calcium. <b>1988</b> , 411, 353-60		194
1888	Intracellular free calcium rise triggers nuclear envelope breakdown in the sea urchin embryo. <b>1988</b> , 332, 364-6		218
1887	Translational control of InsP3-induced chromatin condensation during the early cell cycles of sea urchin embryos. <b>1988</b> , 332, 366-9		143
1886	Photoreceptor light adaptation is mediated by cytoplasmic calcium concentration. <b>1988</b> , 334, 67-9		385
1885	The role of protein surface charges in ion binding. <b>1988</b> , 335, 651-2		135
1884	Measurement of free intracellular calcium in the brain by <sup>19</sup> F-nuclear magnetic resonance spectroscopy. <i>Journal of Neurochemistry</i> , <b>1988</b> , 51, 1311-3	6	36
1883	A fluorescence stopped-flow kinetic study of the displacement of 2-[(2-bis[carboxymethyl]amino-5-methylphenoxy)methyl]-6-methoxy-8-bis[carboxymethyl]aminoquinoline (quin2) from its Ca <sup>2+</sup> , Pr <sup>3+</sup> , Tb <sup>3+</sup> , Dy <sup>3+</sup> , and Yb <sup>3+</sup> complexes by ethylenedinitrilotetraacetate (edta) in aqueous solution. <b>1988</b> , 153, 21-24		7
1882	Synthesis of chromogenic crown ethers and liquid-liquid extraction of alkaline earth metal ions. <b>1988</b> , 204, 113-125		28
1881	Ca <sup>2+</sup> transport in nerve fibers. <b>1988</b> , 947, 549-69		63
1880	Membrane receptors in the gastrointestinal tract. <b>1988</b> , 8, 199-232		19
1879	An influx of extracellular calcium is required for initiation of the human sperm acrosome reaction induced by human follicular fluid. <b>1988</b> , 20, 397-411		181
1878	Mechanism for nucleotide exchange in monomeric actin. <i>Biochemistry</i> , <b>1988</b> , 27, 3812-20	3.2	23
1877	pH-induced changes in G-actin conformation and metal affinity. <i>Biochemistry</i> , <b>1988</b> , 27, 7759-65	3.2	18
1876	Measurement of cytosolic free magnesium ion concentration by <sup>19</sup> F NMR. <i>Biochemistry</i> , <b>1988</b> , 27, 4041-8.	3.2	88
1875	Biochemical regulation of developed intraventricular systolic pressure. <b>1988</b> , 115, 876-91		15
1874	First direct observation of the water exchange across the membrane of a single-cell green alga on a cellular level. <b>1988</b> , 946, 165-72		2
1873	Calcium-dependent events at fertilization of the frog egg: injection of a calcium buffer blocks ion channel opening, exocytosis, and formation of pronuclei. <b>1988</b> , 126, 346-61		142

1872	Immunocytochemical localization of neurofilament protein subunits in the spiral ganglion of the adult rat. <b>1988</b> , 462, 167-73	40
1871	Intracellular injection of Ca <sup>2+</sup> chelator does not affect spike repolarization of cat spinal motoneurons. <b>1988</b> , 462, 174-80	15
1870	A note on the use of indo-1 in studying shear-induced platelet aggregation. <b>1988</b> , 50, 351-6	
1869	Pigment aggregation is triggered by an increase in free calcium ions within fish chromatophores. <b>1988</b> , 91, 27-32	18
1868	Requirement of NMDA receptor/channels for intracellular high-energy phosphates and the extent of intraneuronal calcium buffering in cultured mouse hippocampal neurons. <b>1988</b> , 93, 73-8	52
1867	Activation of phosphoinositide-specific PLC increase free intracellular calcium in rabbit retinal cultures. <b>1988</b> , 13, 397-403	10
1866	Role of selenium-dependent glutathione peroxidase in antioxidant defenses in rat alveolar macrophages. <b>1988</b> , 14 Suppl, 921-36	20
1865	Fluorescence measurement and photochemical manipulation of cytosolic free calcium. <b>1988</b> , 11, 419-24	200
1864	Agonists that suppress M-current elicit phosphoinositide turnover and Ca <sup>2+</sup> transients, but these events do not explain M-current suppression. <b>1988</b> , 1, 477-84	130
1863	Blockade of ion channel expression in <i>Xenopus</i> oocytes with complementary DNA probes to Na <sup>+</sup> and K <sup>+</sup> channel mRNAs. <b>1988</b> , 1, 963-71	22
1862	Transmitter release at frog end-plate loaded with a Ca <sup>2+</sup> -chelator, BAPTA: hypertonicity and erythrosin B augment the release independently of internal Ca <sup>2+</sup> . <b>1988</b> , 92, 52-7	23
1861	Improved magnetic suspension densimeter for biochemical reactions. <b>1988</b> , 59, 307-313	12
1860	Inhibition of stem elongation in cucumis seedlings by blue light requires calcium. <b>1988</b> , 86, 960-6	54
1859	Calcium current restitution in mammalian ventricular myocytes is modulated by intracellular calcium. <b>1988</b> , 63, 468-82	100
1858	Calcium-dependent inactivation of the dihydropyridine-sensitive calcium channels in GH3 cells. <b>1988</b> , 92, 531-48	71
1857	Calcium-binding lysozymes. <b>1988</b> , 369, 671-5	36
1856	Cell calcium levels of normal and cystic fibrosis nasal epithelium. <b>1988</b> , 24, 79-84	21
1855	Induction of signal transduction in human neutrophils by <i>Candida albicans</i> hyphae: the role of pertussis toxin-sensitive guanosine triphosphate-binding proteins. <b>1988</b> , 158, 1056-64	13

1854	Digitonin-permeabilized colonic cell layers. Demonstration of calcium-activated basolateral K <sup>+</sup> and Cl <sup>-</sup> conductances. <b>1988</b> , 92, 281-306		36
1853	Two ATP-activated conductances in bullfrog atrial cells. <b>1988</b> , 91, 1-27		107
1852	Baseline and activated platelet cytoplasmic ionized calcium in acute ischemic stroke. Effect of aspirin. <b>1988</b> , 19, 1234-8		21
1851	External and internal actions in the response of salamander retinal rods to altered external calcium concentration. <i>Journal of Physiology</i> , <b>1988</b> , 403, 473-94	3.9	35
1850	Site and mechanism of activation of proton-induced sodium current in chick dorsal root ganglion neurones. <i>Journal of Physiology</i> , <b>1988</b> , 400, 159-87	3.9	83
1849	Changes in the calcium current of rat heart ventricular myocytes during development. <i>Journal of Physiology</i> , <b>1988</b> , 406, 115-46	3.9	139
1848	Incorporation of analogues of GTP and GDP into rod photoreceptors isolated from the tiger salamander. <i>Journal of Physiology</i> , <b>1988</b> , 407, 463-87	3.9	25
1847	GABAA-receptor function in hippocampal cells is maintained by phosphorylation factors. <b>1988</b> , 241, 339-41		257
1846	The roles of calcium and phosphoinositides in the mechanisms of alpha 1-adrenergic and other agonists. <b>1988</b> , 111, 117-224		34
1845	Fura-2 calcium transients in frog skeletal muscle fibres. <i>Journal of Physiology</i> , <b>1988</b> , 403, 151-92	3.9	230
1844	The measurement of ionised calcium in blood plasma. <b>1988</b> , 25 ( Pt 5), 447-65		22
1843	Calcium-independent increase of transmitter release at frog end-plate by trinitrobenzene sulphonic acid. <i>Journal of Physiology</i> , <b>1988</b> , 403, 135-49	3.9	26
1842	Properties and calcium-dependent inactivation of calcium currents in cultured mouse pancreatic B-cells. <i>Journal of Physiology</i> , <b>1988</b> , 404, 731-47	3.9	152
1841	Design and properties of a fluorescent indicator of intracellular free Na <sup>+</sup> concentration. <i>Biochemical Journal</i> , <b>1988</b> , 250, 227-32	3.8	36
1840	The biphasic stimulation of insulin secretion by bombesin involves both cytosolic free calcium and protein kinase C. <i>Biochemical Journal</i> , <b>1988</b> , 253, 193-202	3.8	39
1839	Chapter 2 Cortical Exocytosis in the Sea Urchin Egg. <b>1988</b> , 45-85		4
1838	NMR Spectroscopy in Living Systems. <b>1988</b> , 20, 1-60		24
1837	Ca <sup>2+</sup> transient, Mg <sup>2+</sup> , and pH measurements in the cardiac cycle by <sup>19</sup> F NMR. <b>1988</b> , 85, 9017-21		74

1836	Three serotonin responses in cultured mouse hippocampal and striatal neurons. <b>1988</b> , 8, 1273-85	98
1835	Presynaptic long-term facilitation at the crayfish neuromuscular junction: voltage-dependent and ion-dependent phases. <b>1988</b> , 8, 4667-74	40
1834	The Origins of Modern Fluorescence Microscopy and Fluorescent Probes. <b>1989</b> , 3-50	22
1833	A fluorescent indicator for measuring cytosolic free magnesium. <b>1989</b> , 256, C540-8	438
1832	Intracellular Ca requirements for stimulus-secretion coupling in parietal cell. <b>1989</b> , 256, C241-51	60
1831	Effects of muscarinic, alpha-adrenergic, and substance P agonists and ionomycin on ion transport mechanisms in the rat parotid acinar cell. The dependence of ion transport on intracellular calcium. <b>1989</b> , 93, 285-319	81
1830	Role of calcium in mediating action of carbachol in T84 cells. <b>1989</b> , 257, C976-85	21
1829	Elevated cytosolic calcium in the growth cone inhibits neurite elongation in neuroblastoma cells: correlation of behavioral states with cytosolic calcium concentration. <b>1989</b> , 9, 4007-20	56
1828	Physiological localization of an agonist-sensitive pool of Ca <sup>2+</sup> in parotid acinar cells. <b>1989</b> , 86, 167-71	96
1827	[Ca <sup>2+</sup> ] <sub>i</sub> and contraction of ear artery in response to rapid stimulation by NE: measurements with quin2 and fura-2. <b>1989</b> , 257, H649-57	2
1826	Calcium signals recorded from two new purpurate indicators inside frog cut twitch fibers. <b>1989</b> , 94, 597-631	44
1825	Mechanism of inhibition of polypeptide chain initiation in calcium-depleted Ehrlich ascites tumor cells. <b>1989</b> , 108, 2107-15	27
1824	Calcium dependence of the activation and inactivation kinetics of the light-activated phosphodiesterase of retinal rods. <b>1989</b> , 93, 1091-108	35
1823	Sodium-calcium exchange current. Dependence on internal Ca and Na and competitive binding of external Na and Ca. <b>1989</b> , 93, 1129-45	202
1822	A plasmatic factor may cause platelet activation in acute ischemic stroke. <b>1989</b> , 65, 1679-87	9
1821	On the role of sodium ions in the regulation of the inward-rectifying potassium conductance in cat ventricular myocytes. <b>1989</b> , 94, 329-48	32
1820	Activation of salivary secretion: coupling of cell volume and [Ca <sup>2+</sup> ] <sub>i</sub> in single cells. <b>1989</b> , 244, 1582-5	207
1819	Quantitation of bovine sperm cytoplasmic calcium with Quin-2 and Fura-2: evidence that external calcium does not have direct access to the sperm cytoplasm. <i>Cell Calcium</i> , <b>1989</b> , 10, 241-53	4 15



1818	On the dissociation constants of BAPTA-type calcium buffers. <i>Cell Calcium</i> , <b>1989</b> , 10, 491-8	4	128
1817	Differential lymphocyte growth-modifying effects of oxidants: changes in cytosolic Ca <sup>2+</sup> . <b>1989</b> , 100, 485-97		21
1816	Expression of a rapid, low-voltage threshold K current in insulin-secreting cells is dependent on intracellular calcium buffering. <b>1989</b> , 112, 213-22		34
1815	Light-induced stop response in <i>Chlamydomonas reinhardtii</i> : Occurrence and adaptation phenomena. <b>1989</b> , 14, 501-515		43
1814	Extracellular but not intracellular calcium mobilization is required for Epstein-Barr virus-containing supernatant-induced B cell activation. <b>1989</b> , 19, 1867-71		7
1813	Cholera toxin modulates the T cell antigen receptor/CD3 complex but not the CD2 molecule and inhibits signaling via both receptor structures in the human T cell lymphoma Jurkat. <b>1989</b> , 19, 2387-90		15
1812	Ca <sup>2+</sup> binding cyclic octapeptides having an alternating Sar and a hydrophobic amino acid in the sequence. <b>1989</b> , 28, 1235-46		8
1811	Ca <sup>2+</sup> transport through lipid membrane by diastereomer cyclic octapeptides. <b>1989</b> , 28, 1247-57		5
1810	Photoproteins as indicators of intracellular free Ca <sup>2+</sup> . <b>1989</b> , 4, 463-74		9
1809	Calcium sensitivity and energetics of contraction in skinned smooth muscle of the guinea pig taenia coli at altered pH. <b>1989</b> , 413, 476-81		23
1808	Calcium bridges are not load-bearing cell-wall bonds in <i>Avena</i> coleoptiles. <b>1989</b> , 178, 92-5		19
1807	Yeast flocculation: Calcium specificity. <b>1989</b> , 5, 487-496		126
1806	Allosteric activation of brain mitochondrial Ca <sup>2+</sup> uptake by spermine and by Ca <sup>2+</sup> : developmental changes. <i>Journal of Neurochemistry</i> , <b>1989</b> , 53, 1173-81	6	24
1805	GABAA responses in hippocampal neurons are potentiated by glutamate. <b>1989</b> , 337, 170-3		72
1804	Cytosolic calcium regulates ion channels in the plasma membrane of <i>Vicia faba</i> guard cells. <b>1989</b> , 338, 427-430		543
1803	Augmentation of cardiac calcium current by flash photolysis of intracellular caged-Ca <sup>2+</sup> molecules. <b>1989</b> , 341, 65-8		103
1802	Intracellular Calcium and Control of Burst Generation in Neurons of Guinea-Pig Neocortex in Vitro. <b>1989</b> , 1, 374-381		67
1801	Differential effects of Quin-2 and Quin 2-AM on ciliary responses of <i>Paramecium caudatum</i> at moderate calcium levels. <b>1989</b> , 25, 136-44		1

1800	Long-term potentiation of hippocampal mossy fiber synapses is blocked by postsynaptic injection of calcium chelators. <b>1989</b> , 3, 583-8	142
1799	Both augmentation and potentiation occur independently of internal Ca <sup>2+</sup> at the frog neuromuscular junction. <b>1989</b> , 99, 147-52	20
1798	Pharmacologic protection of perfused rat heart against global ischemia. <b>1989</b> , 38, 151-6	7
1797	Effect of protein kinase C activation on agonist-mediated phosphoinositide metabolism in rabbit retinal cells. <b>1989</b> , 14, 423-32	6
1796	Changes in cytosolic calcium monitored by inward currents during action potentials in guinea-pig ventricular cells. <b>1989</b> , 238, 171-88	15
1795	Delayed activation of large-conductance Ca <sup>2+</sup> -activated K channels in hippocampal neurons of the rat. <b>1989</b> , 56, 207-12	44
1794	Loading of fura-2/AM with an aid of DFP on single smooth muscle cells prepared from guinea pig taenia coli. <b>1989</b> , 21, 1-12	2
1793	The effect of substance P and other tachykinins on inositol phospholipid hydrolysis in rabbit retina, superior colliculus and retinal cultures. <b>1989</b> , 29, 757-64	7
1792	Cytoplasmic free calcium concentration in dark-adapted retinal rod outer segments. <b>1989</b> , 29, 939-48	75
1791	Calcium Buffer Injections Arrest Fuoid Egg Development by Suppressing Calcium Gradients. <b>1989</b> , 176, 9-13	5
1790	Fluorescent indicators of ion concentrations. <b>1989</b> , 30, 127-56	306
1789	The oxidation of the calcium probe quin2 and its analogs by prostaglandin H synthase. <b>1989</b> , 271, 64-71	12
1788	Calcium chelators induce association with the detergent-insoluble cytoskeleton and functional inactivation of the transferrin receptor in reticulocytes. <b>1989</b> , 981, 121-9	8
1787	Role of Ca <sup>2+</sup> in H <sup>+</sup> transport by rabbit gastric glands studied with A23187 and BAPTA, an incorporated Ca <sup>2+</sup> chelator. <b>1989</b> , 983, 82-90	31
1786	Enhanced release of prostacyclin from quin 2-loaded endothelial cells. <b>1989</b> , 163, 345-51	6
1785	Calcium regulates the rate of rhodopsin disactivation and the primary amplification step in visual transduction. <i>FEBS Letters</i> , <b>1989</b> , 242, 249-54	3.8 58
1784	Calcium-dependent dynamic changes in the subcellular distribution of calmodulin in frog spinal cells. <b>1989</b> , 487, 196-9	2
1783	Changes in intracellular calcium during neuron activity. <b>1989</b> , 51, 491-506	53

1782	Calcium ion binding between lipid bilayers: the four-component system of phosphatidylserine, phosphatidylcholine, calcium chloride, and water. <i>Biochemistry</i> , <b>1989</b> , 28, 1270-8	3.2	69
1781	Intracellular calcium and cell function. <b>1989</b> , 9, 347-76		26
1780	Measurement of cytosolic free Ca <sup>2+</sup> with quin2. <b>1989</b> , 172, 230-62		373
1779	Calcium buffer injections block furoid egg development by facilitating calcium diffusion. <b>1989</b> , 86, 6607-11		151
1778	Ca <sup>2+</sup> -activated K <sup>+</sup> channels in human B lymphocytes and rat thymocytes. <i>Journal of Physiology</i> , <b>1989</b> , 415, 69-83	3.9	72
1777	Measurement of reversal potential of Na <sup>+</sup> -Ca <sup>2+</sup> exchange current in single guinea-pig ventricular cells. <i>Journal of Physiology</i> , <b>1989</b> , 410, 227-49	3.9	115
1776	Voltage-dependent and calcium-dependent inactivation of calcium channel current in identified snail neurones. <i>Journal of Physiology</i> , <b>1989</b> , 412, 197-220	3.9	84
1775	Proceedings of the Physiological Society, 21-22 July 1989, Cambridge Meeting: Poster Communications. <i>Journal of Physiology</i> , <b>1989</b> , 418, 146-204	3.9	1
1774	The properties of calcium-activated potassium ion channels in guinea-pig isolated hepatocytes. <i>Journal of Physiology</i> , <b>1989</b> , 409, 285-95	3.9	81
1773	Activation and adaptation of transducer currents in turtle hair cells. <i>Journal of Physiology</i> , <b>1989</b> , 419, 405-34	3.9	237
1772	Cytoplasmic calcium as the messenger for light adaptation in salamander rods. <i>Journal of Physiology</i> , <b>1989</b> , 416, 215-43	3.9	132
1771	Regulation of N-methyl-D-aspartate receptors revealed by intracellular dialysis of murine neurones in culture. <i>Journal of Physiology</i> , <b>1989</b> , 414, 17-34	3.9	179
1770	Kinetics of phototransduction in retinal rods of the newt <i>Triturus cristatus</i> . <i>Journal of Physiology</i> , <b>1989</b> , 419, 265-95	3.9	114
1769	Effects of growth factors on cytosolic free calcium concentration and DNA synthesis in cultured rat aortic smooth muscle cells. <b>1989</b> , 157, 289-300		10
1768	Protection of dentate hilar cells from prolonged stimulation by intracellular calcium chelation. <b>1989</b> , 246, 257-60		257
1767	Intracellular calcium levels in rat anterior pituitary cells: single-cell techniques. <b>1989</b> , 168, 263-84		8
1766	Measurement of platelet cytoplasmic ionized calcium concentration with aequorin and fluorescent indicators. <b>1989</b> , 169, 386-415		17
1765	Chapter 4 Fluorescent Standards. <b>1989</b> , 30, 113-126		13

1764	Bombesin stimulation of inositol 1,4,5-trisphosphate generation and intracellular calcium release is amplified in a cell line overexpressing the N-ras proto-oncogene. <i>Biochemical Journal</i> , <b>1989</b> , 260, 813-9	3.8	19
1763	Alkalinization stimulates the purified plasma-membrane Ca <sup>2+</sup> pump by increasing its Ca <sup>2+</sup> affinity. <i>Biochemical Journal</i> , <b>1989</b> , 262, 361-4	3.8	19
1762	The measurement of Ca <sup>2+</sup> inflow across the liver cell plasma membrane by using quin2 and studies of the roles of Na <sup>+</sup> and extracellular Ca <sup>2+</sup> in the mechanism of Ca <sup>2+</sup> inflow. <i>Biochemical Journal</i> , <b>1989</b> , 264, 61-70	3.8	16
1761	The diacylglycerol analogue, 1,2-sn-dioctanoylglycerol, induces an increase in cytosolic free Ca <sup>2+</sup> and cytosolic acidification of T lymphocytes through a protein kinase C-independent process. <i>Biochemical Journal</i> , <b>1989</b> , 258, 689-98	3.8	17
1760	Correlation of blood pressure in normotensive and hypertensive individuals with platelet but not lymphocyte intracellular free calcium concentrations. <b>1989</b> , 76, 631-5		33
1759	Release and synthesis of histamine in rat basophilic leukemia (2H3) cells. <b>1989</b> , 179 Suppl 1, 45-8		
1758	Studies on 1,2-Bis(O-Aminophenoxy)Ethane-N,N,N,N?-Tetraacetic Acid Chelates of the Tripositive Lanthanide Ions. <b>1990</b> , 37, 237-245		1
1757	Molecular events mediating T cell activation. <b>1990</b> , 48, 227-360		241
1756	Stimulation-dependent facilitation of the high threshold calcium current in guinea-pig ventricular myocytes. <i>Journal of Physiology</i> , <b>1990</b> , 428, 653-71	3.9	75
1755	Ca <sup>2+</sup> release from the sarcoplasmic reticulum of barnacle myofibrillar bundles initiated by photolysis of caged Ca <sup>2+</sup> . <i>Journal of Physiology</i> , <b>1990</b> , 427, 435-53	3.9	17
1754	Measurement of intracellular calcium and pH in avian neural crest cells. <i>Journal of Physiology</i> , <b>1990</b> , 428, 531-44	3.9	11
1753	Light adaptation in cone photoreceptors of the salamander: a role for cytoplasmic calcium. <i>Journal of Physiology</i> , <b>1990</b> , 420, 447-69	3.9	94
1752	Angiotensin II stimulates protein-tyrosine phosphorylation in a calcium-dependent manner. <b>1990</b> , 10, 6290-8		116
1751	Calcium as an intracellular regulator. <b>1990</b> , 49, 51-6		17
1750	A Novel Stability Sequence of Lanthanoid Complexes with 1,2-Bis(o-aminophenoxy)ethane-N,N,N,N-tetraacetic Acid. <b>1990</b> , 19, 773-776		4
1749	Modulation of phospholipase A2 activity by the tumour promoters phorbol esters and teleocidin. <i>Biochemical Journal</i> , <b>1990</b> , 268, 169-73	3.8	9
1748	Two components of long-term potentiation induced by different patterns of afferent activation. <b>1990</b> , 347, 477-9		617
1747	Long-term potentiation of electrotonic coupling at mixed synapses. <b>1990</b> , 348, 542-5		137

1746	Guanine nucleotides and Ca <sup>2+</sup> (+)-dependent lysosomal secretion in electropermeabilised human platelets. <b>1990</b> , 189, 647-55		15
1745	Transient increases of intracellular Ca <sup>2+</sup> induced by volatile anesthetics in rat hepatocytes. <i>Cell Calcium</i> , <b>1990</b> , 11, 515-24	4	20
1744	Imaging spatial distribution of release in single muscle fibres from <i>Balanus nubilus</i> using image intensification. <i>Cell Calcium</i> , <b>1990</b> , 11, 211-20	4	2
1743	Pertussis toxin B-subunit-induced Ca <sup>2+</sup> (+)-fluxes in Jurkat human lymphoma cells: the action of long-term pre-treatment with cholera and pertussis holotoxins. <b>1990</b> , 2, 115-28		18
1742	The role of wall calcium in the extension of cell walls of soybean hypocotyls. <b>1990</b> , 182, 559-64		44
1741	Translocation of Ca <sup>2+</sup> across lipid bilayer membrane due to defects induced by teleocidin. <b>1990</b> , 268, 1052-1058		
1740	Macroscopic and single-channel studies of two Ca <sup>2+</sup> channel types in oocytes of the ascidian <i>Ciona intestinalis</i> . <b>1990</b> , 114, 231-43		17
1739	Chloride channels in human platelets: evidence for activation by internal calcium. <b>1990</b> , 118, 69-75		22
1738	Calcium-loaded 1,2-bis(2-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid blocks cell-to-cell diffusion of carboxyfluorescein in staminal hairs of <i>Setcreasea purpurea</i> . <b>1990</b> , 182, 34-8		50
1737	Regulation of Na <sup>+</sup> /H <sup>+</sup> exchange in opossum kidney cells by parathyroid hormone, cyclic AMP and phorbol esters. <b>1990</b> , 415, 461-70		68
1736	Calcium binding and induction of conidiation in protoplasts of <i>Penicillium cyclopium</i> . <b>1990</b> , 57, 43-9		12
1735	The action of caffeine on inward barium current through voltage-dependent calcium channels in single rabbit ear artery cells. <b>1990</b> , 416, 462-6		53
1734	A new benzo-annelated cryptand and a derivative with alkali cation-sensitive fluorescence. <b>1990</b> , 31, 5193-5196		54
1733	Control of astrocyte volume by intracellular and extracellular Ca <sup>2+</sup> . <b>1990</b> , 3, 405-12		37
1732	Interrelationship between signals transduced by phytohemagglutinin and interleukin 1. <b>1990</b> , 142, 539-51		13
1731	ATP and calmodulin dependent actomyosin aggregates induced by cytochalasin D in goldfish retinal ganglion cell axons in vitro. <b>1990</b> , 21, 555-66		10
1730	Characterization of indo-1 and quin-2 as spectroscopic probes for Zn <sup>2+</sup> (+)-protein interactions. <b>1990</b> , 187, 328-36		42
1729	Quin-2 and fura-2 measure calcium differently. <b>1990</b> , 186, 28-30		18

1728	AcidBase and calcium-binding properties of the fluorescent calcium indicator indo-1. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1990</b> , 53, 397-409	4-7	9
1727	Colocalization of ion channels involved in frequency selectivity and synaptic transmission at presynaptic active zones of hair cells. <b>1990</b> , 10, 3664-84		568
1726	Mechanisms of Platelet Activation and Inhibition. <b>1990</b> , 4, 1-26		36
1725	Development of <sup>19</sup> F NMR for measurement of [Ca <sup>2+</sup> ] <sub>i</sub> and [Pb <sup>2+</sup> ] <sub>i</sub> in cultured osteoblastic bone cells. <b>1990</b> , 84, 99-106		10
1724	Pb <sup>2+</sup> (+)-induced secretion from bovine chromaffin cells: fura-2 as a probe for Pb <sup>2+</sup> . <b>1990</b> , 259, C762-8		41
1723	Measurement of cytosolic calcium using <sup>19</sup> F NMR. <b>1990</b> , 84, 95-8		2
1722	Halothane-dependent release of intracellular Ca <sup>2+</sup> in blood cells in malignant hyperthermia. <b>1990</b> , 258, C495-503		17
1721	Senescence of Rice Leaves XXIV. Involvement of Calcium and Calmodulin in the Regulation of Senescence. <b>1990</b> ,		
1720	Changes in Intracellular Free Calcium Concentration in Resting Lymphocytes at the Borderline of Life. <b>1990</b> , 27, 134-145		
1719	Effects of inositol, 1,4,5-trisphosphate injections into cat spinal motoneurons. <b>1990</b> , 68, 1062-8		4
1718	Facilitatory and inhibitory transmitters modulate spontaneous transmitter release at cultured Aplysia sensorimotor synapses. <i>Journal of Physiology</i> , <b>1990</b> , 421, 203-22	3-9	97
1717	Potassium currents in inner hair cells isolated from the guinea-pig cochlea. <i>Journal of Physiology</i> , <b>1990</b> , 421, 263-91	3-9	157
1716	Translocation mechanism of Na-Ca exchange in single cardiac cells of guinea pig. <b>1990</b> , 96, 777-88		23
1715	Effects of extracellular ATP on ion transport systems and [Ca <sup>2+</sup> ] <sub>i</sub> in rat parotid acinar cells. Comparison with the muscarinic agonist carbachol. <b>1990</b> , 95, 319-46		77
1714	Guanylate cyclase from bovine rod outer segments: solubilization, partial purification, and regulation by inorganic pyrophosphate. <i>Biochemistry</i> , <b>1990</b> , 29, 1088-94	3-2	151
1713	Zinc interactions with regulatory dimers from Escherichia coli aspartate transcarbamoylase. <i>Biochemistry</i> , <b>1990</b> , 29, 6687-98	3-2	7
1712	Thermodynamics of mixing of phosphatidylserine/phosphatidylcholine from measurements of high-affinity calcium binding. <i>Biochemistry</i> , <b>1990</b> , 29, 8291-7	3-2	20
1711	Phosphatidylinositol-4,5-bisphosphate phospholipase C in bovine rod outer segments. <i>Biochemistry</i> , <b>1990</b> , 29, 5447-52	3-2	32

1710	Measurement of Cytosolic Calcium Using $^{19}\text{F}$ NMR. <b>1990</b> , 84, 95	3
1709	Development of $^{19}\text{F}$ NMR for Measurement of $[\text{Ca}^{2+}]_i$ and $[\text{Pb}^{2+}]_i$ in Cultured Osteoblastic Bone Cells. <b>1990</b> , 84, 99	14
1708	The effect of agonist concentration, membrane voltage and calcium on N-methyl-D-aspartate receptor desensitization. <b>1990</b> , 39, 787-97	73
1707	Substance P and related tachykinins induce receptor-mediated hydrolysis of polyphosphoinositides in the rat anterior pituitary. <b>1990</b> , 69, 69-78	22
1706	Measurement of intracellular magnesium in a vascular smooth muscle cell line using a fluorescent probe. <b>1990</b> , 1035, 378-80	18
1705	Calcium regulation of the first cell cycle of the sea urchin embryo. <b>1990</b> , 582, 199-206	8
1704	The role of calcium and magnesium in the development of atherosclerosis. Experimental and clinical evidence. <b>1990</b> , 598, 444-57	38
1703	Cyclic GMP and calcium: the internal messengers of excitation and adaptation in vertebrate photoreceptors. <b>1990</b> , 30, 1923-48	302
1702	Chapter 3 Agonist-stimulated inositol phospholipid hydrolysis in the mammalian retina. <b>1990</b> , 9, 101-134	9
1701	Effect of lead on parathyroid hormone-induced responses in rat osteoblastic osteosarcoma cells (ROS 17/2.8) using $^{19}\text{F}$ -NMR. <b>1990</b> , 1054, 250-5	23
1700	Extracellular ATP activates $\text{Ca}^{2+}$ -dependent $\text{K}^{+}$ conductance via $\text{Ca}^{2+}$ influx in mouse macrophages. <b>1990</b> , 97, 417-21	21
1699	Inactivation of a slow $\text{Ca}^{2+}$ current in CA1 neurones of the adult rat hippocampal slice. <b>1990</b> , 111, 102-8	7
1698	Stimulatory and inhibitory actions of excitatory amino acids on inositol phospholipid metabolism in rabbit retina. Evidence for a specific quisqualate receptor subtype associated with neurones. <b>1990</b> , 50, 397-405	32
1697	Potassium currents activated in hippocampal neurons by serotonin are mediated by a change in intracellular calcium concentrations. <b>1990</b> , 181, 299-301	11
1696	Inhibitory effects of loading with the calcium-chelator 1,2-bis(o-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid (BAPTA) on amylase release and cellular ATP level in rat parotid cells. <b>1990</b> , 39, 1775-9	15
1695	Quin2 protects against neuronal cell death due to $\text{Ca}^{2+}$ overload. <b>1990</b> , 528, 48-54	38
1694	Cytosolic free magnesium, ATP and blebbing during chemical hypoxia in cultured rat hepatocytes. <b>1990</b> , 170, 477-83	64
1693	Flow cytometric measurement of cytoplasmic free calcium in human peripheral blood T lymphocytes with fluo-3, a new fluorescent calcium indicator. <b>1990</b> , 127, 197-205	159

1692 POSTER COMMUNICATIONS. **1990**, 99, 157P-300P

1691 Calcium and the mechanism of light adaptation in vertebrate photoreceptors. **1990**, 13, 378-84 108

1690 The relationship of KCl- and prostaglandin F2 alpha-mediated increases in tension of the porcine coronary artery with changes in intracellular Ca<sup>2+</sup> measured with fura-2. **1991**, 104, 373-8 10

1689 Tip-link integrity and mechanical transduction in vertebrate hair cells. **1991**, 7, 985-94 398

1688 Dual role for calcium in the control of spike duration in rat supraoptic neuroendocrine cells. **1991**, 133, 271-4 24

1687 Renal lesions in hypocalcemic conditions. Phenotypic manifestations of genetical background and renal expressions. **1991**, 41, 10-20 4

1686 Effects of intra-axonal injection of Ca<sup>2+</sup> buffers on evoked release and on facilitation in the crayfish neuromuscular junction. **1991**, 125, 215-8 44

1685 Cholera toxin-mediated inhibition of signalling in Jurkat cells is followed by, but not due to a loss of T cell receptor complex. **1991**, 182, 266-76 5

1684 Calcium-activated proteolysis of intracellular domains in the cell adhesion molecules NCAM and N-cadherin. **1991**, 11, 11-6 46

1683 Modulation of M-current by intracellular Ca<sup>2+</sup>. **1991**, 6, 533-45 88

1682 Separate mechanisms of long-term potentiation in two input systems to CA3 pyramidal neurons of rat hippocampal slices as revealed by the whole-cell patch-clamp technique. **1991**, 12, 393-402 63

1681 Activation of locus coeruleus (LC) neurones by cholera toxin: mediation by cAMP-dependent protein kinase. **1991**, 134, 113-7 17

1680 Effects of Calcium Buffering on the Synthesis of the 26-kDa Heat-Shock Protein Family. **1991**, 127, 261 11

1679 Calcium-dependent transient potassium outward current in the marine ciliate *Euplotes vannus*. **1991**, 1062, 193-8 7

1678 Effects of androgen on intracellular calcium of LNCaP cells. **1991**, 179, 90-6 64

1677 Postsynaptic and presynaptic effects of the calcium chelator BAPTA on synaptic transmission in rat hippocampal dentate granule neurons. **1991**, 555, 319-25 42

1676 Halothane enhances tonic neuronal inhibition by elevating intracellular calcium. **1991**, 538, 319-23 107

1675 Translocation mechanism of cardiac Na-Ca exchange. **1991**, 639, 48-60 26



1674	The hair cell as a presynaptic terminal. <b>1991</b> , 635, 221-33		31
1673	Frequency facilitation is not caused by residual ionized calcium at the frog neuromuscular junction. <b>1991</b> , 635, 492-4		14
1672	Voltage-gated and calcium-gated calcium release during depolarization of skeletal muscle fibers. <b>1991</b> , 60, 867-73		93
1671	Regulation of bradykinin- and ATP-activated Ca(2+)-permeable channels in rat pheochromocytoma (PC12) cells. <b>1991</b> , 11, 3984-90		50
1670	Membrane resealing in cultured rat septal neurons after neurite transection: evidence for enhancement by Ca(2+)-triggered protease activity and cytoskeletal disassembly. <b>1991</b> , 11, 3257-67		136
1669	Calcium-activated chloride conductance in frog olfactory cilia. <b>1991</b> , 11, 3624-9		245
1668	Alien intracellular calcium chelators attenuate neurotransmitter release at the squid giant synapse. <b>1991</b> , 11, 1496-507		547
1667	References. <b>1991</b> , 21, 409-439		
1666	Intracellular Ca <sup>2+</sup> buffers disrupt muscarinic suppression of Ca <sup>2+</sup> current and M current in rat sympathetic neurons. <b>1991</b> , 88, 652-6		142
1665	Proceedings of the Physiological Society, 25-26 March 1991, University College of London Meeting: Communications. <i>Journal of Physiology</i> , <b>1991</b> , 438, 145-204	3.9	
1664	Effect of external Cd <sup>2+</sup> and other divalent cations on carbachol-activated non-selective cation channels in guinea-pig ileum. <i>Journal of Physiology</i> , <b>1991</b> , 442, 447-63	3.9	54
1663	Heat production in chemically skinned smooth muscle of guinea-pig taenia coli. <i>Journal of Physiology</i> , <b>1991</b> , 440, 385-402	3.9	16
1662	Cytosolic Ca <sup>2+</sup> -Concentrations and Distributions in Rhizoids of <i>Chara fragilis</i> Desv. Determined by Ratio Analysis of the Fluorescent Probe Indo-1. <b>1991</b> , 104, 222-228		10
1661	Incorporation of chelator into guinea-pig rods shows that calcium mediates mammalian photoreceptor light adaptation. <i>Journal of Physiology</i> , <b>1991</b> , 436, 93-105	3.9	46
1660	Dopamine D2 receptor activation depolarizes rat supraoptic neurones in hypothalamic explants. <i>Journal of Physiology</i> , <b>1991</b> , 443, 405-19	3.9	52
1659	Cytosolic pH regulates maxi K <sup>+</sup> channels in <i>Necturus</i> gall-bladder epithelial cells. <i>Journal of Physiology</i> , <b>1991</b> , 434, 577-90	3.9	35
1658	Proceedings of the Physiological Society, 25-26 March 1991, University College of London Meeting: Communications. <i>Journal of Physiology</i> , <b>1991</b> , 438, 145-204	3.9	
1657	Investigation of the role of calpain as a stimulus-response mediator in human platelets using new synthetic inhibitors. <i>Biochemical Journal</i> , <b>1991</b> , 274 ( Pt 2), 497-502	3.8	32

1656	Determination of calcium ions tightly bound to proteins. <b>1991</b> , 585, 173-6	5
1655	Early increase in intracellular calcium during photodynamic permeabilization. <b>1991</b> , 11, 307-17	25
1654	Rhodopsin-regulated calcium currents in Chlamydomonas. <b>1991</b> , 351, 489-491	211
1653	A Drosophila mutant defective in extracellular calcium-dependent photoreceptor deactivation and rapid desensitization. <b>1991</b> , 354, 230-2	163
1652	The devapamil-binding site of the purified skeletal muscle receptor for organic-calcium channel blockers is modulated by micromolar and millimolar concentrations of Ca <sup>2+</sup> . <b>1991</b> , 200, 245-53	14
1651	Photophysical study of the Ca <sup>2+</sup> -chelator QUIN 2 ligand: effect of divalent and trivalent cations. <b>1991</b> , 179, 539-543	2
1650	Preparation of solutions with free calcium concentration in the nanomolar range using 1,2-bis(o-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid. <b>1991</b> , 193, 61-71	96
1649	Parathyroid hormone promotes the disassembly of cytoskeletal actin and myosin in cultured osteoblastic cells: mediation by cyclic AMP. <b>1991</b> , 45, 101-11	44
1648	Calcium sensors in sea urchin sperm flagella. <b>1991</b> , 18, 123-30	49
1647	Hepatic intracellular pH in vivo using F-quene 1 and 19F NMR spectroscopy. <b>1991</b> , 19, 386-92	12
1646	Transmembrane currents in frog olfactory cilia. <b>1991</b> , 120, 75-81	43
1645	Cytoplasmic alkalinization increases high-threshold calcium current in chick dorsal root ganglion neurones. <b>1991</b> , 419, 138-43	43
1644	Calbindin-D28K (CaBP) levels and calcium currents in acutely dissociated epileptic neurons. <b>1991</b> , 85, 543-51	97
1643	Blockage of Na <sup>+</sup> currents through poorly selective cation channels in the apical membrane of frog skin and toad urinary bladder. <b>1991</b> , 418, 193-203	13
1642	The activation of Ca(2+)-dependent K <sup>+</sup> conductance by adrenaline in mouse peritoneal macrophages. <b>1991</b> , 419, 371-9	21
1641	Regulation of Ca <sup>2+</sup> influx during mitosis: Ca <sup>2+</sup> influx and depletion of intracellular Ca <sup>2+</sup> stores are coupled in interphase but not mitosis. <b>1991</b> , 2, 915-25	74
1640	Phorbol ester-induced actin cytoskeletal reorganization requires a heavy metal ion. <b>1991</b> , 2, 1067-79	11
1639	Second messengers: regulators of mechanically-induced tissue remodelling. <b>1991</b> , 13, 271-8	18

1638	Changes in free calcium concentrations in platelets of SHRSP and WKY: its relationship to ATP releasing potencies and platelet aggregation activities upon stimulation of several reagents. <b>1991</b> , 13, 719-33		2
1637	Reduced calcium sensitivity of dihydropyridine binding to calcium channels in spontaneously hypertensive rats. <b>1991</b> , 17, 234-41		13
1636	Intracellular pH regulates basolateral K <sup>+</sup> and Cl <sup>-</sup> conductances in colonic epithelial cells by modulating Ca <sup>2+</sup> activation. <b>1991</b> , 98, 183-96		11
1635	The role of the inositol phosphate cascade in visual excitation of invertebrate microvillar photoreceptors. <b>1991</b> , 97, 697-723		81
1634	Ca <sup>2+</sup> and activation mechanisms in skeletal muscle. <b>1991</b> , 24, 1-73		151
1633	Endogenous intracellular calcium buffering and the activation/inactivation of HVA calcium currents in rat dentate gyrus granule cells. <b>1991</b> , 98, 941-67		79
1632	Mediation by calcium of thyrotropin--releasing hormone action on the prolactin promoter via transcription factor pit-1. <b>1991</b> , 5, 1488-97		45
1631	Inactivation kinetics of calcium current of acutely dissociated CA1 pyramidal cells of the mature guinea-pig hippocampus. <i>Journal of Physiology</i> , <b>1991</b> , 437, 27-48	3.9	49
1630	Kinetic properties of the caffeine-induced transient outward current in bull-frog sympathetic neurones. <i>Journal of Physiology</i> , <b>1991</b> , 433, 341-55	3.9	7
1629	Inactivation of Ca current during the action potential in guinea-pig ventricular myocytes. <b>1992</b> , 77, 153-64		9
1628	Ca(2+)-dependent and -independent components of transmitter release at the frog neuromuscular junction. <i>Journal of Physiology</i> , <b>1992</b> , 455, 271-89	3.9	30
1627	Cytoplasmic Free Ca <sup>2+</sup> in the Marine Alga <i>Acetabularia</i> : Measurement with Ca <sup>2+</sup> -selective Microelectrodes and Kinetic Analysis. <b>1992</b> , 43, 875-885		8
1626	Thin-section ratiometric Ca <sup>2+</sup> images obtained by optical sectioning of fura-2 loaded mast cells. <b>1992</b> , 116, 745-59		74
1625	Reducing inositol lipid hydrolysis, Ins(1,4,5)P <sub>3</sub> receptor availability, or Ca <sup>2+</sup> gradients lengthens the duration of the cell cycle in <i>Xenopus laevis</i> blastomeres. <b>1992</b> , 116, 147-56		70
1624	Calcium-dependent inactivation of the calcium current activated upon hyperpolarization of <i>Paramecium tetraurelia</i> . <b>1992</b> , 100, 253-68		17
1623	Regulation of cytosolic free calcium concentration by intrasynaptic mitochondria. <b>1992</b> , 3, 235-48		32
1622	Calcium signals in growth factor signal transduction. <b>1992</b> , 119, 67-121		28
1621	cAMP and Ca(2+)-mediated secretion in parotid acinar cells is associated with reversible changes in the organization of the cytoskeleton. <b>1992</b> , 116, 127-34		89

1620	Calcium-dependent increase in tyrosine kinase activity stimulated by angiotensin II. <b>1992</b> , 89, 8837-41		87
1619	Principles of Electrolyte Transport Across Plasma Membranes of Renal Tubular Cells. <b>1992</b> , 639-657		
1618	Ruthenium red delays the onset of cell death during oxidative stress of rat hepatocytes. <b>1992</b> , 102, 1030-8		33
1617	Isolation and characterization by cell density adjustment of a PC12 pheochromocytoma variant with altered Ca <sup>2+</sup> homeostasis. <b>1992</b> , 3, 203-12		3
1616	Brief dendritic calcium signals initiate long-lasting synaptic depression in cerebellar Purkinje cells. <b>1992</b> , 89, 7051-5		329
1615	A novel large-conductance Ca(2+)-activated potassium channel and current in nerve terminals of the rat neurohypophysis. <i>Journal of Physiology</i> , <b>1992</b> , 457, 47-74	3.9	46
1614	Confocal microscopic imaging of [Ca <sup>2+</sup> ] <sub>i</sub> in cultured rat hippocampal neurons following exposure to N-methyl-D-aspartate. <i>Journal of Physiology</i> , <b>1992</b> , 448, 655-76	3.9	104
1613	The Electrogenic Sodium/Potassium Pump and Passive Sodium Influx of Isolated Guinea Pig Ventricular Myocytes. <b>1992</b> , 3, 225-238		9
1612	Ca <sup>2+</sup> current in myotome cells of the lancelet ( <i>Branchiostoma lanceolatum</i> ). <i>Journal of Physiology</i> , <b>1992</b> , 450, 437-53	3.9	4
1611	A role for calcium in regulating apoptosis in rat thymocytes irradiated in vitro. <b>1992</b> , 61, 243-51		74
1610	Inactivation of the slow calcium current in twitch skeletal muscle fibres of the frog. <i>Journal of Physiology</i> , <b>1992</b> , 448, 633-53	3.9	10
1609	Hemi-gap-junction channels in solitary horizontal cells of the catfish retina. <i>Journal of Physiology</i> , <b>1992</b> , 445, 201-30	3.9	227
1608	NMDA receptor-mediated rhythmic bursting activity in rat supraoptic nucleus neurones in vitro. <i>Journal of Physiology</i> , <b>1992</b> , 458, 667-87	3.9	122
1607	Thrombin causes neurite retraction in neuronal cells through activation of cell surface receptors. <b>1992</b> , 8, 363-75		248
1606	Dissection of bradykinin-evoked responses by buffering intracellular Ca <sup>2+</sup> in neuroblastoma x glioma hybrid NG108-15 cells. <b>1992</b> , 15, 213-20		13
1605	Memantine stimulates inositol phosphates production in neurones and nullifies N-methyl-D-aspartate-induced destruction of retinal neurones. <b>1992</b> , 21, 329-36		36
1604	Agents that stimulate phosphoinositide turnover also elevate cAMP in SK-N-SH human neuroblastoma cells. <b>1992</b> , 50, 1755-9		5
1603	Abnormal Ca <sup>2+</sup> homeostasis before cell death revealed by whole cell recording of ischemic CA1 hippocampal neurons. <b>1992</b> , 49, 807-17		77

1602	Rapid kinetics of depolarization-induced changes in intrasynaptosomal calcium concentrations. <b>1992</b> , 20, 275-9		13
1601	Effects of intracellular calcium chelation on voltage-dependent and calcium-dependent currents in cat neocortical neurons. <b>1992</b> , 47, 571-8		84
1600	Submicroscopic Ca <sup>2+</sup> diffusion mediates inhibitory coupling between individual Ca <sup>2+</sup> channels. <b>1992</b> , 9, 197-207		106
1599	Localization of Ca(2+)-stores and tissue compartments with a Ca(2+)-binding capacity in the organ of Corti of the guinea-pig by electron energy-loss spectroscopy. <b>1992</b> , 166, 359-65		3
1598	The hair cell's mechano-electrical transducer channel. <b>1992</b> , 656, 1-11		20
1597	Mechanisms by which extracellular ATP and UTP stimulate the release of prostacyclin from bovine pulmonary artery endothelial cells. <b>1992</b> , 1134, 61-72		65
1596	Guanine nucleotide stimulation of norepinephrine secretion from permeabilized PC12 cells: effects of Mg <sup>2+</sup> , other nucleotide triphosphates and N-ethylmaleimide. <b>1992</b> , 1134, 285-91		4
1595	Measurement of intracellular Ca <sup>2+</sup> in young and old human erythrocytes using <sup>19</sup> F-NMR spectroscopy. <b>1992</b> , 1136, 155-60		27
1594	Postnatal development of electrogenic sodium pump activity in rat hippocampal pyramidal neurons. <b>1992</b> , 65, 101-14		53
1593	Intracellular Ca <sup>2+</sup> and N-methyl-D-aspartate-stimulated neuritogenesis in rat cerebellar granule cell cultures. <b>1992</b> , 66, 25-32		41
1592	A narrow window of intracellular calcium concentration is optimal for neurite outgrowth in rat sensory neurones. <b>1992</b> , 70, 287-90		52
1591	The photoreceptor current of the green alga <i>Chlamydomonas</i> . <b>1992</b> , 338, 39-52		66
1590	Interaction of troponin C and troponin C fragments with troponin I and the troponin I inhibitory peptide. <i>Biochemistry</i> , <b>1992</b> , 31, 3420-9	3.2	54
1589	Measurement of Intracellular Calcium with Fluorescent Calcium Indicators. <b>1992</b> , 129-174		1
1588	UV-treated lipoproteins as a model system for the study of the biological effects of lipid peroxides on cultured cells. 4. Calcium is involved in the cytotoxicity of UV-treated LDL on lymphoid cell lines. <b>1992</b> , 1123, 207-15		30
1587	Interleukin-1 beta stimulates cytosolic phospholipase A2 in rheumatoid synovial fibroblasts. <b>1992</b> , 184, 712-8		52
1586	Interaction between the calcium and cyclic AMP messenger systems in perfused rat parotid acinar cells. Possible mechanism for potentiation of amylase secretion. <b>1992</b> , 43, 1031-41		30
1585	Intracellular signal transduction in four dimensions: from molecular design to physiology. <b>1992</b> , 263, C723-8		107

1584	Muscarinic potentiation of IK in hippocampal neurons: electrophysiological characterization of the signal transduction pathway. <b>1992</b> , 12, 4510-20		32
1583	Whole cell patch clamping of ciliary epithelial cells during anisotonic swelling. <b>1992</b> , 262, C501-9		48
1582	Ionic currents of morphologically distinct peptidergic neurons in defined culture. <b>1992</b> , 67, 1301-15		20
1581	Low-threshold Ca <sup>2+</sup> channels mediate induction of long-term potentiation in kitten visual cortex. <b>1992</b> , 67, 401-10		70
1580	Regulatory pathways governing modulation of fungal gene expression by a virulence-attenuating mycovirus.. <i>EMBO Journal</i> , <b>1992</b> , 11, 4539-4548	13	45
1579	Isoproterenol enhances a calcium-independent potassium current in mouse anterior pituitary tumor cells. <b>1992</b> , 68, 117-23		1
1578	Purification and characterization of nebulin subfragments produced by 0.1 mM CaCl <sub>2</sub> . <b>1992</b> , 112, 780-5		12
1577	Presynaptic Activity of $\alpha$ -Latrotoxin: Purification and Properties. <b>1992</b> , 8, 283-297		1
1576	Regulation of expression by divalent cations of a light-inducible gene in <i>Arthrobacter photogonimus</i> . <b>1992</b> , 158, 85-92		5
1575	Basal conductance of frog olfactory cilia. <b>1992</b> , 421, 374-80		15
1574	Regulation of aplanospore germination in <i>Vaucheria</i> : Time-dependent responses to calcium modulators. <b>1992</b> , 188, 279-88		2
1573	Calcium imaging using fluorescence lifetimes and long-wavelength probes. <b>1992</b> , 2, 47-62		68
1572	Regulation of transin/stromelysin and VL30 gene expression by intracellular calcium. <b>1992</b> , 98, 125-165		1
1571	Mutations in the channel domain of a neuronal nicotinic receptor convert ion selectivity from cationic to anionic. <b>1992</b> , 359, 500-5		376
1570	External Ca <sup>2+</sup> -independent release of neurotransmitters. <i>Journal of Neurochemistry</i> , <b>1992</b> , 58, 395-4056		158
1569	Calcium independence of phosphoinositide hydrolysis-induced increase in cyclic AMP accumulation in SK-N-SH human neuroblastoma cells. <i>Journal of Neurochemistry</i> , <b>1992</b> , 58, 1754-9	6	18
1568	A quantitative study of the Ca <sup>2+</sup> /calmodulin sensitivity of adenylyl cyclase in <i>Aplysia</i> , <i>Drosophila</i> , and rat. <i>Journal of Neurochemistry</i> , <b>1992</b> , 59, 1736-44	6	75
1567	Enhancement and quenching of fluorescence of Quin-2 by metal ions. <b>1992</b> , 45, 85-92		4

1566	An intracellular medium formulary. <b>1992</b> , 44, 91-100		42
1565	Cigarette smoke-induced DNA damage in cultured human lung cells: role of hydroxyl radicals and endonuclease activation. <b>1992</b> , 81, 197-208		127
1564	Molecular fluorescent signalling with fluorospacer receptor systems: approaches to sensing and switching devices via supramolecular photophysics. <b>1992</b> , 21, 187-195		493
1563	A quantitative model of phototransduction and light adaptation in amphibian rod photoreceptors. <b>1992</b> , 4, 5-13		2
1562	Microspectrofluorometry as a tool for investigation of non-calcium interactions of Indo-1. <i>Cell Calcium</i> , <b>1992</b> , 13, 59-68	4	35
1561	Fluorescence lifetime imaging of calcium using Quin-2. <i>Cell Calcium</i> , <b>1992</b> , 13, 131-47	4	116
1560	Effect of phorbol myristate acetate on release of arachidonic acid and its metabolites in the osteoblastic MOB 3-4 cell line and its subclone, MOB 3-4-F2. <b>1992</b> , 4, 51-9		
1559	Molecular biology in living cells by means of digital optical microscopy. <b>1992</b> , 23, 239-257		16
1558	Presynaptic calcium signals during neurotransmitter release: detection with fluorescent indicators and other calcium chelators. <b>1992</b> , 86, 129-34		12
1557	The role of cytoplasmic calcium in photoreceptor light adaptation. <b>1992</b> , 86, 147-55		1
1556	Flow-injection fluorimetric determination of traces of calcium in brine. <b>1992</b> , 261, 275-279		6
1555	Fluorescence lifetime imaging. <b>1992</b> , 202, 316-30		301
1554	Bound and determined: a computer program for making buffers of defined ion concentrations. <b>1992</b> , 201, 119-26		327
1553	Investigation of noncalcium interactions of fura-2 by classical and synchronous fluorescence spectroscopy. <b>1992</b> , 204, 231-8		25
1552	Shear-induced platelet-derived growth factor gene expression in human endothelial cells is mediated by protein kinase C. <b>1992</b> , 150, 552-8		125
1551	Control of organelle transport in melanophores: regulation of Ca <sup>2+</sup> and cAMP levels. <b>1992</b> , 22, 175-84		29
1550	Synthesis and evaluation of fluorinated calcium chelators with enhanced relaxation characteristics. <b>1992</b> , 30, 723-732		2
1549	Prevention of changes in platelet cytoplasmic free calcium levels by interaction with 2-hydroxyethyl methacrylate/styrene block copolymer surfaces. <b>1993</b> , 27, 1519-25		27

1548	Simultaneous calcium-dependent delivery of neutrophil lactoferrin and reactive oxygen metabolites to erythrocyte targets: evidence supporting granule-dependent triggering of superoxide deposition. <b>1993</b> , 156, 226-34	28
1547	Defining a role for calcium in the resumption and progression of meiosis in the pig oocyte. <b>1993</b> , 265, 69-76	46
1546	A simple intrapipette salt bridge. <b>1993</b> , 46, 11-6	8
1545	Labelled polycyanoacrylate nanoparticles for human in vivo use. <b>1993</b> , 44, 1219-24	21
1544	Fluorescence lifetime-based sensing of pH, Ca <sup>2+</sup> , K <sup>+</sup> and glucose. <b>1993</b> , 11, 133-143	103
1543	Volume regulation in human fibroblasts: role of Ca <sup>2+</sup> and 5-lipoxygenase products in the activation of the Cl <sup>-</sup> efflux. <b>1993</b> , 136, 55-62	27
1542	A possible role of sarcoplasmic Ca <sup>2+</sup> release in modulating the slow Ca <sup>2+</sup> current of skeletal muscle. <b>1993</b> , 425, 54-61	20
1541	Spatial calcium buffering in saccular hair cells. <b>1993</b> , 363, 74-6	248
1540	Calcium transport across plasma membrane vesicles isolated from shoots of <i>Stellaria media</i> and <i>Arena sativa</i> . <b>1993</b> , 89, 731-740	3
1539	Calcium and calmodulin in the control of cellular behavior and motility. <b>1993</b> , 1155, 277-93	15
1538	Okadaic acid uncouples calcium entry from depletion of intracellular stores. <i>Cell Calcium</i> , <b>1993</b> , 14, 379-86	32
1537	The cyclic nucleotide-activated conductance in olfactory cilia: effects of cytoplasmic Mg <sup>2+</sup> and Ca <sup>2+</sup> . <b>1993</b> , 131, 237-43	18
1536	Measurement of free Zn <sup>2+</sup> ion concentration with the fluorescent probe mag-fura-2 (furaptra). <b>1993</b> , 27, 25-37	89
1535	Two distinct modalities of NMDA-receptor inactivation induced by calcium influx in cultured rat hippocampal neurons. <i>FEBS Letters</i> , <b>1993</b> , 332, 44-8	3.8 4
1534	GTP gamma S and phorbol ester act synergistically to stimulate both Ca(2+)-independent secretion and phospholipase D activity in permeabilized human platelets. Inhibition by BAPTA and analogues. <i>FEBS Letters</i> , <b>1993</b> , 316, 170-4	3.8 51
1533	The role of intracellular free calcium mobilization in the mechanism of action of antitumour ether lipids SRI 62-834 and ET18-OMe. <b>1993</b> , 45, 77-86	23
1532	Protein kinase C inhibitors suppress disc-sphere changes of human platelets, as assessed with the shape-change parameter. <b>1993</b> , 235, 255-65	5
1531	Enhancement of the endothelial production of prostacyclin by substituted derivatives of BAPTA-AM. <b>1993</b> , 233, 13-20	14



1530	Effect of an intracellular calcium chelator on the regulation of electrically evoked [3H]-noradrenaline release from rat hippocampal slices. <b>1993</b> , 108, 126-31	16
1529	The positive inotropic effect of compound II, a novel analogue of sotalol, on guinea-pig papillary muscles and single ventricular myocytes. <b>1993</b> , 110, 95-8	4
1528	Controlling cell chemistry with caged compounds. <b>1993</b> , 55, 755-84	528
1527	Fluorescent PET (photoinduced electron transfer) sensors. <b>1993</b> , 223-264	298
1526	SYNTHESIS OF 5,5-DIFLUORO-BAPTA-AM, A USEFUL IN VIVO PROBE FOR CALCIUM DETERMINATION. <b>1993</b> , 25, 445-448	1
1525	Cell-permeant Ca <sup>2+</sup> chelators reduce early excitotoxic and ischemic neuronal injury in vitro and in vivo. <b>1993</b> , 11, 221-35	208
1524	Effects of calcium chelators on intracellular calcium and excitotoxicity. <b>1993</b> , 150, 129-32	29
1523	Thapsigargin, an inhibitor of endoplasmic reticulum Ca <sup>2+</sup> -ATPase, antagonizes cytochrome assembly of human hepatoma cells induced by teleocidin. <b>1993</b> , 1, 11-15	
1522	Rundown of NMDA-receptor mediated currents is resistant to lowering intracellular [Ca <sup>2+</sup> ] and is prevented by ATP in rat spinal dorsal horn neurons. <b>1993</b> , 157, 183-6	13
1521	NMDA receptor-dependent formation of long-term potentiation in the rat medial amygdala neuron in an in vitro slice preparation. <b>1993</b> , 31, 667-72	35
1520	Nuclear membrane dynamics. <b>1993</b> , 5, 387-94	61
1519	The effect of recoverin-like calcium-binding proteins on the photoresponse of retinal rods. <b>1993</b> , 10, 523-31	245
1518	Glutamate-induced increases in intracellular free Mg <sup>2+</sup> in cultured cortical neurons. <b>1993</b> , 11, 751-7	124
1517	Incurvation of early embryonic neural retina by acetylcholine through muscarinic receptors. <b>1993</b> , 163, 215-8	20
1516	Calcium mobilization is required for nuclear vesicle fusion in vitro: implications for membrane traffic and IP <sub>3</sub> receptor function. <b>1993</b> , 73, 1411-22	135
1515	Thapsigargin, an inhibitor of endoplasmic reticulum Ca(2+)-ATPase, enhances c-fos expression but antagonizes vacuole formation of human hepatoma cells induced by teleocidin. <b>1993</b> , 1177, 31-6	4
1514	Use of fura red as an intracellular calcium indicator in frog skeletal muscle fibers. <b>1993</b> , 64, 1934-60	130
1513	Evidence that activation of phospholipase D can mediate secretion from permeabilized platelets. <b>1993</b> , 344, 149-64	28

1512	Microinjection of strong calcium buffers suppresses the peak of calcium release during depolarization in frog skeletal muscle fibers. <b>1993</b> , 101, 297-333		49
1511	Dynamic, real time imaging of ion activities in single living cells using fluorescence video microscopy and image analysis. <b>1993</b> , 53, 27-39		8
1510	Inhibitory effects of histamine and bradykinin on calcium current in smooth muscle cells isolated from guinea-pig ileum. <i>Journal of Physiology</i> , <b>1993</b> , 463, 565-83	3.9	27
1509	The Cellular Basis of Cs-Us Pairing Efficacy for Classical Conditioning of Aplysia's Withdrawal Reflex: Potential Contribution of a Hebbian Mechanism. <b>1993</b> , 44, 234-258		1
1508	Signal transduction pathways of angiotensin II--induced c-fos gene expression in cardiac myocytes in vitro. Roles of phospholipid-derived second messengers. <b>1993</b> , 73, 424-38		34 <sup>2</sup>
1507	Hyperthermia, intracellular free calcium and calcium ionophores. <b>1993</b> , 64, 459-68		8
1506	Lifetime-Based Sensing Using Phase-Modulation Fluorometry. <b>1993</b> , 196-226		3
1505	Intracellular free Ca <sup>2+</sup> in the cell cycle in human fibroblasts: transitions between G1 and G0 and progression into S phase. <b>1993</b> , 4, 293-302		37
1504	Protein kinase C sensitizes olfactory adenylate cyclase. <b>1993</b> , 101, 183-205		49
1503	A lingering elevation of Ca <sub>i</sub> accompanies inhibition of inositol 1,4,5 trisphosphate-induced Ca release in Limulus ventral photoreceptors. <b>1993</b> , 101, 67-84		20
1502	BAPTA induces a decrease of intracellular free calcium and a translocation and inactivation of protein kinase C in macrophages. <b>1993</b> , 374, 171-4		33
1501	Effect of fura-2 on action potential-stimulated calcium release in cut twitch fibers from frog muscle. <b>1993</b> , 102, 295-332		64
1500	Mobile and immobile calcium buffers in bovine adrenal chromaffin cells. <i>Journal of Physiology</i> , <b>1993</b> , 469, 245-73	3.9	357
1499	Complexation Equilibria and Fluorescent Properties of Chelating Reagents Derived from Ethylene Glycol Bis(β-aminoethylether)-N,N,N',N'-tetraacetic Acid. <b>1993</b> , 66, 3377-3381		17
1498	Fluorimetrische Bestimmung der intrazellulären Calciumionen-Konzentration. <b>1993</b> , 41, 997-1002		7
1497	Cyclophilin-dependent stimulation of transcription by cyclosporin A. <b>1993</b> , 90, 148-52		17
1496	Fluorescence-lifetime-based sensing: applications to clinical chemistry and cellular imaging. <b>1993</b> ,		6
1495	Interconversion between distinct gating pathways of the high threshold calcium channel in rat ventricular myocytes. <i>Journal of Physiology</i> , <b>1993</b> , 462, 197-228	3.9	29

1494	Calcium-mediated modulation of N-methyl-D-aspartate (NMDA) responses in cultured rat hippocampal neurones. <i>Journal of Physiology</i> , <b>1993</b> , 470, 575-600	3.9	93
1493	Theophylline affects three different potassium currents in dissociated rat cortical neurones. <i>Journal of Physiology</i> , <b>1993</b> , 471, 599-616	3.9	21
1492	Barnacle muscle: Ca <sup>2+</sup> , activation and mechanics. <b>1993</b> , 122, 149-258		9
1491	Contribution of the low-threshold T-type calcium current in generating the post-spike depolarizing afterpotential in dentate granule neurons of immature rats. <b>1993</b> , 70, 223-31		54
1490	Mechanical stretch rapidly activates multiple signal transduction pathways in cardiac myocytes: potential involvement of an autocrine/paracrine mechanism.. <i>EMBO Journal</i> , <b>1993</b> , 12, 1681-1692	13	469
1489	Whole cell Cl <sup>-</sup> currents in human neutrophils induced by cell swelling. <b>1993</b> , 265, C156-65		67
1488	Mucin secretion by T84 cells: stimulation by PKC, Ca <sup>2+</sup> , and a protein kinase activated by Ca <sup>2+</sup> ionophore. <b>1993</b> , 264, G1096-102		11
1487	Modulation of calcium currents by a metabotropic glutamate receptor involves fast and slow kinetic components in cultured hippocampal neurons. <b>1993</b> , 13, 3041-50		114
1486	Role of calcium in chloride secretion mediated by cAMP pathway activation in rabbit distal colon mucosa. <b>1993</b> , 264, G252-60		6
1485	Weak excitation and simultaneous inhibition induce long-term depression in hippocampal CA1 neurons. <b>1994</b> , 71, 1586-90		65
1484	Effects of EGTA on calcium signaling in airway epithelial cells. <b>1994</b> , 267, C1426-34		11
1483	Regulatory volume decrease in HL-60 cells: importance of rapid changes in permeability of Cl <sup>-</sup> and organic solutes. <b>1994</b> , 267, C1045-56		36
1482	Regulation of M current by intracellular calcium in bullfrog sympathetic ganglion neurons. <b>1994</b> , 14, 3487-99		57
1481	Homosynaptic facilitation of transmitter release in crayfish is not affected by mobile calcium chelators: implications for the residual ionized calcium hypothesis from electrophysiological and computational analyses. <b>1994</b> , 72, 1769-93		82
1480	Calcium permeability of the neuronal nuclear envelope: evaluation using confocal volumes and intracellular perfusion. <b>1994</b> , 14, 5741-58		87
1479	NMR-sensitive fluorinated and fluorescent intracellular calcium ion indicators with high dissociation constants. <b>1994</b> , 266, C1313-22		29
1478	Effects of naftifine and terbinafine, two allylamine antifungal drugs, on selected functions of human polymorphonuclear leukocytes. <b>1994</b> , 38, 2605-11		12
1477	12(S)-HETE enhancement of prostate tumor cell invasion: selective role of PKC alpha. <b>1994</b> , 86, 1145-51		95

1476	Detection of coexisting fluid phospholipid phases by equilibrium Ca <sup>2+</sup> binding: peptide-poor L alpha and peptide-rich HII phase coexistence in gramicidin A'/phospholipid dispersions. <i>Biochemistry</i> , <b>1994</b> , 33, 12945-53	3.2	7
1475	Inactivation of N-type calcium current in chick sensory neurons: calcium and voltage dependence. <b>1994</b> , 104, 311-36		58
1474	On the localization of voltage-sensitive calcium channels in the flagella of <i>Chlamydomonas reinhardtii</i> . <b>1994</b> , 125, 1119-25		66
1473	Pollen tube growth is coupled to the extracellular calcium ion flux and the intracellular calcium gradient: effect of BAPTA-type buffers and hypertonic media. <b>1994</b> , 6, 1815-28		336
1472	Molecular tuning of ion binding to calcium signaling proteins. <b>1994</b> , 27, 219-90		328
1471	Two distinct, calcium-mediated, signal transduction pathways can trigger deflagellation in <i>Chlamydomonas reinhardtii</i> . <b>1994</b> , 124, 807-15		77
1470	Plasma membrane hyperpolarization by cyanide in chromaffin cells: role of potassium channels. <b>1994</b> , 68, 370-4		12
1469	Influx of Ca ion in cultured excitable cells studied by fluorescence microscope imaging technique. <b>1994</b> , 19, 155-165		
1468	Potassium single-channel properties in normal and Rous sarcoma virus-transformed chicken embryo fibroblasts. <b>1994</b> , 427, 17-23		3
1467	Detection of cadmium ion using the fluorescence probe Indo-1. <b>1994</b> , 295, 67-72		10
1466	Inhibition of mechanical strain-induced fetal rat lung cell proliferation by gadolinium, a stretch-activated channel blocker. <b>1994</b> , 161, 501-7		62
1465	BAPTA-calcium buffers modulate cell plate formation in stamen hairs of <i>Tradescantia</i> : evidence for calcium gradients. <b>1994</b> , 183, 86-99		21
1464	Localization of calcium entry through calcium channels in olfactory receptor neurones using a laser scanning microscope and the calcium indicator dyes Fluo-3 and Fura-Red. <i>Cell Calcium</i> , <b>1994</b> , 15, 341-8	4	54
1463	A simultaneous evaluation method of purity and apparent stability constant of Ca-chelating agents and selectivity coefficient of Ca-selective electrodes. <i>Cell Calcium</i> , <b>1994</b> , 15, 199-208	4	12
1462	Apparent stability constants and purity of Ca-chelating agents evaluated using Ca-selective electrodes by the double-log optimization method. <i>Cell Calcium</i> , <b>1994</b> , 15, 209-16	4	19
1461	Fluorescence lifetime imaging of intracellular calcium in COS cells using Quin-2. <i>Cell Calcium</i> , <b>1994</b> , 15, 7-27	4	96
1460	Calcium signalling in platelets and other nonexcitable cells. <b>1994</b> , 64, 395-443		49
1459	Mechanism of action and persistence of neuroprotection by cell-permeant Ca <sup>2+</sup> chelators. <b>1994</b> , 14, 911-23		64

1458	Regulation of the erythrocyte Ca(2+)-ATPase at high pH. <b>1994</b> , 220, 1029-36	2
1457	Carbachol-induced phosphatidylcholine hydrolysis and choline efflux in rat submandibular gland involves phospholipase D activation and is modulated by protein kinase C and calcium. <b>1994</b> , 151, 515-25	6
1456	Biphasic effect of calcium on neurite outgrowth in neuroblastoma and cerebellar granule cells. <b>1994</b> , 80, 7-12	3
1455	Hebbian induction of long-term potentiation of Aplysia sensorimotor synapses: partial requirement for activation of an NMDA-related receptor. <b>1994</b> , 255, 215-21	98
1454	Practical aspects of measuring [Ca2+] with fluorescent indicators. <b>1994</b> , 40, 155-81	231
1453	Kinetics of intracellular Ca2+ concentration changes and cell contraction of electrically stimulated cardiomyocytes as analysed by automated digital-imaging microscopy. <b>1994</b> , 175, 108-20	3
1452	The physical mechanism of calcium pump regulation in the heart. <b>1994</b> , 67, 190-6	82
1451	Calcium-dependent inactivation of L-type calcium channels in planar lipid bilayers. <b>1994</b> , 66, 1051-60	58
1450	Ca2+ transport properties of ionophores A23187, ionomycin, and 4-BrA23187 in a well defined model system. <b>1994</b> , 66, 1678-93	64
1449	Fluorescent sensors for physiological levels of magnesium ions based on photoinduced electron transfer (PET), which also behave as photoionic OR logic gates. <b>1994</b> , 1213-1214	114
1448	Reduction by intracellular calcium chelation of acetylcholine secretion without occluding the effects of adenosine at frog motor nerve endings. <b>1994</b> , 111, 753-8	13
1447	Release of intracellular calcium and stimulation of cell growth by ATP and histamine in human ovarian cancer cells (SKOV-3). <b>1994</b> , 77, 57-63	25
1446	Mechanosensitivity of NMDA receptors in cultured mouse central neurons. <b>1994</b> , 13, 645-55	196
1445	RNA synthesis inhibitors increase melatonin production in Y79 human retinoblastoma cells. <b>1994</b> , 23, 47-56	4
1444	Topics in Fluorescence Spectroscopy. <b>1994</b> ,	141
1443	Chemical depolarization-induced SR calcium release in triads isolated from rabbit skeletal muscle. <i>Biochemistry</i> , <b>1994</b> , 33, 10961-8	3,2 36
1442	A practical guide to the preparation of Ca2+ buffers. <b>1994</b> , 40, 3-29	435
1441	Pollen Tube Growth Is Coupled to the Extracellular Calcium Ion Flux and the Intracellular Calcium Gradient: Effect of BAPTA-Type Buffers and Hypertonic Media. <b>1994</b> , 6, 1815	38

1440	Regulation of the frequency-dependent facilitation of L-type Ca <sup>2+</sup> currents in rat ventricular myocytes. <i>Journal of Physiology</i> , <b>1994</b> , 477, 237-51	3.9	40
1439	Inactivation of outward Na(+)-Ca <sup>2+</sup> exchange current in guinea-pig ventricular myocytes. <i>Journal of Physiology</i> , <b>1994</b> , 476, 443-58	3.9	72
1438	Magnesium: the fifth but forgotten electrolyte. <b>1994</b> , 102, 616-22		193
1437	Simultaneous near ultraviolet and visible excitation confocal microscopy of calcium transients in <i>Xenopus</i> oocytes. <b>1994</b> , 40, 263-84		6
1436	Structural Effect on Chelation Selectivity of Alkaline Earth Metal Ions with Aminopolycarboxylate-Type Chelators. <b>1994</b> , 67, 1615-1621		3
1435	Intracellular Ca <sup>2+</sup> , inositol 1,4,5-trisphosphate and additional signalling in the stimulation by platelet-activating factor of prostaglandin E <sub>2</sub> formation in P388D1 macrophage-like cells. <i>Biochemical Journal</i> , <b>1994</b> , 298 Pt 3, 543-51	3.8	32
1434	The intracellular distribution of inositol polyphosphates in HL60 promyeloid cells. <i>Biochemical Journal</i> , <b>1994</b> , 303 ( Pt 2), 517-25	3.8	41
1433	Dual regulation of Ca <sup>2+</sup> /calmodulin-dependent kinase II activity by membrane voltage and by calcium influx. <b>1994</b> , 91, 9659-63		170
1432	Ca <sup>2+</sup> modulation of the cGMP-gated channel of bullfrog retinal rod photoreceptors. <i>Journal of Physiology</i> , <b>1995</b> , 484 ( Pt 1), 69-76	3.9	116
1431	Effects of high-energy phosphates on carbachol-evoked cationic current in single smooth muscle cells from guinea-pig ileum. <i>Journal of Physiology</i> , <b>1995</b> , 485 ( Pt 3), 659-69	3.9	6
1430	Effects of divalent cations on muscarinic receptor cationic current in smooth muscle from guinea-pig small intestine. <i>Journal of Physiology</i> , <b>1995</b> , 486 ( Pt 1), 67-82	3.9	39
1429	Studies on Elicitor-Signal Transduction Leading to Differential Expression of Defense Genes in Cultured Tobacco Cells. <b>1995</b> , 36, 281-289		60
1428	Arachidonic acid mobilization is suppressed during mitosis: role of cytosolic phospholipase A <sub>2</sub> activation. <i>Biochemical Journal</i> , <b>1995</b> , 309 ( Pt 1), 91-7	3.8	9
1427	Mechanism of action of gonadotropin-releasing hormone upon gonadotropin alpha-subunit mRNA levels in the alpha T3-1 cell line: role of Ca <sup>2+</sup> and protein kinase C. <i>Biochemical Journal</i> , <b>1995</b> , 309 ( Pt 1), 325-9	3.8	21
1426	Fluorescent PET(Photoinduced Electron Transfer) Sensors for Calcium Ions. Extension to Multiple Fluorophores and Virtual Spacers. <b>1995</b> , 24, 125-126		18
1425	[8] Measurement of cytosolic calcium by 19F NMR. <b>1995</b> , 27, 153-195		2
1424	Dissection of the Cell Cycle Using Cell-Free Extracts From <i>Xenopus</i> Laevis. <b>1995</b> , 13, 181-217		
1423	PHOTOPHYSICS OF THE FLUORESCENT Ca <sup>2+</sup> INDICATOR QUIN-2. <b>1995</b> , 61, 442-447		10

1422	Posttetanic potentiation and presynaptically induced long-term potentiation at the mossy fiber synapse in rat hippocampus. <b>1995</b> , 26, 370-85	44
1421	1,2-Bis(o-aminophenoxy)ethane-N, N, N?, N?-tetra-acetic acid derivatives on complexation with lanthanoid metal ions. Correlation between size of trapping hole and metal ion. <b>1995</b> , 6, 57-62	
1420	Use of the whole-cell patch-clamp method in studies on the role of cAMP in regulating the spontaneous firing of locus coeruleus neurons. <b>1995</b> , 59, 67-75	17
1419	Fluorescence lifetime-based sensing and imaging. <b>1995</b> , 29, 16-24	109
1418	Gangliosides inhibit PDGF-induced signal transduction events in U-1242 MG human glioma cells. <b>1995</b> , 20, 1389-95	10
1417	Blockade of receptor-operated calcium channels by mibefradil (Ro 40-5967): effects on intracellular calcium and platelet aggregation. <b>1995</b> , 9, 815-21	12
1416	Effects of cytosolic calcium and limited, possible dual, effects of G protein modulators on guard cell inward potassium channels. <b>1995</b> , 8, 479-489	80
1415	Determination of resting free calcium in barnacle muscle using modified aequorins, buffered calcium injections, and simultaneous image-intensified video microscopy. <b>1995</b> , 16, 499-507	3
1414	Effects of intracellular Ca <sup>2+</sup> chelation on the light response in Drosophila photoreceptors. <b>1995</b> , 177, 707-21	21
1413	Cytoplasmic Ca <sup>2+</sup> inhibits the ryanodine receptor from cardiac muscle. <b>1995</b> , 147, 7-22	133
1412	Molecular Recognition. The principle and recent chemical examples. <b>1995</b> , 337, 339-346	6
1411	Detection of cardiovascular calcified deposits via tetracarboxylate ion dye (BTC) probing and laser-induced fluorescence spectroscopy. <b>1995</b> , 27, 81-4	1
1410	Desperately seeking sensors. <b>1995</b> , 2, 423-8	219
1409	Intracellular calcium transients in suctorian protozoa ( <i>Trichophrya</i> spp.): correlation with spontaneous tentacle contractions. <i>Cell Calcium</i> , <b>1995</b> , 18, 51-63	4 2
1408	Possibility of simultaneously measuring low and high calcium concentrations using Fura-2 and lifetime-based sensing. <i>Cell Calcium</i> , <b>1995</b> , 18, 64-75	4 35
1407	Two novel antioxidants, U74006F and U78517F, inhibit oxidant-stimulated calcium influx. <b>1995</b> , 18, 467-78	19
1406	Extracellular H <sup>+</sup> modulates acetylcholine-activated nonselective cation channels in guinea pig ileum. <b>1995</b> , 268, C162-70	30
1405	Chemotactic properties of <i>Escherichia coli</i> mutants having abnormal Ca <sup>2+</sup> content. <b>1995</b> , 177, 7112-8	24

1404	Cellular calcium transport in renal epithelia: measurement, mechanisms, and regulation. <b>1995</b> , 75, 429-71		210
1403	Role of calcium feedback in excitation-contraction coupling in isolated triads. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 19936-42	5-4	11
1402	Binding of divalent cation and nucleotide to G-actin in the presence of profilin. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 1501-8	5-4	38
1401	Activation of nicotinic receptors triggers exocytosis from bovine chromaffin cells in the absence of membrane depolarization. <b>1995</b> , 92, 3065-9		53
1400	Angiotensin II stimulates tyrosine phosphorylation of the focal adhesion-associated protein paxillin in aortic smooth muscle cells. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 4401-4	5-4	78
1399	Cytosolic Concentration of Ca <sup>2+</sup> Regulates the Plasma Membrane H <sup>+</sup> -ATPase in Guard Cells of Fava Bean. <b>1995</b> , 7, 1333-1342		123
1398	Manganese effectively supports yeast cell-cycle progression in place of calcium. <b>1995</b> , 131, 1025-37		57
1397	Ca(2+)-dependent interaction of recoverin with rhodopsin kinase. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 18060-6	5-4	235
1396	Rapid inactivation of depletion-activated calcium current (ICRAC) due to local calcium feedback. <b>1995</b> , 105, 209-26		339
1395	alpha-Adrenergic inhibition of the beta-adrenoceptor-dependent chloride current in guinea-pig ventricular myocytes. <i>Journal of Physiology</i> , <b>1995</b> , 489 ( Pt 1), 95-104	3-9	10
1394	Cytosolic Concentration of Ca <sup>2+</sup> Regulates the Plasma Membrane H <sup>+</sup> -ATPase in Guard Cells of Fava Bean. <b>1995</b> , 7, 1333		117
1393	Low-Temperature Signal Transduction: Induction of Cold Acclimation-Specific Genes of Alfalfa by Calcium at 25 degrees C. <b>1995</b> , 7, 321		13
1392	Signal Transduction Protocols. <b>1995</b> ,		
1391	Measurement of intracellular free calcium ion concentration in cell populations using fura-2. <b>1995</b> , 41, 203-13		11
1390	[7] Use of chelators and photoactivatable caged compounds to manipulate cytosolic calcium. <b>1995</b> , 27, 123-152		4
1389	Characterization of guanylate cyclase activity in single retinal rod outer segments. <b>1995</b> , 106, 863-90		82
1388	The human sperm acrosome reaction: physiology and regulatory mechanisms. An update. <b>1995</b> , 1, 51-62		71
1387	Calcium release and its voltage dependence in frog cut muscle fibers equilibrated with 20 mM EGTA. <b>1995</b> , 106, 259-336		117



1386	Activation and deactivation of membrane currents in human fibroblasts following infection with human cytomegalovirus. <b>1995</b> , 1265, 143-51	14
1385	Effects of calcitonin gene-related peptide on intracellular calcium concentration in longitudinal muscle of guinea pig ileum. <b>1995</b> , 16, 299-305	2
1384	Action of angiotensin II, 5-hydroxytryptamine and adenosine triphosphate on ionic currents in single ear artery cells of the rabbit. <b>1995</b> , 116, 2148-54	19
1383	Platelet intracellular free calcium response to arginine vasopressin is similar in preeclampsia and normal pregnancy. <b>1995</b> , 172, 654-60	11
1382	New fluorescent calcium indicators designed for cytosolic retention or measuring calcium near membranes. <b>1995</b> , 69, 2112-24	145
1381	Local positive feedback by calcium in the propagation of intracellular calcium waves. <b>1995</b> , 69, 1683-97	45
1380	Effects of pH conditions on Ca <sup>2+</sup> transport catalyzed by ionophores A23187, 4-BrA23187, and ionomycin suggest problems with common applications of these compounds in biological systems. <b>1995</b> , 69, 2350-63	38
1379	The role of MgADP in force maintenance by dephosphorylated cross-bridges in smooth muscle: a flash photolysis study. <b>1995</b> , 69, 2611-22	74
1378	Measurement of Intracellular Ions by Flow Cytometry. <b>1995</b> , 14, 5.5.1	2
1377	Low-temperature signal transduction: induction of cold acclimation-specific genes of alfalfa by calcium at 25 degrees C. <b>1995</b> , 7, 321-31	309
1376	Surface potentials measure ion concentrations near lipid bilayers during rapid solution changes. <b>1996</b> , 71, 722-31	11
1375	A theoretical study of calcium microdomains in turtle hair cells. <b>1996</b> , 71, 2256-75	48
1374	Membrane-proximal calcium transients in stimulated neutrophils detected by total internal reflection fluorescence. <b>1996</b> , 71, 2885-91	45
1373	Properties of tri- and tetracarboxylate Ca <sup>2+</sup> indicators in frog skeletal muscle fibers. <b>1996</b> , 70, 896-916	118
1372	The nature of rhodopsin-triggered photocurrents in Chlamydomonas. I. Kinetics and influence of divalent ions. <b>1996</b> , 70, 924-31	63
1371	Effects of injecting calcium-buffer solution on [Ca <sup>2+</sup> ] <sub>i</sub> in voltage-clamped snail neurons. <b>1996</b> , 70, 2120-30	17
1370	Validity of the rapid buffering approximation near a point source of calcium ions. <b>1996</b> , 70, 2527-39	113
1369	New Synthetic Amino Acids for the Design and Synthesis of Peptide-Based Metal Ion Sensors. <b>1996</b> , 61, 8940-8948	83

1368	Modulation by calcineurin of 5-HT <sub>3</sub> receptor function in NG108-15 neuroblastoma x glioma cells. <b>1996</b> , 118, 1836-40	21
1367	Some evidence against the involvement of arachidonic acid in muscarinic suppression of voltage-gated calcium channel current in guinea-pig ileal smooth muscle cells. <b>1996</b> , 119, 213-22	13
1366	Modulation of hippocampal synaptic transmission by low concentrations of cell-permeant Ca <sup>2+</sup> chelators: effects of Ca <sup>2+</sup> affinity, chelator structure and binding kinetics. <b>1996</b> , 75, 559-72	22
1365	Calcium- and barium-dependent extracellular alkaline shifts evoked by electrical activity in rat hippocampal slices. <b>1996</b> , 75, 1117-26	19
1364	Accumulation and extrusion of permeant Ca <sup>2+</sup> chelators in attenuation of synaptic transmission at hippocampal CA1 neurons. <b>1996</b> , 75, 99-109	38
1363	Reconstitution of nuclear pore assembly and function. <b>1996</b> , 7, 475-486	7
1362	Increase of empty pool-activated Ca <sup>2+</sup> influx using an intracellular Ca <sup>2+</sup> chelating agent. <b>1996</b> , 218, 837-41	11
1361	Effect of hypothermia on intracellular Ca <sup>2+</sup> in rabbit renal tubules suspended in UW-gluconate preservation solution. <b>1996</b> , 33, 196-204	14
1360	Inhibition of calcineurin inhibits the desensitization of capsaicin-evoked currents in cultured dorsal root ganglion neurones from adult rats. <b>1996</b> , 431, 828-837	16
1359	The effects of raising intracellular calcium on synaptic GABA <sub>A</sub> receptor-channels. <b>1996</b> , 35, 1365-74	38
1358	Signaling from synapse to nucleus: postsynaptic CREB phosphorylation during multiple forms of hippocampal synaptic plasticity. <b>1996</b> , 16, 89-101	609
1357	Intracellular calcium directly inhibits potassium M channels in excised membrane patches from rat sympathetic neurons. <b>1996</b> , 16, 151-62	113
1356	Inhibition of calcineurin inhibits the desensitization of capsaicin-evoked currents in cultured dorsal root ganglion neurones from adult rats. <b>1996</b> , 431, 828-37	233
1355	An essential role for Bruton's [corrected] tyrosine kinase in the regulation of B-cell apoptosis. <b>1996</b> , 93, 10966-71	107
1354	Multiple ligand-ion solutions: a guide for solution preparation and computer program understanding. <b>1996</b> , 33, 86-98	27
1353	The biology of vision of Drosophila. <b>1996</b> , 93, 571-6	181
1352	Dynamics of intracellular ionic concentrations in single living cells using videomicrofluorometry: application to pHi variations. <b>1996</b> ,	
1351	Activation of metabotropic glutamate receptors decreases a high-threshold calcium current in spiking neurons of the Xenopus retina. <b>1996</b> , 13, 549-57	27

1350	External-anion-dependent anionic current in blastoderm cells of early medaka fish embryos. <i>Journal of Physiology</i> , <b>1996</b> , 495 ( Pt 1), 51-63	3.9	4
1349	Enhancement of delayed rectifier K <sup>+</sup> current by P2-purinoceptor stimulation in guinea-pig atrial cells. <i>Journal of Physiology</i> , <b>1996</b> , 490 ( Pt 3), 647-58	3.9	25
1348	Modulation of the muscarinic K <sup>+</sup> channel by P2-purinoceptors in guinea-pig atrial myocytes. <i>Journal of Physiology</i> , <b>1996</b> , 497 ( Pt 2), 379-93	3.9	15
1347	Fluorescence imaging and dynamics of intracellular ionic concentrations in single living cells: application to pHi and Mgi variations. <b>1996</b> ,		
1346	Normal and abnormal calcium homeostasis in neurons: a basis for the pathophysiology of traumatic and ischemic central nervous system injury. <b>1996</b> , 38, 1176-95		206
1345	Elevation of intracellular calcium by muscarinic receptor activation induces a block of voltage-activated rat ether-γgo-go channels in a stably transfected cell line. <b>1996</b> , 93, 9910-4		74
1344	Enhancement of sensorimotor connections by conditioning-related stimulation in Aplysia depends upon postsynaptic Ca <sup>2+</sup> . <b>1996</b> , 93, 9931-6		52
1343	Calcium-dependent enhancement of depletion-activated calcium current in Jurkat T lymphocytes. <b>1996</b> , 150, 63-71		38
1342	Calcium modulates circadian variation in cAMP-stimulated melatonin in chick pineal cells. <b>1996</b> , 716, 1-10		17
1341	Effects of calcium on the electric coupling of carotid body glomus cells. <b>1996</b> , 725, 125-31		12
1340	Activation of phospholipase D is an early event in integrin-mediated signalling leading to phagocytosis in human neutrophils. <b>1996</b> , 20, 439-50		45
1339	Shrinkage-induced activation of the Na <sup>+</sup> /H <sup>+</sup> exchanger in Ehrlich ascites tumor cells: mechanisms involved in the activation and a role for the exchanger in cell volume regulation. <b>1996</b> , 149, 141-59		39
1338	Characterization of fluo-3 labelling of dense bodies at the hair cell's presynaptic active zone. <b>1996</b> , 25, 257-66		13
1337	Non-hyperbolic calcium calibration curve of Fura-2: implications for the reliability of quantitative Ca <sup>2+</sup> measurements. <i>Cell Calcium</i> , <b>1996</b> , 20, 287-92	4	16
1336	Signal pathways and ligament cell adhesiveness. <b>1996</b> , 14, 729-35		26
1335	MRS studies on cerebral metabolism in intact tissues. <b>1996</b> , 18, 143-153		
1334	Endothelin-3 attenuates the cyclic GMP responses to C-type natriuretic peptide in cultured mouse astrocytes. <b>1996</b> , 46, 686-96		6
1333	Whole-cell voltage-clamp investigation of the role of PKC in muscarinic inhibition of IAHP in rat CA1 hippocampal neurons. <b>1996</b> , 6, 183-91		11

1332	Cyanide-stimulated inositol 1,4,5-trisphosphate formation: an intracellular neurotoxic signaling cascade. <b>1996</b> , 11, 251-6		21
1331	Measurement of protein structure change in active muscle by hydrogen-tritium exchange. <b>1996</b> , 59, 221-30		4
1330	Steady-state and time-resolved fluorescence measurements for studying molecular interactions: interaction of a calcium-binding probe with proteins. <b>1996</b> , 62, 25-38		24
1329	Fluorescence lifetime characterization of magnesium probes: Improvement of Mg(2+) dynamic range and sensitivity using phase-modulation fluorometry. <b>1996</b> , 6, 83-95		36
1328	Temperature dependence of macroscopic L-type calcium channel currents in single guinea pig ventricular myocytes. <b>1996</b> , 7, 307-21		29
1327	Ca(2+)-dependence of conoid extrusion in <i>Toxoplasma gondii</i> tachyzoites. <b>1996</b> , 43, 120-7		126
1326	Metalloprotein design. <b>1996</b> , 7, 437-41		44
1325	Cholinergic modulation of the action potential in rat hippocampal neurons. <b>1996</b> , 8, 211-9		33
1324	Cold-shock regulation of the Arabidopsis TCH genes and the effects of modulating intracellular calcium levels. <b>1996</b> , 111, 1271-9		156
1323	A microscopic setup for combined, and time-coordinated electrophysiological and confocal fluorescence microscopic experiments on neurons in living brain slices. <b>1996</b> , 67, 530-534		1
1322	Thapsigargin-induced calcium influx in the absence of detectable tyrosine phosphorylation in human platelets. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 19524-9	5-4	23
1321	Spasmolytic activity of a lipidic extract from <i>Sabal serrulata</i> fruits: further study of the mechanisms underlying this activity. <b>1996</b> , 62, 507-11		10
1320	The high affinity calcium-binding sites in the epidermal growth factor module region of vitamin K-dependent protein S. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 23255-60	5-4	30
1319	Ca(2+)- and caffeine-induced Ca <sub>2</sub> <sup>+</sup> release from the sarcoplasmic reticulum in rat skinned trabeculae: effects of pH and Pi. <b>1997</b> , 33, 314-23		22
1318	ATP-induced mucin release from cultured airway goblet cells involves, in part, activation of protein kinase C. <b>1997</b> , 16, 194-8		20
1317	The hemopexin-like domain (C domain) of human gelatinase A (matrix metalloproteinase-2) requires Ca <sub>2</sub> <sup>+</sup> for fibronectin and heparin binding. Binding properties of recombinant gelatinase A C domain to extracellular matrix and basement membrane components. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 7473-81	5-4	93
1316	Sodium butyrate decreases histamine-stimulated calcium mobilization in C6 glioma cells. <b>1997</b> , 8, 1375-8		3
1315	Role of Ca <sub>2</sub> <sup>+</sup> and protein kinase C in the receptor-mediated activation of Na <sup>+</sup> /H <sup>+</sup> exchange in isolated liver cells. <i>Biochemical Journal</i> , <b>1997</b> , 325 ( Pt 3), 631-6	3.8	15

1314	Kinetics of Formation of Ca(2+) Complexes of Acyclic and Macrocyclic Poly(amino carboxylate) Ligands: Bimolecular Rate Constants for the Fully-Deprotonated Ligands Reveal the Effect of Macrocyclic Ligand Constraints on the Rate-Determining Conversions of Rapidly-Formed Intermediates to the Final Complexes. <b>1997</b> , 36, 1884-1889	17
1313	Activation of Plant Plasma Membrane Ca <sup>2+</sup> -Permeable Channels by Race-Specific Fungal Elicitors. <b>1997</b> , 113, 269-279	168
1312	Dissociation of Ca <sup>2+</sup> from sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase and changes in fluorescence of optically selected Trp residues. Effects of KCl and NaCl and implications for substeps in Ca <sup>2+</sup> dissociation. <i>Biochemistry</i> , <b>1997</b> , 36, 12383-93	3.2 17
1311	Chapter 6 Talking to cells—cell membrane receptors and their modes of action. <b>1997</b> , 173-201	1
1310	Cellular function probes. <b>2001</b> , Chapter 4, Unit 4.4	1
1309	Heterogeneity of Ca <sup>2+</sup> gating of skeletal muscle and cardiac ryanodine receptors. <b>1997</b> , 73, 141-56	120
1308	Measurement of intracellular calcium ions by flow cytometry. <b>2001</b> , Chapter 9, Unit 9.8	17
1307	Photosensitized Near Infrared Luminescence of Ytterbium(III) in Proteins and Complexes Occurs via an Internal Redox Process. <b>1997</b> , 119, 5972-5973	249
1306	Pseudosubstrate hydrolysis by the erythrocyte plasma membrane Ca(2+)-ATPase: kinetic evidence for a modified E1 conformation in dimethylsulfoxide. <b>1997</b> , 1323, 291-8	12
1305	Actin assembly by cadmium ions. <b>1997</b> , 1357, 5-17	19
1304	The effects of artificial calcium buffers on calcium responses and glutamate-mediated excitotoxicity in cultured hippocampal neurons. <b>1997</b> , 81, 673-87	32
1303	Changes in platelet calcium concentration by thromboxane A <sub>2</sub> stimulation in patients with nephrotic syndrome of childhood. <b>1997</b> , 77, 309-14	5
1302	Postsynaptic calcineurin activity downregulates synaptic transmission by weakening intracellular Ca <sup>2+</sup> signaling mechanisms in hippocampal CA1 neurons. <b>1997</b> , 17, 4600-11	93
1301	Mechanisms and effects of intracellular calcium buffering on neuronal survival in organotypic hippocampal cultures exposed to anoxia/aglycemia or to excitotoxins. <b>1997</b> , 17, 3538-53	110
1300	Kinetics, Ca <sup>2+</sup> dependence, and biophysical properties of integrin-mediated mechanical modulation of transmitter release from frog motor nerve terminals. <b>1997</b> , 17, 904-16	73
1299	Are some minis multiquantal?. <b>1997</b> , 78, 1293-304	38
1298	Differential sensitivity to intracellular pH among high- and low-threshold Ca <sup>2+</sup> currents in isolated rat CA1 neurons. <b>1997</b> , 77, 639-53	91
1297	An endogenous calcium oscillator may control early embryonic division. <b>1997</b> , 94, 1194-9	36

1296	Neurotransmitter- and growth factor-induced cAMP response element binding protein phosphorylation in glial cell progenitors: role of calcium ions, protein kinase C, and mitogen-activated protein kinase/ribosomal S6 kinase pathway. <b>1997</b> , 17, 1291-301		171
1295	Spontaneous acetylcholine release in mammalian neuromuscular junctions. <b>1997</b> , 273, C1835-41		45
1294	Impact of cytoplasmic calcium buffering on the spatial and temporal characteristics of intercellular calcium signals in astrocytes. <b>1997</b> , 17, 7359-71		58
1293	The role of calcium in the desensitization of capsaicin responses in rat dorsal root ganglion neurons. <b>1997</b> , 17, 3525-37		266
1292	Effects of intracellular Ca <sup>2+</sup> chelating on noradrenaline release in normoxic and anoxic hearts. <b>1997</b> , 24, 819-23		2
1291	Mechanism of oxidative stress-induced intracellular acidosis in rat cerebellar astrocytes and C6 glioma cells. <i>Journal of Physiology</i> , <b>1997</b> , 502 ( Pt 1), 161-74	3.9	72
1290	Biological evaluation of mitomycin C bound to a biodegradable polymeric carrier. <b>1997</b> , 47, 71-80		12
1289	Ionophore-releasable luminal Ca <sup>2+</sup> stores are not required for nuclear envelope assembly or nuclear protein import in <i>Xenopus</i> egg extracts. <i>Cell Calcium</i> , <b>1997</b> , 21, 151-61	4	13
1288	A novel use for a carbodiimide compound for the fixation of fluorescent and non-fluorescent calcium indicators in situ following physiological experiments. <i>Cell Calcium</i> , <b>1997</b> , 21, 175-83	4	27
1287	T-jump study of calcium binding kinetics of calcium chelators. <i>Cell Calcium</i> , <b>1997</b> , 22, 255-68	4	163
1286	Preparation, characterization and utility of a novel antibody for resolving the spatial and temporal dynamics of the calcium chelator BAPTA. <i>Cell Calcium</i> , <b>1997</b> , 22, 111-20	4	8
1285	Signaling Recognition Events with Fluorescent Sensors and Switches. <b>1997</b> , 97, 1515-1566		6140
1284	Fluorescent Chemosensors for Divalent Zinc Based on Zinc Finger Domains. Enhanced Oxidative Stability, Metal Binding Affinity, and Structural and Functional Characterization. <b>1997</b> , 119, 3443-3450		193
1283	Activation of non-selective cation conductance by carbachol in freshly isolated bovine ciliary muscle cells. <b>1997</b> , 433, 705-12		12
1282	Cycloheximide induces a subset of low temperature-inducible genes in maize. <b>1997</b> , 254, 275-83		63
1281	A novel cognition enhancer NS-105 modulates adenylate cyclase activity through metabotropic glutamate receptors in primary neuronal culture. <b>1997</b> , 356, 189-96		9
1280	Hyperpolarization-activated Ca <sup>2+</sup> -permeable channels in the plasma membrane of tomato cells. <b>1997</b> , 155, 35-45		98
1279	Free cyclic AMP increases in PC12 cells on depolarization. <b>1997</b> , 47, 555-60		8

1278	Fluorescence detection of calcium-binding proteins with quinoline Ca-indicator quin2. <b>1997</b> , 254, 126-31		23
1277	The inflammatory cytokines tumor necrosis factor alpha and interleukin-1beta stimulate phosphatidylcholine secretion in primary cultures of rat type II pneumocytes. <b>1998</b> , 189, 169-76		8
1276	Suppressed germination and early death of <i>Phytophthora infestans</i> sporangia caused by pectin, inorganic phosphate, ion chelators and calcium-modulating treatments. <b>1998</b> , 104, 367-376		17
1275	Excitation-secretion coupling in mammalian neurohypophysial nerve terminals. <b>1998</b> , 18, 65-80		14
1274	Fluorescent probes for living cells. <b>1998</b> , 30, 123-40		188
1273	Termination of cytosolic Ca <sup>2+</sup> signals: Ca <sup>2+</sup> reuptake into intracellular stores is regulated by the free Ca <sup>2+</sup> concentration in the store lumen. <i>EMBO Journal</i> , <b>1998</b> , 17, 435-42	13	187
1272	Ortho-substituted polychlorinated biphenyls activate respiratory burst measured as luminol-amplified chemoluminescence in human granulocytes. <b>1998</b> , 150, 369-75		38
1271	Transmitter release modulation in nerve terminals of rat neocortical pyramidal cells by intracellular calcium buffers. <i>Journal of Physiology</i> , <b>1998</b> , 513 ( Pt 1), 135-48	3.9	70
1270	Modulation of calcium signals by intracellular pH in isolated rat pancreatic acinar cells. <i>Journal of Physiology</i> , <b>1998</b> , 506 ( Pt 2), 415-30	3.9	47
1269	Kainate induces an intracellular Na <sup>+</sup> -activated current in cultured embryonic rat hippocampal neurones. <i>Journal of Physiology</i> , <b>1998</b> , 510 ( Pt 3), 721-34	3.9	11
1268	Membrane capacitance changes induced by thrombin and calcium in single endothelial cells cultured from human umbilical vein. <i>Journal of Physiology</i> , <b>1998</b> , 513 ( Pt 3), 845-55	3.9	9
1267	Intravenously administered cell-permeant calcium buffer decreases evoked synaptic potentials in rat dentate gyrus in vivo. <b>1998</b> , 810, 269-73		1
1266	Passive Ca <sup>2+</sup> binding in ventricular myocardium of neonatal and adult rats. <i>Cell Calcium</i> , <b>1998</b> , 23, 433-42		29
1265	TPEN, a Zn <sup>2+</sup> /Fe <sup>2+</sup> chelator with low affinity for Ca <sup>2+</sup> , inhibits lamin assembly, destabilizes nuclear architecture and may independently protect nuclei from apoptosis in vitro. <i>Cell Calcium</i> , <b>1998</b> , 23, 151-64		50
1264	The construction of metal centers in proteins by rational design. <b>1998</b> , 3, R1-8		67
1263	Carbon monoxide as a regulator of bile canalicular contractility in cultured rat hepatocytes. <b>1998</b> , 28, 286-95		58
1262	Ein Chemosensor zur Bestimmung von Citrat in Getränken. <b>1998</b> , 110, 682-684		48
1261	Effects of intracellular calcium on GABA <sub>A</sub> receptors in mouse cortical neurons. <b>1998</b> , 435, 382-7		32

1260	Effect of acidosis on Ca <sup>2+</sup> -activated K <sup>+</sup> channels in cultured porcine coronary artery smooth muscle cells. <b>1998</b> , 436, 509-14		29
1259	Measurement of SR Ca <sup>2+</sup> content in the presence of caffeine in permeabilised rat cardiac trabeculae. <b>1998</b> , 437, 139-48		4
1258	Free calcium ion concentration in the sieve-tube sap of <i>Ricinus communis</i> L. seedlings. <b>1998</b> , 206, 103-107		22
1257	An efficient synthesis of a novel bifunctional chelating agent. <b>1998</b> , 39, 9107-9108		1
1256	Intracellular Ca <sup>2+</sup> during metabolic activation of KATP channels in spontaneously active dorsal vagal neurons in medullary slices. <b>1998</b> , 10, 2574-85		25
1255	Telomerase is not an epidermal stem cell marker and is downregulated by calcium. <b>1998</b> , 111, 1045-52		65
1254	A nanosecond fluorescence study of the simultaneous influx of Ca <sup>2+</sup> and Cd <sup>2+</sup> into liposomes. <b>1998</b> , 71, 63-72		9
1253	Neurotensin enhances agonist-induced cAMP accumulation in PC3 cells via Ca <sup>2+</sup> -dependent adenylyl cyclase(s). <b>1998</b> , 144, 47-57		17
1252	Ligation of the alpha <sub>2</sub> M signaling receptor with receptor-recognized forms of alpha <sub>2</sub> -macroglobulin initiates protein and DNA synthesis in macrophages. The effect of intracellular calcium. <b>1998</b> , 1401, 121-8		25
1251	The effect of water soluble cyanotoxin(s) produced by two species of <i>Anabaena</i> on the release of acetylcholine from the peripheral cholinergic nervous system of the rat airway. <b>1998</b> , 5, 51-9		4
1250	Cellular calcium in health and disease. <b>1998</b> , 1406, 127-51		35
1249	Characterization of Mg <sup>2+</sup> transport in brush border membrane vesicles of rabbit ileum studied with mag-fura-2. <b>1998</b> , 1370, 51-63		22
1248	Activation of a plant plasma membrane Ca <sup>2+</sup> channel by TGalpha1, a heterotrimeric G protein alpha-subunit homologue. <i>FEBS Letters</i> , <b>1998</b> , 424, 17-21	3.8	69
1247	Confocal Microscopy Methods and Protocols. <b>1998</b> ,		5
1246	Simultaneous detection of catecholamine exocytosis and Ca <sup>2+</sup> release from single bovine chromaffin cells using a dual microsensor. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 1677-81	7.8	50
1245	Effect of replacement of the tightly bound Ca <sup>2+</sup> by Ba <sup>2+</sup> on actin polymerization. <b>1998</b> , 351, 141-8		7
1244	Inhibition of phosphoinositide metabolism or chelation of intracellular calcium blocks FSH-induced but not spontaneous meiotic resumption in mouse oocytes. <b>1998</b> , 203, 201-9		58
1243	Binding of iron and inhibition of iron-dependent oxidative cell injury by the "calcium chelator" 1,2-bis(2-aminophenoxy)ethane N,N,N',N'-tetraacetic acid (BAPTA). <b>1998</b> , 55, 287-95		26



1242	Mechanisms of hydrogen peroxide-induced contraction of rat aorta. <b>1998</b> , 344, 169-81		95
1241	Fluorescent, sequence-selective peptide detection by synthetic small molecules. <b>1998</b> , 279, 851-3		118
1240	Regulation of neural cell adhesion molecule polysialylation: evidence for nontranscriptional control and sensitivity to an intracellular pool of calcium. <b>1998</b> , 140, 1177-86		68
1239	Calcium homeostasis in early hamster preimplantation embryos. <b>1998</b> , 59, 1000-7		37
1238	A calcium signaling cascade essential for myosin thick filament assembly in <i>Xenopus</i> myocytes. <b>1998</b> , 141, 1349-56		60
1237	Fluorescent calcium indicators: subcellular behavior and use in confocal imaging. <b>1999</b> , 122, 261-303		13
1236	Model of sarcomeric Ca <sup>2+</sup> movements, including ATP Ca <sup>2+</sup> binding and diffusion, during activation of frog skeletal muscle. <b>1998</b> , 112, 297-316		138
1235	The medial-Golgi ion pump Pmr1 supplies the yeast secretory pathway with Ca <sup>2+</sup> and Mn <sup>2+</sup> required for glycosylation, sorting, and endoplasmic reticulum-associated protein degradation. <b>1998</b> , 9, 1149-62		344
1234	Intracellular Mg <sup>2+</sup> regulation in voltage-clamped <i>Helix aspersa</i> neurones measured with mag-fura-2 and Mg(2+)-sensitive microelectrodes. <b>1998</b> , 83, 449-60		5
1233	Cut-open recording techniques. <b>1998</b> , 293, 319-31		7
1232	The endogenous calcium buffer and the time course of transducer adaptation in auditory hair cells. <b>1998</b> , 18, 8261-77		147
1231	Experimental Chemical Kinetics of an A+B->O System Showing Non-Classical Effects of Initial Reactant Distribution. <b>1998</b> , 543, 255		
1230	Hydrogen peroxide-induced DNA damage is independent of nuclear calcium but dependent on redox-active ions. <i>Biochemical Journal</i> , <b>1998</b> , 335 ( Pt 1), 85-94	3.8	59
1229	Attenuation of drug-stimulated topoisomerase II-DNA cleavable complex formation in wild-type HL-60 cells treated with an intracellular calcium buffer is correlated with decreased cytotoxicity and site-specific hypophosphorylation of topoisomerase IIalpha. <i>Biochemical Journal</i> , <b>1998</b> , 336 ( Pt 3), 727-33	3.8	13
1228	The relation of exocytosis and rapid endocytosis to calcium entry evoked by short repetitive depolarizing pulses in rat melanotropic cells. <b>1998</b> , 18, 81-92		39
1227	Submillimolar levels of calcium regulates DNA structure at the dinucleotide repeat (TG/AC) <sub>n</sub> . <b>1998</b> , 95, 5981-6		42
1226	Transient suppression of GABAA-receptor-mediated IPSPs after epileptiform burst discharges in CA1 pyramidal cells. <b>1998</b> , 79, 659-69		43
1225	cAMP-mediated regulation of neurotrophin-induced collapse of nerve growth cones. <b>1998</b> , 18, 4973-84		66

1224	Effects of BAPTA on force and Ca <sup>2+</sup> transient during isometric contraction of frog muscle fibers. <b>1998</b> , 275, C375-81	2
1223	Ca <sup>2+</sup> depolarizes adrenal cortical cells through selective inhibition of an ATP-activated K <sup>+</sup> current. <b>1998</b> , 275, C1526-37	13
1222	Cytosolic ionized Ca <sup>2+</sup> modulates chemical hypoxia-induced hyperpermeability in intestinal epithelial monolayers. <b>1998</b> , 274, G700-8	6
1221	A maturational shift in pulmonary K <sup>+</sup> channels, from Ca <sup>2+</sup> sensitive to voltage dependent. <b>1998</b> , 275, L1019-25	37
1220	Intracellular pH buffering shapes activity-dependent Ca <sup>2+</sup> dynamics in dendrites of CA1 interneurons. <b>1998</b> , 80, 1702-12	33
1219	G protein-mediated inhibition of neuronal migration requires calcium influx. <b>1998</b> , 18, 4189-200	27
1218	Physiological features of visceral smooth muscle cells, with special reference to receptors and ion channels. <b>1998</b> , 78, 811-920	198
1217	Mitochondrial transport of cations: channels, exchangers, and permeability transition. <b>1999</b> , 79, 1127-55	1277
1216	Micro-perfusion flow cell for imaging cultured cells. <b>1999</b> , 27, 722-6, 728	3
1215	Changes in the calcium dependence of glutamate transmission in the hippocampal CA1 region after brief hypoxia-hypoglycemia. <b>1999</b> , 82, 1147-55	22
1214	Internal calcium modulates apparent affinity of metabotropic GABA receptors. <b>1999</b> , 82, 3298-306	11
1213	Caffeine-sensitive calcium stores regulate synaptic transmission from retinal rod photoreceptors. <b>1999</b> , 19, 7249-61	92
1212	Measurement of intracellular calcium. <b>1999</b> , 79, 1089-125	588
1211	3,5 cyclic adenosine monophosphate mediates the salmon calcitonin-induced increase in hypothalamic tyrosine hydroxylase activity. <b>1999</b> , 140, 3273-81	8
1210	Molecular components of large conductance calcium-activated potassium (BK) channels in mouse pituitary corticotropes. <b>1999</b> , 13, 1728-37	63
1209	Fluorescent measurement of [Ca <sup>2+</sup> ] <sub>i</sub> . Basic practical considerations. <b>1999</b> , 114, 3-30	8
1208	Photolabile Caged Compounds. <b>1999</b> , 540-553	1
1207	Fusion of endosomes involved in synaptic vesicle recycling. <b>1999</b> , 10, 3035-44	72

1206	Active nuclear import and export is independent of luminal Ca <sup>2+</sup> stores in intact mammalian cells. <b>1999</b> , 113, 239-48		45
1205	Signal Transduction in Mast Cells and Basophils. <b>1999</b> ,		1
1204	Vascular endothelial growth factor signals endothelial cell production of nitric oxide and prostacyclin through flk-1/KDR activation of c-Src. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 25130-5	5-4	367
1203	The bell-shaped Ca <sup>2+</sup> dependence of the inositol 1,4, 5-trisphosphate-induced Ca <sup>2+</sup> release is modulated by Ca <sup>2+</sup> /calmodulin. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 13748-51	5-4	76
1202	Synthesis and characterisation of new fluorescent Na <sup>+</sup> and K <sup>+</sup> indicators. <b>1999</b> , 55, 5207-5226		8
1201	Calcium dependence of depolarization-induced suppression of inhibition in rat hippocampal CA1 pyramidal neurons. <i>Journal of Physiology</i> , <b>1999</b> , 521 Pt 1, 147-57	3-9	43
1200	Effects of calcium buffering on glucose-induced insulin release in mouse pancreatic islets: an approximation to the calcium sensor. <i>Journal of Physiology</i> , <b>1999</b> , 520 Pt 2, 473-83	3-9	21
1199	ATP inhibition of a mouse brain large-conductance K <sup>+</sup> (mslo) channel variant by a mechanism independent of protein phosphorylation. <i>Journal of Physiology</i> , <b>1999</b> , 516 ( Pt 1), 45-53	3-9	19
1198	Sr <sup>2+</sup> -dependent asynchronous evoked transmission at rat striatal inhibitory synapses in vitro. <i>Journal of Physiology</i> , <b>1999</b> , 514 ( Pt 2), 447-58	3-9	29
1197	Calcium and phospholipase A2 are both required for the acrosome reaction mediated by G-proteins stimulation in human spermatozoa. <b>1999</b> , 52, 297-302		12
1196	Hydrogen peroxide induces contraction and raises [Ca <sup>2+</sup> ] <sub>i</sub> in canine cerebral arterial smooth muscle: participation of cellular signaling pathways. <b>1999</b> , 360, 646-53		71
1195	Differential modulation of voltage-dependent Ca <sup>2+</sup> currents by EGTA and BAPTA in bovine adrenal chromaffin cells. <b>1999</b> , 439, 27-38		6
1194	Ca <sup>2+</sup> and phorbol ester effect on the mast cell phosphoprotein induced by cromolyn. <b>1999</b> , 371, 241-9		10
1193	Generation of reactive oxygen intermediates, activation of NF-kappaB, and induction of apoptosis in human endothelial cells by glucose: role of nitric oxide synthase?. <b>1999</b> , 27, 752-63		177
1192	Fluorometric determination of aminopolycarboxylates using Fluo-3. <b>1999</b> , 270, 329-31		5
1191	The effect of pH and temperature on the dissociation constant for fura-2 and their effects on [Ca(2+)] <sub>i</sub> in enterocytes from a poikilothermic animal, Atlantic cod ( <i>Gadus morhua</i> ). <b>1999</b> , 273, 60-5		27
1190	Induction of Na <sup>+</sup> channel voltage sensitivity in <i>Xenopus</i> oocytes depends on Ca <sup>2+</sup> mobilization. <b>1999</b> , 178, 258-66		7
1189	Flow cytometric kinetic assay of calcium mobilization in whole blood platelets using Fluo-3 and CD41. <b>1999</b> , 35, 302-310		41

1188	Are there differences between the secretion characteristics of NGF and BDNF? Implications for the modulatory role of neurotrophins in activity-dependent neuronal plasticity. <b>1999</b> , 45, 262-75	102
1187	Differential modulation of voltage-dependent Ca <sup>2+</sup> currents by EGTA and BAPTA in bovine adrenal chromaffin cells. <b>1999</b> , 439, 27-38	6
1186	Measurement of intracellular calcium concentration using confocal microscopy. <b>1999</b> , 114, 75-91	1
1185	Detection, synthesis, structure, and function of oligo(3-hydroxyalkanoates): contributions by synthetic organic chemists. <b>1999</b> , 25, 217-36	81
1184	A Calcium-Sensitive Magnetic Resonance Imaging Contrast Agent. <b>1999</b> , 121, 1413-1414	252
1183	Diffusion barriers limit the effect of mobile calcium buffers on exocytosis of large dense cored vesicles. <b>1999</b> , 76, 1693-705	37
1182	Regulation of recombinant cardiac cystic fibrosis transmembrane conductance regulator chloride channels by protein kinase C. <b>1999</b> , 76, 1972-87	29
1181	Presynaptic strontium dynamics and synaptic transmission. <b>1999</b> , 76, 2029-42	91
1180	Picosecond Mechanism of Metal-Ion-Sensitive Fluorescence of Phenylimidazoanthraquinone with Azacrown. <b>1999</b> , 103, 660-664	14
1179	Oligoesters of (R)-3-Hydroxybutanoic Acid: Transmembrane Transport of Ca <sup>2+</sup> across Vesicle Bilayers. <b>1999</b> , 32, 574-580	24
1178	Identification of cyk, a cyclin B2 kinase, as a novel calcium/calmodulin-dependent protein kinase II and its role during <i>Xenopus laevis</i> oocyte maturation. <b>1999</b> , 252, 303-18	9
1177	EGF-like module pair 3-4 in vitamin K-dependent protein S: modulation of calcium affinity of module 4 by module 3, and interaction with factor X. <b>1999</b> , 293, 653-65	29
1176	Characterisation of the calcium-binding C-terminal domain of <i>Clostridium perfringens</i> alpha-toxin. <b>1999</b> , 294, 757-70	53
1175	Calcium signaling in the developing <i>Xenopus</i> myotome. <b>1999</b> , 213, 269-82	46
1174	Role of Ca <sup>2+</sup> in apoptosis evoked by human amylin in pancreatic islet $\beta$ -cells. <i>Biochemical Journal</i> , <b>1999</b> , 343, 53-61	3.8 42
1173	Differential modulation of synaptic transmission by calcium chelators in young and aged hippocampal CA1 neurons: evidence for altered calcium homeostasis in aging. <b>1999</b> , 19, 906-15	61
1172	Optical measurements of calcium signals in mammalian presynaptic terminals. <b>1999</b> , 294, 3-19	3
1171	Induction of larval metamorphosis in the ascidian, <i>Halocynthia roretzi</i> by excess potassium ion and by reduced calcium ion. <b>1999</b> , 79, 1143-1144	4

1170	New route to macrocyclic-based phosphonate acetoxymethyl (AM)-esters: synthesis, cell loading, and <sup>31</sup> P NMR. <b>1999</b> ,		
1169	Syringolin-mediated activation of the Pir7b esterase gene in rice cells is suppressed by phosphatase inhibitors. <b>2000</b> , 13, 342-6		19
1168	Estimation of systolic and diastolic free intracellular Ca <sup>2+</sup> by titration of Ca <sup>2+</sup> buffering in the ferret heart. <i>Biochemical Journal</i> , <b>2000</b> , 346, 385	3.8	2
1167	Estimation of systolic and diastolic free intracellular Ca <sup>2+</sup> by titration of Ca <sup>2+</sup> buffering in the ferret heart. <i>Biochemical Journal</i> , <b>2000</b> , 346, 385-391	3.8	14
1166	Use of fluorescence spectroscopy as thermodynamics tool. <b>2000</b> , 323, 459-73		22
1165	Multiple types of calcium signals are associated with cell division in zebrafish embryo. <b>2000</b> , 49, 111-22		22
1164	Luminescence cation sensing by ruthenium(II) complexes containing an iminodiacetic acid-appended ligand. <b>2000</b> , 300-302, 82-90		15
1163	Flow-injection analysis-fluorescence detection for the in vivo on-line determination of calcium in blood with microdialysis sampling. <b>2000</b> , 419, 175-184		18
1162	Novel Ca <sup>2+</sup> -specific receptors derived from 3-formyl-2-hydroxybenzoic acid. <b>2000</b> , 41, 10047-10053		7
1161	New ratiometric fluorescent calcium indicators with moderately attenuated binding affinities. <b>2000</b> , 10, 1515-8		22
1160	Searching for new fluorescence switches: naphthalene-containing metal complexes whose emission can be controlled by pH variations. <b>2000</b> , 300-302, 453-461		10
1159	Inactivation and tachyphylaxis of heat-evoked inward currents in nociceptive primary sensory neurones of rats. <i>Journal of Physiology</i> , <b>2000</b> , 528, 539-49	3.9	36
1158	One-way cross-desensitization between P2X purinoceptors and vanilloid receptors in adult rat dorsal root ganglion neurones. <i>Journal of Physiology</i> , <b>2000</b> , 523 Pt 3, 685-96	3.9	32
1157	Involvement of calcium in the stimulation of phosphatidylcholine secretion in primary cultures of rat type II pneumocytes by Escherichia coli lipopolysaccharide. <b>2000</b> , 205, 39-44		5
1156	Ion mapping in plant cells--methods and applications in signal transduction research. <b>2000</b> , 210, 347-70		43
1155	Functional incorporation of exogenous proteins into the Xenopus oocyte membrane does not depend on intracellular calcium increase. <b>2000</b> , 440, 852-7		2
1154	Voltage-gated potassium channels activated during action potentials in layer V neocortical pyramidal neurons. <b>2000</b> , 83, 70-80		75
1153	Stretch-activated whole cell currents in adult rat cardiac myocytes. <b>2000</b> , 278, H548-57		122

1152	A primary culture of guinea pig gallbladder epithelial cells that is responsive to secretagogues. <b>2000</b> , 279, G866-74		3
1151	Contribution of Ca(2+)-permeable AMPA/KA receptors to glutamate-induced Ca(2+) rise in embryonic lumbar motoneurons in situ. <b>2000</b> , 83, 50-9		25
1150	Force relaxes before the fall of cytosolic calcium in the photomechanical response of rat sphincter pupillae. <b>2000</b> , 279, C274-80		5
1149	Ca(2+)- and metabolism-related changes of mitochondrial potential in voltage-clamped CA1 pyramidal neurons in situ. <b>2000</b> , 83, 1710-21		36
1148	Ischemia but not anoxia evokes vesicular and Ca(2+)-independent glutamate release in the dorsal vagal complex in vitro. <b>2000</b> , 83, 2905-15		33
1147	Measurement and Interpretation of Cytoplasmic [Ca2+] Signals From Calcium-Indicator Dyes. <b>2000</b> , 15, 19-26		6
1146	Activation of p55 tumor necrosis factor-alpha receptor-1 coupled to tumor necrosis factor receptor-associated factor 2 stimulates intercellular adhesion molecule-1 expression by modulating a thapsigargin-sensitive pathway in human tracheal smooth muscle cells. <b>2000</b> , 58, 237-45		51
1145	Role of bicarbonate and chloride in GABA- and glycine-induced depolarization and [Ca2+]i rise in fetal rat motoneurons in situ. <b>2000</b> , 20, 7905-13		43
1144	Conditional and unconditional inhibition of calcium-activated potassium channels by reversible protein phosphorylation. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 3749-54	5-4	44
1143	Sinoatrial node pacemaker activity requires Ca(2+)/calmodulin-dependent protein kinase II activation. <b>2000</b> , 87, 760-7		149
1142	Regulation of intra-Golgi membrane transport by calcium. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 29233-7	5-4	72
1141	Calcium mobilization. <b>2000</b> , 138, 143-8		1
1140	Observation of laser speckle effects and nonclassical kinetics in an elementary chemical reaction. <b>2000</b> , 85, 666-9		26
1139	Modulation of L-type Ca2+ channels by gbeta gamma and calmodulin via interactions with N and C termini of alpha 1C. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 39846-54	5-4	110
1138	pH and calcium regulate the water permeability of aquaporin 0. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 6777-82	5-4	204
1137	Characterization of FalphaR-triggered Ca(2+) signals: role in neutrophil NADPH oxidase activation. <b>2000</b> , 276, 749-55		17
1136	Binding kinetics of calbindin-D(28k) determined by flash photolysis of caged Ca(2+). <b>2000</b> , 79, 3009-18		161
1135	Monitoring presynaptic calcium dynamics in projection fibers by in vivo loading of a novel calcium indicator. <b>2000</b> , 27, 25-32		75

1134	Slow rise of Ca <sup>2+</sup> and slow release of reactive oxygen species are two cross-talked events important in tumour necrosis factor-alpha-mediated apoptosis. <b>2000</b> , 33, 295-304		14
1133	Analysis of Fluorometric Titration Curves. <b>2000</b> , 104, 5388-5395		8
1132	Aminotroponimines as ligands for potential metal-based nitric oxide sensors. <b>2000</b> , 39, 4081-92		80
1131	Analysis of calcium imaging signals from the honeybee brain by nonlinear models. <b>2001</b> , 13, 119-28		24
1130	Calcium-mediated signal transduction in plants: A perspective on the role of Ca <sup>2+</sup> and CDPKs during early plant development. <b>2001</b> , 158, 1237-1256		44
1129	Actin modifies Ca <sup>2+</sup> block of epithelial Na <sup>+</sup> channels in planar lipid bilayers. <b>2001</b> , 80, 2176-86		29
1128	Niflumic acid reduces the hyperpolarization-activated current (I <sub>h</sub> ) in rod photoreceptor cells. <b>2001</b> , 40, 375-81		12
1127	Calcium flux measurements in apoptosis. <b>2001</b> , 66, 229-46		12
1126	Roles of disulfide linkage and calcium ion-mediated interactions in assembly and disassembly of virus-like particles composed of simian virus 40 VP1 capsid protein. <b>2001</b> , 75, 61-72		71
1125	Calcium et sondes bioluminescentes. <b>2001</b> , 195, 261-269		
1124	Paradoxical role of large-conductance calcium-activated K <sup>+</sup> (BK) channels in controlling action potential-driven Ca <sup>2+</sup> entry in anterior pituitary cells. <b>2001</b> , 21, 5902-15		96
1123	Intracellular calcium signals in the surround of rat visual cortex lesions. <b>2001</b> , 12, 3023-8		9
1122	Fluorescence determination of closed-shell rare earth metal ions by reversed-phase HPLC with precolumn derivatization using 8-amino-2-[(2-amino-5-methylphenoxy)methyl]-6-methoxyquinoline-N,N,N',N'-tetraacetate.. <i>Bunseki Kagaku</i> , <b>2001</b> , 50, 113-117	0.2	2
1121	Use of fluorescent Ca <sup>2+</sup> dyes with green fluorescent protein and its variants: problems and solutions. <i>Biochemical Journal</i> , <b>2001</b> , 356, 345-352	3.8	36
1120	Calcium - how and why?. <b>2001</b> , 26, 357-63		81
1119	The role of intracellular Ca <sup>2+</sup> in apoptosis induced by hyperthermia and its enhancement by verapamil in U937 cells. <b>2001</b> , 49, 1369-79		43
1118	Intracellular Ca <sup>2+</sup> stores regulate muscarinic receptor stimulation of phospholipase C in cerebellar granule cells. <i>Journal of Neurochemistry</i> , <b>2000</b> , 74, 818-26	6	10
1117	Activation of the endothelin receptor inhibits the G protein-coupled inwardly rectifying potassium channel by a phospholipase A <sub>2</sub> -mediated mechanism. <i>Journal of Neurochemistry</i> , <b>1999</b> , 72, 1409-16	6	16

1116	Synthesis and characterization of a novel calcium-selective chelator. <b>2001</b> , 42, 7763-7766		9
1115	Sequence-selective peptide detection by small synthetic chemosensors selected from an encoded combinatorial chemosensor library. <b>2001</b> , 11, 1635-8		11
1114	Mag-indo1 affinity for Ca(2+), compartmentalization and binding to proteins: the challenge of measuring Mg(2+) concentrations in living cells. <b>2001</b> , 290, 221-31		21
1113	Delay of intracellular calcium transients using a calcium chelator: application to high-throughput screening of the capsaicin receptor ion channel and G-protein-coupled receptors. <b>2001</b> , 294, 27-35		9
1112	Application of the flow-through analyses of ammonia and calcium in ice core and fresh water by fluorometric detection. <b>2001</b> , 5, 29-36		6
1111	Optical and electrochemical cations recognition and release from N-azacrown carbazoles. <b>2001</b> , 27, 21-34		18
1110	Calcium-calmodulin signalling pathway up-regulates glutamatergic synaptic function in non-pyramidal, fast spiking rat hippocampal CA1 neurons. <i>Journal of Physiology</i> , <b>2001</b> , 533, 407-22	3-9	98
1109	Control of IP(3)-mediated Ca <sup>2+</sup> puffs in <i>Xenopus laevis</i> oocytes by the Ca <sup>2+</sup> -binding protein parvalbumin. <i>Journal of Physiology</i> , <b>2001</b> , 535, 3-16	3-9	27
1108	Iminocoumarin-based low affinity fluorescent Ca <sup>2+</sup> indicators excited with visible light. <i>Cell Calcium</i> , <b>2001</b> , 30, 331-5	4	21
1107	Tetrahydrobiopterin enhances apoptotic PC12 cell death following withdrawal of trophic support. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 9050-8	5-4	33
1106	Structural and functional characterization of the Zn(II) site in dimethylargininase-1 (DDAH-1) from bovine brain. Zn(II) release activates DDAH-1. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 40449-56	5-4	40
1105	A role for calcium in stabilizing transport vesicle coats. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 34148-55	5-4	40
1104	Calcium-Binding Protein Protocols. <b>2002</b> ,		2
1103	Fluorescence Probes Based on Twisted Intramolecular Charge Transfer (TICT) States and Other Adiabatic Photoreactions. <b>2002</b> , 109-149		31
1102	Interaction between polyamines and bacterial outer membranes as investigated with ion-selective electrodes. <b>2002</b> , 46, 1073-9		37
1101	Principles of Fluorescent Probe Design for Ion Recognition. <b>2002</b> , 21-48		18
1100	The recombinant human TRPV6 channel functions as Ca <sup>2+</sup> sensor in human embryonic kidney and rat basophilic leukemia cells. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 36656-64	5-4	49
1099	Interacting effects of N-terminal variation and strex exon splicing on slo potassium channel regulation by calcium, phosphorylation, and oxidation. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 27045-54	5-4	57



1098	Patch-Clamp Techniques Applied To Brain Slices. <b>2002</b> , 135-194		8
1097	Calcium binding to proteins studied via competition with chromophoric chelators. <b>2002</b> , 173, 15-24		30
1096	Alpha-lactalbumin and (calcium-binding) lysozyme. <b>2002</b> , 172, 211-24		5
1095	Lifetime-Based Sensing. <b>2002</b> , 295-334		17
1094	Calcium, calmodulin, and CaMKII requirement for initiation of centrosome duplication in <i>Xenopus</i> egg extracts. <b>2002</b> , 295, 499-502		94
1093	Tryptophan Calmodulin Mutants. <b>2002</b> , 175-209		3
1092	Design and Application of Ion-Channel Sensors Based on Biological and Artificial Receptors. <b>2002</b> , 75, 187-201		50
1091	Subcellular calcium signaling in cardiac cells revealed with fast two-dimensional confocal imaging. <b>2002</b> ,		2
1090	Ultralow calcium requirements of fungi facilitate use of calcium regulating agents to suppress host calcium-dependent defenses, synergizing infection by a mycoherbicide. <b>2002</b> , 50, 6353-60		23
1089	Ortho-substituted polybrominated biphenyls activate respiratory burst in granulocytes from humans. <b>2002</b> , 129, 161-6		13
1088	Bioimaging of nitric oxide. <b>2002</b> , 102, 1235-70		340
1087	Design and synthesis of Mg <sup>2+</sup> -selective fluoroionophores based on a coumarin derivative and application for Mg <sup>2+</sup> measurement in a living cell. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 1423-8	7.8	121
1086	Patch-Clamp Analysis. <b>2002</b> ,		15
1085	Calcium-Binding Protein Protocols: Volume 2: Methods and Techniques. <b>2002</b> ,		1
1084	Direct modulation of volume-regulated anion channels by Ca <sup>2+</sup> chelating agents. <i>FEBS Letters</i> , <b>2002</b> , 521, 152-6	3.8	9
1083	Glucose-induced alterations of intracellular ionized magnesium in human lymphocytes. <b>2002</b> , 71, 2119-35		7
1082	Chemical anoxia activates ATP-sensitive and blocks Ca <sup>2+</sup> -dependent K <sup>+</sup> channels in rat dorsal vagal neurons in situ. <b>2002</b> , 110, 541-54		26
1081	New Classes of MRI Contrast Agents. <b>2002</b> , 123-164		119

1080	Release from Intracellular Stores Is Responsible for Calcium Signaling with von Willebrand Factor in Human Platelets. <b>2002</b> , 87, 699-705		2
1079	Role of platelet-activating factor in phosphatidylcholine secretion in primary cultures of rat type II pneumocytes. <b>2002</b> , 67, 197-208		1
1078	Measuring zinc in living cells. A new generation of sensitive and selective fluorescent probes. <i>Cell Calcium</i> , <b>2002</b> , 31, 245-51	4	215
1077	Role of antioxidants in the O-hydroxyethyl-D-(Ser)8-cyclosporine A (SDZ IMM125)-induced apoptosis in rat hepatocytes. <b>2002</b> , 64, 1725-36		6
1076	Three-dimensional structure of phosphorylase kinase at 22 Å resolution and its complex with glycogen phosphorylase b. <b>2002</b> , 10, 33-41		19
1075	Simultaneously multiply-configurable or superposed molecular logic systems composed of ICT (internal charge transfer) chromophores and fluorophores integrated with one- or two-ion receptors. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 4935-45	4.8	204
1074	Approaches to studying cellular signaling: a primer for morphologists. <b>2002</b> , 269, 123-39		11
1073	Metal ion chelation in neurodegenerative disorders. <b>2002</b> , 56, 300-309		36
1072	In vivo molecular imaging. <b>2002</b> , 39, 231-8		46
1071	Regulation of tryptophan hydroxylase by cyclic AMP, calcium, norepinephrine, and light in cultured chick pineal cells. <i>Journal of Neurochemistry</i> , <b>1996</b> , 67, 242-50	6	18
1070	Cytosolic calmodulin is increased in SK-N-SH human neuroblastoma cells due to release of calcium from intracellular stores. <i>Journal of Neurochemistry</i> , <b>1998</b> , 70, 139-46	6	11
1069	Extra activation component of calcium release in frog muscle fibres. <i>Journal of Physiology</i> , <b>2002</b> , 542, 867-86	3.9	13
1068	Stoichiometry of Na <sup>+</sup> -Ca <sup>2+</sup> exchange is 3:1 in guinea-pig ventricular myocytes. <i>Journal of Physiology</i> , <b>2002</b> , 545, 453-61	3.9	43
1067	Calcium-pump inhibitors induce functional surface expression of Delta F508-CFTR protein in cystic fibrosis epithelial cells. <b>2002</b> , 8, 485-92		179
1066	Calcium and signal transduction. <b>2002</b> , 145-169		34
1065	Intracellular magnesium and magnesium buffering. <b>2002</b> , 15, 251-9		137
1064	Effects of beta-endorphin and Naloxone on in vitro maturation of bovine oocytes. <b>2002</b> , 63, 210-22		29
1063	A confocal study of mechanism of 5-hydroxytryptamine induced intracellular calcium dynamics in cultured rat stomach fundus smooth muscle cells with a new Ca <sup>2+</sup> indicator STDIn-AM. <b>2002</b> , 45, 463		

1062	Fluorescent Complexes for Biomedical Applications. <b>2003</b> , 913-944		27
1061	Crystal structure of the CUB1-EGF-CUB2 region of mannan-binding protein associated serine protease-2. <i>EMBO Journal</i> , <b>2003</b> , 22, 2348-59	13	91
1060	Changes in intracellular calcium transients and LTP in the surround of visual cortex lesions in rats. <b>2003</b> , 990, 120-8		14
1059	Effects of calcium buffers and calbindin-D28k upon histamine-induced calcium oscillations and calcium waves in HeLa cells. <i>Cell Calcium</i> , <b>2003</b> , 34, 131-44	4	16
1058	Do we know the absolute values of intracellular free calcium concentration?. <i>Cell Calcium</i> , <b>2003</b> , 34, 511-4		7
1057	Skeletal muscle myosin cross-bridge cycling is necessary for myofibrillogenesis. <b>2003</b> , 55, 61-72		35
1056	New phosphorus podands labelled by a cyanine probe: synthesis and fluorescence enhancement with cation complexation. <b>2003</b> , 56, 231-238		10
1055	Noradrenaline- and melatonin-mediated regulation of pigment aggregation in fish melanophores. <b>2003</b> , 16, 59-64		50
1054	Buffer kinetics shape the spatiotemporal patterns of IP <sub>3</sub> -evoked Ca <sup>2+</sup> signals. <i>Journal of Physiology</i> , <b>2003</b> , 553, 775-88	3.9	114
1053	Calcium signalling during embryonic development. <b>2003</b> , 4, 539-51		173
1052	Looking forward to seeing calcium. <b>2003</b> , 4, 579-86		171
1051	Effect of L-arginine analogs and a calcium chelator on nitric oxide (NO) production by <i>Leishmania</i> sp. <b>2003</b> , 18, 445-52		14
1050	Mn <sup>2+</sup> binding to factor VIII subunits and its effect on cofactor activity. <i>Biochemistry</i> , <b>2003</b> , 42, 145-53	3.2	8
1049	Buffers and oscillations in intracellular Ca <sup>2+</sup> dynamics. <b>2003</b> , 84, 28-41		71
1048	Calcium-dependent maintenance of agrin-induced postsynaptic specializations. <b>2003</b> , 122, 659-68		15
1047	Selective regulation of ICAM-1 and RANTES gene expression after ICAM-1 ligation on human renal fibroblasts. <b>2003</b> , 14, 116-27		32
1046	Platelet hyperreactivity in hemodialysis patients with frequently occluded vascular access. <b>2004</b> , 92, 621-6		4
1045	Localized IP <sub>3</sub> -evoked Ca <sup>2+</sup> release activates a K <sup>+</sup> current in primary vagal sensory neurons. <b>2004</b> , 91, 2344-52		16

1044	Presynaptic calcium measurements at physiological temperatures using a new class of dextran-conjugated indicators. <b>2004</b> , 92, 591-9	37
1043	Peroxynitrite induces apoptosis in rat aortic smooth muscle cells: possible relation to vascular diseases. <b>2004</b> , 229, 264-9	23
1042	Measurement of Ionic Currents and Intracellular Ca <sup>2+</sup> Using Patch Clamp and Fluorescence Microscopy Techniques. <b>2004</b> , 569-582	
1041	Fluorescent Sensors. <b>2004</b> , 572-578	4
1040	Photochemical Sensors. <b>2004</b> , 1053-1059	
1039	Nuclear factor of activated T cells (NFAT) is involved in the depolarization-induced activation of growth hormone-releasing hormone gene transcription in vitro. <b>2004</b> , 18, 3011-9	19
1038	The coumarin moiety as chromophore of fluorescent ion indicators in biological systems. <b>2004</b> , 10, 3835-52	99
1037	Hypo-osmotic stress activates Plc1p-dependent phosphatidylinositol 4,5-bisphosphate hydrolysis and inositol Hexakisphosphate accumulation in yeast. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 5216-26 <sup>5-4</sup>	36
1036	Nonclassical kinetics of an elementary A+B-->C reaction-diffusion system showing effects of a speckled initial reactant distribution and eventual self-segregation: experiments. <b>2004</b> , 69, 021103	21
1035	Differential modulation of L-type Ca <sup>2+</sup> current by SR Ca <sup>2+</sup> release at the T-tubules and surface membrane of rat ventricular myocytes. <b>2004</b> , 95, e1-7	70
1034	Measurement of changes in intracellular calcium during apoptosis. <b>2004</b> , 282, 117-30	6
1033	Chelation of cellular calcium modulates hypoxia-inducible gene expression through activation of hypoxia-inducible factor-1alpha. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 44976-86	5-4 45
1032	Cellular deflagellation. <b>2004</b> , 233, 47-91	72
1031	Calcium/calmodulin kinase IV pathway is involved in the transcriptional regulation of the corticotropin-releasing hormone gene promoter in neuronal cells. <b>2004</b> , 33, 639-49	21
1030	Hypocretin/orexin innervation and excitation of identified septohippocampal cholinergic neurons. <b>2004</b> , 24, 3527-36	124
1029	Protons block BK channels by competitive inhibition with K <sup>+</sup> and contribute to the limits of unitary currents at high voltages. <b>2004</b> , 123, 305-19	35
1028	The role of sodium ions in the pathogenesis of skeletal muscle damage in broiler chickens. <b>2004</b> , 83, 701-6	23
1027	Calcium-independent cytoskeleton disassembly induced by BAPTA. <b>2004</b> , 271, 3255-64	29

1026	Irregular dimerization of guanylate cyclase-activating protein 1 mutants causes loss of target activation. <b>2004</b> , 271, 3785-93		33
1025	The <i>Helicobacter pylori</i> VacA cytotoxin activates RBL-2H3 cells by inducing cytosolic calcium oscillations. <b>2005</b> , 7, 191-8		39
1024	An EF-hand in the sodium channel couples intracellular calcium to cardiac excitability. <b>2004</b> , 11, 219-25		118
1023	Regulation of L-type calcium current by intracellular magnesium in rat cardiac myocytes. <i>Journal of Physiology</i> , <b>2004</b> , 555, 383-96	3.9	38
1022	Bradykinin decreases K(+) and increases Cl(-) conductances in vagal afferent neurones of the guinea pig. <i>Journal of Physiology</i> , <b>2004</b> , 558, 513-26	3.9	44
1021	Ca <sup>2+</sup> dependency of 'Ca <sup>2+</sup> -independent' exocytosis in SPOC1 airway goblet cells. <i>Journal of Physiology</i> , <b>2004</b> , 559, 555-65	3.9	27
1020	Mechanisms of hydroxyl radical-induced contraction of rat aorta. <b>2004</b> , 499, 171-8		24
1019	Fluorescence detection of redox-sensitive metals in neuronal culture: focus on iron and zinc. <b>2004</b> , 1012, 27-36		14
1018	Influence of HSA on the properties of OA/OAM monolayers and the growth of calcium oxalate. <b>2004</b> , 234, 35-41		19
1017	Catecholamine-induced regulation in vitro and ex vivo of intralymphocyte ionized magnesium. <b>2004</b> , 199, 163-71		16
1016	Calcium transients regulate patterned actin assembly during myofibrillogenesis. <b>2004</b> , 229, 231-42		20
1015	Calcium signal-dependent plasticity of neuronal excitability developed postnatally. <b>2004</b> , 61, 277-87		51
1014	Fluorescent detection of zinc in biological systems: recent development on the design of chemosensors and biosensors. <b>2004</b> , 248, 205-229		859
1013	Development of a new fluorescent probe for transition metal cations based upon fluorescence resonance energy transfer. <b>2004</b> , 501, 45-54		6
1012	Hypoxic Pulmonary Vasoconstriction. <b>2004</b> ,		5
1011	Calcium Channel Blockers. <b>2004</b> ,		14
1010	Inhibition of mammalian RNA synthesis by the cytoplasmic Ca <sup>2+</sup> buffer BAPTA. Analyses of [3H]uridine incorporation and stress-dependent transcription. <i>Biochemistry</i> , <b>2004</b> , 43, 9576-82	3.2	8
1009	Measurement of intracellular ions by flow cytometry. <b>2004</b> , Chapter 5, Unit 5.5		23

1008	Apoptosis Methods and Protocols. <b>2004</b> ,		14
1007	Switching between molecular switch types by module rearrangement: Ca <sup>2+</sup> -enabled, H <sup>+</sup> -driven 'Off-On-Off', H <sup>+</sup> -driven YES and PASS 0 as well as H <sup>+</sup> , Ca <sup>2+</sup> -driven AND logic operations. <i>Chemical Communications</i> , <b>2004</b> , 2048-9	5.8	72
1006	Ca <sup>2+</sup> -dependent interaction of BAPTA with phospholipids. <i>FEBS Letters</i> , <b>2004</b> , 576, 41-5	3.8	15
1005	The development of Ca <sup>2+</sup> indicators: a breakthrough in pharmacological research. <b>2004</b> , 25, 172-4		7
1004	Ca(2+)-calmodulin signalling pathway up-regulates GABA synaptic transmission through cytoskeleton-mediated mechanisms. <b>2004</b> , 127, 637-47		49
1003	Effects of an intracellular Ca(2+) chelator on insulin resistance and hypertension in high-fat-fed rats and spontaneously hypertensive rats. <b>2004</b> , 53, 269-72		7
1002	Phospholipase C involvement in activation of the muscarinic receptor-operated cationic current in Guinea pig ileal smooth muscle cells. <b>2004</b> , 95, 203-13		21
1001	Regulation of main olfactory bulb mitral cell excitability by metabotropic glutamate receptor mGluR1. <b>2004</b> , 92, 3085-96		55
1000	Calcium-induced tertiary structure modifications of endo-beta-1,3-glucanase from <i>Pyrococcus furiosus</i> in 7.9 M guanidinium chloride. <i>Biochemical Journal</i> , <b>2005</b> , 386, 515-24	3.8	6
999	Bioanalysis. <b>2005</b> , 1-147		
998	Mechanisms of TRH-induced GH release (paradoxical response) in human somatotroph adenoma cells. <b>2005</b> , 52, 763-7		6
997	Mechanism of adrenomedullin-induced prolactin release from human prolactin-releasing adenoma cells. <b>2005</b> , 52, 769-73		3
996	Mechanism of D(2) agonist-induced inhibition of GH secretion from human GH-secreting adenoma cells. <b>2005</b> , 52, 775-9		4
995	Continuous in vivo monitoring of blood diffusible calcium using on-line microdialysis sampling coupled with flame atomic absorption spectrometry. <b>2005</b> , 21, 225-9		10
994	Involvement of Ca <sup>2+</sup> /calmodulin-dependent protein kinase II in heparin-stimulated release of hepatic lipase activity from rat hepatocytes. <b>2005</b> , 28, 409-12		8
993	Theoretical analysis on ratiometric fluorescent indicators caused biased estimates of intracellular free calcium concentrations. <b>2005</b> , 78, 179-87		3
992	Luminescent sensors and switches in the early 21st century. <b>2005</b> , 61, 8551-8588		1008
991	Separation of Amines as their 6-Methyl-2-phenyl-4-quinolinecarboxylic Acid N-Hydroxysuccinimide Ester Derivatives by High Performance Liquid Chromatography. <b>2005</b> , 61, 31-36		1

990	Molecular switch based on a biologically important redox reaction. <b>2005</b> , 109, 130-7		54
989	Clinical pharmacology of DP-b99 in healthy volunteers: first administration to humans. <b>2005</b> , 60, 7-16		20
988	Affinity of S100A1 protein for calcium increases dramatically upon glutathionylation. <b>2005</b> , 272, 2557-65		44
987	Calcium signalling: past, present and future. <i>Cell Calcium</i> , <b>2005</b> , 38, 161-9	4	183
986	Inhibition of phospholipase C activity in Drosophila photoreceptors by 1,2-bis(2-aminophenoxy)ethane N,N,N',N'-tetraacetic acid (BAPTA) and di-bromo BAPTA. <i>Cell Calcium</i> , <b>2005</b> , 38, 547-56	4	13
985	Lysophosphatidic acid stimulates cell proliferation in rat chondrocytes. <b>2005</b> , 70, 1764-71		23
984	Low UVA doses activate the transcription factor NFAT in human fibroblasts by a calcium-calcineurin pathway. <b>2005</b> , 39, 1629-37		18
983	Synthesis of pH Sensitive Organic-Inorganic Polymer Hybrids. <b>2005</b> , 53, 89-95		11
982	Early ABA Signaling Events in Guard Cells. <b>2005</b> , 24, 296-307		45
981	Photochemical and complexation studies for new fluorescent and colored chelator. <b>2005</b> , 6, 633-643		7
980	Finding of Optimal Calcium Ion Probes for Fluorescence Lifetime Measurement. <b>2005</b> , 12, 415-419		14
979	The Anthracen-9-ylmethoxy unit: an underperforming motif within the fluorescent PET (photoinduced electron transfer) sensing framework. <b>2005</b> , 15, 769-75		35
978	1,2-Bis(2-aminophenoxy)ethane. <b>2005</b> , 61, o3014-o3016		1
977	Enhanced response to caffeine and 4-chloro-m-cresol in malignant hyperthermia-susceptible muscle is related in part to chronically elevated resting $[Ca^{2+}]_i$ . <b>2005</b> , 288, C606-12		23
976	Fluorescent measurement of $[Ca^{2+}]_i$ : basic practical considerations. <b>2005</b> , 312, 3-36		2
975	Calcium Signaling Protocols. <b>2005</b> ,		1
974	Transient receptor potential vanilloid type 1 activation down-regulates voltage-gated calcium channels through calcium-dependent calcineurin in sensory neurons. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 18142-51	5-4	94
973	G protein-coupled receptor activation rapidly stimulates focal adhesion kinase phosphorylation at Ser-843. Mediation by $Ca^{2+}$ , calmodulin, and $Ca^{2+}$ /calmodulin-dependent kinase II. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 24212-20	5-4	44

972	Calcium mobilization stimulates Dictyostelium discoideum shear-flow-induced cell motility. <b>2005</b> , 118, 3445-57		39
971	Ion regulation of homotypic vacuole fusion in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 16754-62	5.4	26
970	Association of plasminogen with dipeptidyl peptidase IV and Na <sup>+</sup> /H <sup>+</sup> exchanger isoform NHE3 regulates invasion of human 1-LN prostate tumor cells. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 27173-81	5.4	15
969	Ca <sup>2+</sup> release from host intracellular stores and related signal transduction during <i>Campylobacter jejuni</i> 81-176 internalization into human intestinal cells. <b>2005</b> , 151, 3097-3105		42
968	How do cell walls regulate plant growth?. <b>2005</b> , 56, 2275-85		108
967	Probes and Sensors for Cations. <b>2005</b> , 1-57		9
966	Factor Xa stimulates fibroblast procollagen production, proliferation, and calcium signaling via PAR1 activation. <b>2005</b> , 304, 16-27		81
965	Confocal microscopy: theory and applications for cellular signaling. <b>2005</b> , 312, 57-85		2
964	Cation modulation of carbonyldipyrinone (CDP) fluorescence: emission-ratiometric sensing of calcium. <b>2005</b> , 15, 2908		12
963	Synthesis and spectroscopic characterisation of BODIPY based fluorescent off-on indicators with low affinity for calcium. <b>2005</b> , 3, 2755-61		68
962	Synthesis of stilbene carboxylic acids as scaffolds for calcium sensors. <i>Chemical Communications</i> , <b>2005</b> , 4845-7	5.8	10
961	Progress toward the determination of Sr <sup>2+</sup> in highly basic solutions using imaging optical fiber sensor arrays. <b>2005</b> , 15, 4361		4
960	Selective calcium ion sensing with a bichromophoric squaraine foldamer. <b>2005</b> , 127, 3156-64		167
959	Unfolding energetics of G-alpha-actin: a discrete intermediate can be re-folded to the native state by CCT. <b>2005</b> , 353, 385-96		18
958	Polychrome labeling of bone with seven different fluorochromes: enhancing fluorochrome discrimination by spectral image analysis. <b>2005</b> , 37, 441-5		97
957	Ca <sup>2+</sup> - and Ba <sup>2+</sup> -selective receptors based on site-selective transmetalation of multinuclear polyoxime-zinc(II) complexes. <b>2005</b> , 127, 540-1		116
956	Responsive lanthanide luminescent cyclen complexes: from switching/sensing to supramolecular architectures. <i>Chemical Communications</i> , <b>2005</b> , 3114-31	5.8	272
955	Single molecular multianalyte (Ca <sup>2+</sup> , Mg <sup>2+</sup> ) fluorescent probe and applications to bioimaging. <b>2005</b> , 127, 10798-9		204



954	Helical metallohost-guest complexes via site-selective transmetalation of homotrimeric complexes. <b>2006</b> , 128, 15765-74		140
953	A prototype for the chemosensing of Ba <sup>2+</sup> based on self-assembling fluorescence enhancement. <b>2006</b> , 8, 915-8		53
952	Chemiluminescence as an analytical tool in cell biology and medicine. <b>1985</b> , 31, 317-416		50
951	Ensemble and single-molecule fluorescence spectroscopy of a calcium-ion indicator dye. <b>2006</b> , 110, 7057-66		12
950	Calcium chelation improves spatial learning and synaptic plasticity in aged rats. <b>2006</b> , 197, 291-300		39
949	In rat hepatocytes, different adenosine receptor subtypes use different secondary messengers to increase the rate of ureagenesis. <b>2006</b> , 79, 382-90		7
948	Anti-recoverin antibodies induce an increase in intracellular calcium, leading to apoptosis in retinal cells. <b>2006</b> , 26, 146-53		58
947	Signaling mechanisms of down-regulation of voltage-activated Ca <sup>2+</sup> channels by transient receptor potential vanilloid type 1 stimulation with olvanil in primary sensory neurons. <b>2006</b> , 141, 407-19		35
946	Phosphorylation of extracellular signal-related protein kinase is required for rapid facilitation of heat-induced currents in rat dorsal root ganglion neurons. <b>2006</b> , 143, 253-63		27
945	. <b>2006</b> ,		31
944	Involvement of transient receptor potential vanilloid-1 in calcium current inhibition by capsaicin. <b>2006</b> , 17, 145-9		5
943	Sensing Reactive Oxygen and Nitrogen Species Using Selective Fluorescent Probes. <b>2006</b> , 2, 409		
942	Calcium-regulated photoproteins of marine coelenterates. <b>2006</b> , 40, 355-367		47
941	Adenylate cyclase 5 and KCa1.1 channel are required for EGFR up-regulation of PCNA in native contractile rat basilar artery smooth muscle. <i>Journal of Physiology</i> , <b>2006</b> , 570, 73-84	3.9	18
940	Calmodulin kinase II accelerates L-type Ca <sup>2+</sup> current recovery from inactivation and compensates for the direct inhibitory effect of [Ca <sup>2+</sup> ] <sub>i</sub> in rat ventricular myocytes. <i>Journal of Physiology</i> , <b>2006</b> , 574, 509-18	3.9	31
939	Analysis of the performance of interferometry, surface plasmon resonance and luminescence as biosensors and chemosensors. <b>2006</b> , 569, 1-20		108
938	A novel ultra-sensing composed Langmuir-Blodgett membrane for selective calcium determination in aqueous solutions. <b>2006</b> , 114, 19-27		14
937	Palladium catalyzed synthesis of Ca <sup>2+</sup> indicators with aryl bithiophene and terthiophene fluorophores. <b>2006</b> , 62, 684-690		4

936	Patching the glia reveals the functional organisation of the brain. <b>2006</b> , 453, 411-20		33
935	Recent advances in fluorescent probes for the detection of reactive oxygen species. <b>2006</b> , 386, 532-43		266
934	Cerebellar granule cell death induced by aluminum. <i>Neurotoxicity Research</i> , <b>2006</b> , 9, 297-304	4-3	20
933	ICPBC and C12-ICPBC: two new red emitting, fluorescent Ca <sup>2+</sup> indicators excited with visible light. <i>Cell Calcium</i> , <b>2006</b> , 39, 3-11	4	10
932	DM-nitrophen AM is caged magnesium. <i>Cell Calcium</i> , <b>2006</b> , 39, 471-473	4	21
931	Critical review of the methods used to measure the apparent dissociation constant and ligand purity in Ca <sup>2+</sup> and Mg <sup>2+</sup> buffer solutions. <b>2006</b> , 92, 333-70		16
930	Regulation of protein phosphatase 2A-mediated recruitment of IQGAP1 to beta1 integrin by EGF through activation of Ca <sup>2+</sup> /calmodulin-dependent protein kinase II. <b>2006</b> , 208, 213-9		27
929	Inhibition of the renal betaine transporter by calcium ions. <b>2006</b> , 291, F305-13		8
928	Cch1 mediates calcium entry in <i>Cryptococcus neoformans</i> and is essential in low-calcium environments. <b>2006</b> , 5, 1788-96		59
927	Ca <sup>2+</sup> influx through mechanosensitive channels inhibits neurite outgrowth in opposition to other influx pathways and release from intracellular stores. <b>2006</b> , 26, 5656-64		86
926	Endogenous and exogenous Ca <sup>2+</sup> buffers differentially modulate Ca <sup>2+</sup> -dependent inactivation of Ca(v)2.1 Ca <sup>2+</sup> channels. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 4691-8	5-4	28
925	Zinc Metalloneurochemistry: Physiology, Pathology, and Probes. <b>2006</b> , 321-370		12
924	Flubendiamide, a novel Ca <sup>2+</sup> channel modulator, reveals evidence for functional cooperation between Ca <sup>2+</sup> pumps and Ca <sup>2+</sup> release. <b>2006</b> , 69, 1733-9		66
923	Implication of phosphorylation of the myosin II regulatory light chain in insulin-stimulated GLUT4 translocation in 3T3-F442A adipocytes. <b>2006</b> , 38, 180-9		17
922	Ketoconazole-evoked [Ca <sup>2+</sup> ] <sub>i</sub> rises and non-Ca <sup>2+</sup> -triggered cell death in rabbit corneal epithelial cells (SIRC). <b>2007</b> , 27, 295-307		2
921	A fundamental system of cellular energy homeostasis regulated by PGC-1alpha. <b>2007</b> , 104, 7933-8		168
920	Calcium-dependent regulation of NEMO nuclear export in response to genotoxic stimuli. <b>2007</b> , 27, 497-509		30
919	Phytosphingosine-1-phosphate stimulates chemotactic migration of L2071 mouse fibroblasts via pertussis toxin-sensitive G-proteins. <b>2007</b> , 39, 185-94		13

918	Role of TRPV1 and intracellular Ca <sup>2+</sup> in excitation of cardiac sensory neurons by bradykinin. <b>2007</b> , 293, R276-83	20
917	Synthesis and characterization of a new red-emitting Ca <sup>2+</sup> indicator, calcium ruby. <b>2007</b> , 9, 2629-32	27
916	Roger Tsien: bringing color to cell biology. A passion for chemistry, color, and conversations with cells is what drives Roger Tsien. Interview by Ruth Williams. <b>2007</b> , 179, 6-8	4
915	Nanodomains of single Ca <sup>2+</sup> channels contribute to action potential repolarization in cortical neurons. <b>2007</b> , 27, 483-95	59
914	Distributed network actions by nicotine increase the threshold for spike-timing-dependent plasticity in prefrontal cortex. <b>2007</b> , 54, 73-87	205
913	Protein tyrosine dephosphorylation during copper-induced cell death in rice roots. <b>2007</b> , 69, 55-62	15
912	The tripartite synapse: roles for gliotransmission in health and disease. <b>2007</b> , 13, 54-63	617
911	An ensemble and single-molecule fluorescence spectroscopy investigation of Calcium Green 1, a calcium-ion sensor. <b>2007</b> , 17, 739-48	13
910	Patch-Clamp Analysis. <i>Neuromethods</i> , <b>2007</b> ,	0.4 16
909	Mitochondria. <b>2007</b> ,	4
908	"Turn-on" fluorescent sensor for the selective detection of zinc ion by a sterically-encumbered bipyridyl-based receptor. <i>Chemical Communications</i> , <b>2007</b> , 4641-3	5.8 63
907	Tamoxifen-induced [Ca <sup>2+</sup> ] <sub>i</sub> rises and Ca <sup>2+</sup> -independent cell death in human oral cancer cells. <b>2007</b> , 27, 353-67	13
906	Combined voltage and calcium epifluorescence imaging in vitro and in vivo reveals subthreshold and suprathreshold dynamics of mouse barrel cortex. <b>2007</b> , 97, 3751-62	147
905	Calcium signaling in neuronal motility. <b>2007</b> , 23, 375-404	225
904	Calcium Storage and Homeostasis in <i>Toxoplasma gondii</i> . <b>2007</b> , 245-263	3
903	. <b>2007</b> ,	93
902	A two-photon fluorescent probe for calcium waves in living tissue. <b>2007</b> , 46, 7445-8	99
901	A Two-Photon Fluorescent Probe for Calcium Waves in Living Tissue. <b>2007</b> , 119, 7589-7592	14

900	Zinc regulates the ability of Cdc25C to activate MPF/cdk1. <b>2007</b> , 213, 98-104	27
899	A novel 2D framework containing M2L2 24-membered rings interconnected through secondary NH <sub>2</sub> bonds. <b>2007</b> , 10, 163-165	4
898	Ultra-sensitive Flow Injection Analysis (FIA) determination of calcium in ice cores at ppt level. <b>2007</b> , 594, 219-25	9
897	From complexation to computation: Recent progress in molecular logic. <b>2007</b> , 360, 751-764	58
896	A novel blue luminescent high-spin iron(III) complex with interlayer OH <sup>-</sup> /Cl <sup>-</sup> bridging: Synthesis, structure and spectroscopic studies. <b>2007</b> , 26, 3617-3624	62
895	N,N,N',N'-Tetrakis(carboxymethyl)-2,2'-(ethylenedioxy)dianilinium dichloride dihydrate. <b>2007</b> , 63, o754-o756	1
894	Group I metabotropic glutamate receptors enable two distinct forms of long-term depression in the rat dentate gyrus in vivo. <b>2007</b> , 25, 3264-75	30
893	Neurokinins robustly activate the majority of septohippocampal cholinergic neurons. <b>2008</b> , 27, 114-22	12
892	Tertiary structure in 7.9 M guanidinium chloride--the role of Glu53 and Asp287 in <i>Pyrococcus furiosus</i> endo-beta-1,3-glucanase. <b>2007</b> , 274, 6167-79	3
891	Regulation of nicotinic acetylcholine receptor desensitization by Ca <sup>2+</sup> . <b>2007</b> , 97, 93-101	20
890	Design of fluorescent materials for chemical sensing. <b>2007</b> , 36, 993-1017	803
889	Mechanisms of carvedilol-induced [Ca <sup>2+</sup> ] <sub>i</sub> rises and death in human hepatoma cells. <b>2007</b> , 376, 185-94	9
888	Towards extracellular Ca <sup>2+</sup> sensing by MRI: synthesis and calcium-dependent 1H and 17O relaxation studies of two novel bismacrocylic Gd <sup>3+</sup> complexes. <b>2008</b> , 13, 35-46	58
887	Reporting neural activity with genetically encoded calcium indicators. <b>2008</b> , 36, 69-86	103
886	Ca(2+)-dependent inactivation of P-type calcium channels in nerve terminals. <i>Journal of Neurochemistry</i> , <b>1994</b> , 62, 2283-91	6 14
885	Functional supramolecular systems with highly cooperative and responding properties. <b>2008</b> , 8, 240-51	35
884	Two-photon fluorescent probes for long-term imaging of calcium waves in live tissue. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 2075-83	4.8 50
883	A novel method for the detection of viable human pancreatic beta cells by flow cytometry using fluorophores that selectively detect labile zinc, mitochondrial membrane potential and protein thiols. <b>2008</b> , 73, 615-25	31

882 Effect of clomiphene on  $[Ca^{2+}]_i$  rises and cell viability in rabbit corneal epithelial cells. **2008**, 69, 272-278

881 Calcium and signal transduction. **2008**, 36, 175-80 13

880 A fluorescent chemosensor for calcium with excellent storage stability in water. **2008**, 611, 197-204 38

879 Metals in neurobiology: probing their chemistry and biology with molecular imaging. **2008**, 108, 1517-49 1686

878 Langmuir-Blodgett composite films for the selective determination of calcium in aqueous solutions. **2008**, 82, 1334-1342 4

877 Calcium microdomains at presynaptic active zones of vertebrate hair cells unmasked by stochastic deconvolution. *Cell Calcium*, **2008**, 44, 158-68 4 17

876 Gamma-radiation induces apoptosis via sarcoplasmic reticulum in guinea pig ileum smooth muscle cells. **2008**, 590, 20-8 7

875 Bile canalicular contraction in the isolated hepatocyte doublet is related to an increase in cytosolic free calcium ion concentration. **1988**, 8, 178-83 21

874 Facile synthesis and relaxation properties of novel bispolyazamacrocyclic  $Gd^{3+}$  complexes: an attempt towards calcium-sensitive MRI contrast agents. **2008**, 47, 1370-81 62

873 Plasmodium in the postgenomic era: new insights into the molecular cell biology of malaria parasites. **2008**, 266, 85-156 55

872 Mechanisms of AM404-induced  $[Ca^{2+}]_i$  rise and death in human osteosarcoma cells. **2008**, 179, 53-8 7

871 A cytoplasmic  $Ca^{2+}$  functional assay for identifying and purifying endogenous cell signaling peptides in Arabidopsis seedlings: identification of AtRALF1 peptide. *Biochemistry*, **2008**, 47, 6311-21 3-2 65

870 Fluorescence in Living Systems: Applications in Chemical Biology. **2008**, 1

869 Modulation of cardiac troponin C function by the cardiac-specific N-terminus of troponin I: influence of PKA phosphorylation and involvement in cardiomyopathies. **2008**, 375, 735-51 41

868 Redox regulation of interleukin-4 signaling. **2008**, 29, 551-64 84

867 Optical methods in calcium signaling. **2008**, 46, 141-2

866 Synthesis and solution thermodynamic study of rigidified and functionalised EGTA derivatives. **2008**, 6, 2361-8 19

865 Bright ideas for chemical biology. **2008**, 3, 142-55 937

864	Diethylstilbestrol-induced estrogen receptor-dependent $[Ca^{2+}]_i$ rises and apoptosis in Chinese hamster ovary (CHO) cells. <b>2008</b> , 28, 307-22	3
863	Ester bonds in prodrugs. <b>2008</b> , 3, 203-6	91
862	Neurobiology with caged calcium. <b>2008</b> , 108, 1603-13	114
861	Econazole-evoked $[Ca^{2+}]_i$ rise and non- $Ca^{2+}$ -triggered cell death in rabbit corneal epithelial cells (SIRC). <b>2008</b> , 28, 567-79	2
860	Elongation factor 3, EF3, associates with the calcium channel Cch1 and targets Cch1 to the plasma membrane in <i>Cryptococcus neoformans</i> . <b>2008</b> , 7, 1118-26	13
859	Excitatory effects of the puberty-initiating peptide kisspeptin and group I metabotropic glutamate receptor agonists differentiate two distinct subpopulations of gonadotropin-releasing hormone neurons. <b>2008</b> , 28, 8003-13	98
858	Melittin-induced $[Ca^{2+}]_i$ increases and subsequent death in canine renal tubular cells. <b>2008</b> , 27, 417-24	15
857	The endocannabinoid anandamide inhibits cholangiocarcinoma growth via activation of the noncanonical Wnt signaling pathway. <b>2008</b> , 295, G1150-8	57
856	Calreticulin inhibits commitment to adipocyte differentiation. <b>2008</b> , 182, 103-16	49
855	$Ca^{2+}$ signals coordinate zygotic polarization and cell cycle progression in the brown alga <i>Fucus serratus</i> . <b>2008</b> , 135, 2173-81	26
854	Synaptic ribbon enables temporal precision of hair cell afferent synapse by increasing the number of readily releasable vesicles: a modeling study. <b>2008</b> , 100, 1724-39	54
853	"cAMP sponge": a buffer for cyclic adenosine 3', 5'-monophosphate. <b>2009</b> , 4, e7649	27
852	Regulation of $Ca^{2+}$ signaling with particular focus on mast cells. <b>2009</b> , 29, 155-86	70
851	Calcium-induced calcium release in skeletal muscle. <b>2009</b> , 89, 1153-76	202
850	Fendiline-evoked $[Ca^{2+}]_i$ rises and non- $Ca^{2+}$ -triggered cell death in human oral cancer cells. <b>2009</b> , 28, 41-8	16
849	Quercetin stimulates $Na^+/K^+/2Cl^-$ cotransport via PTK-dependent mechanisms in human airway epithelium. <b>2009</b> , 41, 688-95	20
848	Effect of thimerosal on $Ca^{2+}$ movement and viability in human oral cancer cells. <b>2009</b> , 28, 301-8	12
847	Membrane localization of RasGRP1 is controlled by an EF-hand, and by the GEF domain. <b>2009</b> , 1793, 447-61	14

846	Measuring mitochondrial and cytoplasmic Ca <sup>2+</sup> in EGFP expressing cells with a low-affinity calcium Ruby and its dextran conjugate. <i>Cell Calcium</i> , <b>2009</b> , 45, 275-83	4	13
845	Bis(4'-dibutylaminostyryl)benzene: spectroscopic behavior upon protonation or methylation. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 13075-81	4.8	29
844	Modulation of AMPA receptor-mediated ion current by pituitary adenylate cyclase-activating polypeptide (PACAP) in CA1 pyramidal neurons from rat hippocampus. <b>2009</b> , 19, 99-109		37
843	Synthesis, Characterization and Biological Activities of a New Fluorescent Indicator for the Intracellular Calcium Ions. <b>2009</b> , 27, 1169-1173		
842	Nonylphenol-induced cytosolic Ca <sup>2+</sup> elevation and death in renal tubular cells. <b>2009</b> , 70, 370-377		
841	Shine a light: imaging the immune system. <b>2009</b> , 39, 1188-202		5
840	Specific Ca <sup>2+</sup> Fluorescent Sensor: Signaling by Conformationally Induced PET Suppression in a Bichromophoric Acridinedione. <b>2009</b> , 2009, 5941-5947		29
839	The mechanisms of multi-component paired-pulse facilitation of neurotransmitter release at the frog neuromuscular junction. <b>2009</b> , 458, 563-70		17
838	Abnormalities of calcium metabolism and myocardial contractility depression in the failing heart. <b>2009</b> , 14, 213-24		89
837	Novel side-chain naphthalimide polyphenylacetylene as a ratiometric fluorescent chemosensor for fluoride ion. <b>2009</b> , 47, 1544-1552		46
836	Spike frequency adaptation mediates looming stimulus selectivity in a collision-detecting neuron. <b>2009</b> , 12, 318-26		92
835	Cadmium-induced cytosolic Ca <sup>2+</sup> elevation and subsequent apoptosis in renal tubular cells. <b>2009</b> , 104, 345-51		24
834	Effect of MK-886 on Ca <sup>2+</sup> level and viability in PC3 human prostate cancer cells. <b>2009</b> , 104, 441-7		9
833	Calmodulin kinase II initiates arrhythmogenicity during metabolic acidification in murine hearts. <b>2009</b> , 197, 13-25		10
832	Tamoxifen-induced [Ca <sup>2+</sup> ] <sub>i</sub> rise and apoptosis in corneal epithelial cells. <b>2009</b> , 255, 58-64		13
831	The interaction of biological and noxious transition metals with the zinc probes FluoZin-3 and Newport Green. <b>2009</b> , 384, 34-41		41
830	Imaging ion flux and ion homeostasis in blood stage malaria parasites. <b>2009</b> , 4, 812-25		2
829	Two-photon excited fluorescent probes for calcium based on internal charge transfer. <i>Chemical Communications</i> , <b>2009</b> , 3883-5	5.8	44

828	Synthesis of New BAPTA Calcium Chelators. <b>2009</b> , 39, 2074-2081	2
827	Real-time neuronal homeostasis by coordinating VGSC intrinsic properties. <b>2009</b> , 387, 585-9	12
826	Impaired presynaptic cytosolic and mitochondrial calcium dynamics in aged compared to young adult hippocampal CA1 synapses ameliorated by calcium chelation. <b>2009</b> , 159, 1300-8	14
825	Pregnenolone sulfate modulation of N-methyl-D-aspartate receptors is phosphorylation dependent. <b>2009</b> , 160, 616-28	24
824	Mitochondrial calcium transport in the heart: physiological and pathological roles. <b>2009</b> , 46, 789-803	64
823	Tenascin-C stimulates contactin-dependent neurite outgrowth via activation of phospholipase C. <b>2009</b> , 41, 397-408	24
822	Fast-fluorescence dynamics in nonratiometric calcium indicators. <b>2009</b> , 34, 362-4	17
821	Fluorescent PET (photoinduced electron transfer) sensors as potent analytical tools. <b>2009</b> , 134, 2385-93	429
820	Low-affinity Ca <sup>2+</sup> indicators compared in measurements of skeletal muscle Ca <sup>2+</sup> transients. <b>2009</b> , 97, 1864-72	34
819	Deflagellation. <b>2009</b> , 43-69	14
818	Chapter 11 Biomedical FRET/FLIM applications. <b>2009</b> , 447-474	
817	Calcium in biological systems. <b>2009</b> , 251-366	11
816	Intracellular Calcium. <b>2009</b> , 185-220	1
815	A novel nuclease activity that is activated by Ca(2+) chelated to EGTA. <b>2009</b> , 55, 193-9	18
814	Ionized calcium requirement of rumen cellulolytic bacteria. <b>2009</b> , 92, 5079-91	4
813	A red-shift colorimetric and fluorescent sensor for Cu <sup>2+</sup> in aqueous solution: unsymmetrical 4,5-diaminonaphthalimide with N-H deprotonation induced by metal ions. <b>2009</b> , 7, 1299-303	95
812	Simultaneous optical mapping of intracellular free calcium and action potentials from Langendorff perfused hearts. <b>2009</b> , Chapter 12, Unit 12.17	35
811	Expressed phosphorylase b kinase and its alphasubunit as regulatory models for the rabbit skeletal muscle holoenzyme. <i>Biochemistry</i> , <b>2009</b> , 48, 10183-91	3-2 5



810	The 2009 Lindau Nobel Laureate Meeting: Roger Y. Tsien, Chemistry 2008. <b>2010</b> ,		9
809	Metallo-supramolecular Systems for Synergistic Functions Based on Unique Arrangement of Ligation Sites. <b>2010</b> , 39, 10-16		18
808	Design and Development of Chemical Fluorescent Probes for the Detection of Biomolecules. <i>Bunseki Kagaku</i> , <b>2010</b> , 59, 771-779	0.2	
807	Construction of Cooperative and Responsive Supramolecular Systems for Molecular Functional Modulation. <b>2010</b> , 83, 969-991		45
806	Engineering a subcellular targetable, red-emitting, and ratiometric fluorescent probe for Ca <sup>2+</sup> and its bioimaging applications. <b>2010</b> , 397, 1245-50		16
805	Mitochondria: the calcium connection. <b>2010</b> , 1797, 607-18		226
804	Ca(2+) signaling, genes and the cell cycle. <i>Cell Calcium</i> , <b>2010</b> , 48, 243-50	4	33
803	Econazole-induced Ca <sup>2+</sup> fluxes and apoptosis in human oral cancer cells. <b>2010</b> , 71, 240-248		2
802	Maprotiline-induced Ca <sup>2+</sup> fluxes and apoptosis in human osteosarcoma cells. <b>2010</b> , 71, 268-274		3
801	Effect of nortriptyline on cytosolic Ca <sup>2+</sup> regulation and viability in PC3 human prostate cancer cells. <b>2010</b> , 71, 323-330		6
800	Q. <b>2010</b> , 393-403		1
799	B. <b>2010</b> , 37-69		
798	Synthesis of BAPTA-AM Analogues Capable of Enhancing the Vascular production of Prostacyclin. <b>2010</b> , 103, 309-319		3
797	Single-Molecule Kinetics of Two-Step Divalent Cation Chelation. <b>2010</b> , 122, 5211-5216		5
796	Discrimination between Hard Metals with Soft Ligand Donor Atoms: An On-Fluorescence Probe for Manganese(II). <b>2010</b> , 122, 7876-7879		1
795	Single-molecule kinetics of two-step divalent cation chelation. <b>2010</b> , 49, 5085-90		34
794	Discrimination between hard metals with soft ligand donor atoms: an on-fluorescence probe for manganese(II). <b>2010</b> , 49, 7710-3		34
793	Determination of 1,2-bis (2-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid (BAPTA free acid) in rat plasma, urine and feces by liquid chromatography with UV and tandem mass spectrometric detection. <b>2010</b> , 878, 3052-8		

792	High order sliding-mode dynamic control for chaotic intracellular calcium oscillations. <b>2010</b> , 11, 217-231	16
791	Towards highly efficient, intelligent and bimodal imaging probes: Novel approaches provided by lanthanide coordination chemistry. <b>2010</b> , 13, 700-714	40
790	VEGF stimulates RCAN1.4 expression in endothelial cells via a pathway requiring Ca <sup>2+</sup> /calcineurin and protein kinase C-delta. <b>2010</b> , 5, e11435	38
789	. <b>2010</b> ,	187
788	Quantitative estimation of calcium dynamics from ratiometric measurements: a direct, nonratioing method. <b>2010</b> , 103, 1130-44	6
787	Direct demonstration of discrete Ca <sup>2+</sup> microdomains associated with different isoforms of adenylyl cyclase. <b>2010</b> , 123, 107-17	48
786	Calcium regulates vesicle replenishment at the cone ribbon synapse. <b>2010</b> , 30, 15866-77	43
785	IP(3) receptors: toward understanding their activation. <b>2010</b> , 2, a004010	173
784	Ca <sup>2+</sup> -dependent facilitation of Cav1.3 Ca <sup>2+</sup> channels by densin and Ca <sup>2+</sup> /calmodulin-dependent protein kinase II. <b>2010</b> , 30, 5125-35	68
783	Carvedilol-induced elevation in cytosolic free Ca(2+) level and apoptosis in SIRC corneal epithelial cells. <b>2010</b> , 29, 477-87	
782	Cch1 restores intracellular Ca <sup>2+</sup> in fungal cells during endoplasmic reticulum stress. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 10951-8	5-4 42
781	Photophysical approaches to responsive optical probes. <b>2010</b> , 2, 339-50	24
780	Confocal and multiphoton imaging of intracellular Ca(2+). <b>2010</b> , 99, 225-61	4
779	Labels and probes for live cell imaging: overview and selection guide. <b>2010</b> , 591, 17-45	12
778	Ca <sup>2+</sup> Imaging: Principles of Analysis and Enhancement. <i>Neuromethods</i> , <b>2010</b> , 57-80	0.4 8
777	In Vivo Ca <sup>2+</sup> Imaging of the Living Brain Using Multi-cell Bolus Loading Technique. <i>Neuromethods</i> , <b>2010</b> , 205-220	0.4
776	How calcium indicators work. <b>2010</b> , 2010, pdb.top70	13
775	MRI probes for sensing biologically relevant metal ions. <b>2010</b> , 2, 367-84	42

774	Localizable and highly sensitive calcium indicator based on a BODIPY fluorophore. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 6472-9	7.8	96
773	Molecular logic gates and luminescent sensors based on photoinduced electron transfer. <b>2011</b> , 300, 1-28		31
772	P2Y1 receptors inhibit long-term depression in the prefrontal cortex. <b>2010</b> , 59, 406-15		27
771	Calcium Imaging in Neuroscience. <b>2010</b> ,		1
770	Intracellular magnesium detection: imaging a brighter future. <b>2010</b> , 135, 1855-66		68
769	A practical guide to the preparation of Ca(2+) buffers. <b>2010</b> , 99, 1-26		158
768	Practical aspects of measuring intracellular calcium signals with fluorescent indicators. <b>2010</b> , 99, 113-52		34
767	Metal ion detection by luminescent 1,3-bis(dimethylaminomethyl) phenyl receptor-modified chromophores and cruciforms. <b>2010</b> , 8, 5620-7		18
766	An organometallic derivative of a BAPTA ligand: towards electrochemically controlled cation release in biocompatible media. <i>Chemical Communications</i> , <b>2011</b> , 47, 5199-201	5.8	9
765	Evolution of group 14 rhodamines as platforms for near-infrared fluorescence probes utilizing photoinduced electron transfer. <b>2011</b> , 6, 600-8		264
764	Principles for designing fluorescent sensors and reporters. <b>2011</b> , 7, 480-3		77
763	Optical control of calcium affinity in a spiroamido-rhodamine based calcium chelator. <b>2011</b> , 13, 2018-21		29
762	Let there be light: zebrafish neurobiology and the optogenetic revolution. <b>2011</b> , 22, 121-30		28
761	Optical Interrogation of Neural Circuits. <i>Neuromethods</i> , <b>2011</b> , 3-20	0.4	
760	In Vivo Functional Imaging of the Olfactory Bulb at Single-Cell Resolution. <i>Neuromethods</i> , <b>2011</b> , 21-43	0.4	1
759	A colorimetric selective sensing probe for calcium ions with tunable dynamic ranges using cytidine triphosphate stabilized gold nanoparticles. <i>Chemical Communications</i> , <b>2011</b> , 47, 10299-301	5.8	34
758	Fluorescent assessment of intracellular calcium in individual cells. <b>2011</b> , 758, 239-51		1
757	Receptor Signal Transduction Protocols. <b>2011</b> ,		1

756	In Vitro Neurotoxicology. <b>2011</b> ,		5
755	Dextran-coated silica nanoparticles for calcium-sensing. <b>2011</b> , 136, 1722-7		15
754	A simple fluorescence assay for the detection of fluoride in water at neutral pH. <i>Chemical Communications</i> , <b>2011</b> , 47, 4391-3	5.8	67
753	Calcium imaging in the optical stretcher. <b>2011</b> , 19, 19212-22		12
752	Calcium signaling in smooth muscle. <b>2011</b> , 3, a004549		115
751	Effect of diallyl disulfide on Ca <sup>2+</sup> movement and viability in PC3 human prostate cancer cells. <b>2011</b> , 25, 636-43		12
750	Imaging voltage in neurons. <b>2011</b> , 69, 9-21		268
749	Intracellular calcium chelation and pharmacological SERCA inhibition of Ca <sup>2+</sup> pump in the insular cortex differentially affect taste aversive memory formation and retrieval. <b>2011</b> , 96, 192-8		4
748	Calibration of fluorescent calcium indicators. <b>2011</b> , 2011, 923-30		15
747	Effect of thymol on Ca <sup>2+</sup> homeostasis and viability in MG63 human osteosarcoma cells. <b>2011</b> , 88, 201-12		33
746	Pyridine derivatives stimulate phosphatidylcholine secretion in primary cultures of rat type II pneumocytes. <b>1996</b> , 48, 53-6		7
745	The synthesis and application of polyamino polycarboxylic bifunctional chelating agents. <b>2011</b> , 40, 3019-49		136
744	A near-infrared fluorescent calcium probe: a new tool for intracellular multicolour Ca <sup>2+</sup> imaging. <i>Chemical Communications</i> , <b>2011</b> , 47, 10407-9	5.8	76
743	Modulation of cardiac ryanodine receptor channels by alkaline earth cations. <b>2011</b> , 6, e26693		15
742	Proteome Analysis of <i>B. subtilis</i> in Response to Calcium. <b>2011</b> , s6,		6
741	Excitatory amino acid transporter 2 and excitatory amino acid transporter 1 negatively regulate calcium-dependent proliferation of hippocampal neural progenitor cells and are persistently upregulated after injury. <b>2011</b> , 34, 1712-23		15
740	Imaging calcium signals in vivo: a powerful tool in physiology and pharmacology. <b>2011</b> , 163, 1605-25		77
739	Effect of methoxychlor on Ca <sup>2+</sup> handling and viability in OC2 human oral cancer cells. <b>2011</b> , 108, 341-8		5

738	The mechanism of sertraline-induced $[Ca^{2+}]_i$ rise in human PC3 prostate cancer cells. <b>2011</b> , 109, 103-10	18
737	Synthesis, complexation, and fluorescence behavior of 3,4-dimethylthieno[2,3-b]thiophene carrying two monoaza-15-crown-5 ether groups. <b>2011</b> , 82, 340-4	10
736	Calcium indicators and calcium signalling in skeletal muscle fibres during excitation-contraction coupling. <b>2011</b> , 105, 162-79	40
735	Neuro-immune interactions in the dove brain. <b>2011</b> , 172, 173-80	11
734	A rapid chemical method for lysing Arabidopsis cells for protein analysis. <b>2011</b> , 7, 22	36
733	Capturing ER calcium dynamics. <b>2011</b> , 90, 613-9	11
732	Effect of thymol on $Ca^{2+}$ homeostasis and viability in human glioblastoma cells. <b>2011</b> , 670, 85-91	49
731	$Ca^{2+}$ signaling, genes and the cell cycle. <i>Cell Calcium</i> , <b>2011</b> , 49, 323-30	4 35
730	2010: A Small Space Odyssey with Luminescent Molecules. <b>2011</b> , 51, 16-22	6
729	Sensing with fluorescent nanoparticles. <b>2011</b> , 3, 121-33	79
728	Molecular logic gate arrays. <b>2011</b> , 6, 750-66	146
727	In vivo imaging of near-membrane calcium ions with two-photon probes. <b>2011</b> , 6, 2028-33	16
726	<i>Neurospora crassa</i> homologue of Neuronal Calcium Sensor-1 has a role in growth, calcium stress tolerance, and ultraviolet survival. <b>2011</b> , 139, 885-94	15
725	Calcium-dependent inhibition of T-type calcium channels by TRPV1 activation in rat sensory neurons. <b>2011</b> , 462, 709-22	27
724	Effect of diindolylmethane on $Ca^{2+}$ movement and viability in HA59T human hepatoma cells. <b>2011</b> , 85, 1257-66	13
723	Inositol 1,4,5-trisphosphate receptor-mediated calcium release in Purkinje cells: from molecular mechanism to behavior. <b>2011</b> , 10, 820-33	20
722	Mechanism of the chromosome-induced polar body extrusion in mouse eggs. <b>2011</b> , 6, 17	26
721	Metal Chelation Chemistry. <b>2011</b> , 41-64	2

720	Photocontrollable analyte-responsive fluorescent probes: a photocaged copper-responsive fluorescence turn-on probe. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 689-96	4.8	43
719	Water-soluble distyrylbenzenes: one core with two sensory responses--turn-on and ratiometric. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 13726-31	4.8	8
718	Effect of thapsigargin on $Ca^{2+}$ fluxes and viability in human prostate cancer cells. <b>2011</b> , 31, 247-55		6
717	Investigation of carvedilol-evoked $Ca^{2+}$ movement and death in human oral cancer cells. <b>2011</b> , 31, 220-8		1
716	Influence of pH on $Ca^{2+}$ current and its control of electrical and $Ca^{2+}$ signaling in ventricular myocytes. <b>2011</b> , 138, 537-59		30
715	Local cytosolic $Ca^{2+}$ elevations are required for stromal interaction molecule 1 (STIM1) de-oligomerization and termination of store-operated $Ca^{2+}$ entry. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 36448-59	5.4	32
714	Atypical properties of release and short-term depression at a specialized nicotinic synapse in the Mauthner cell network. <b>2011</b> , 214, 1560-70		5
713	Effect of phenethyl isothiocyanate on $Ca^{2+}$ movement and viability in MDCK canine renal tubular cells. <b>2012</b> , 31, 1251-61		3
712	Astroglial excitability and gliotransmission: an appraisal of $Ca^{2+}$ as a signalling route. <b>2012</b> , 4,		207
711	Boronate can be the fluorogenic switch for the detection of hydrogen peroxide. <b>2012</b> , 19, 3622-34		5
710	Permeant calcium ion feed-through regulation of single inositol 1,4,5-trisphosphate receptor channel gating. <b>2012</b> , 140, 697-716		24
709	LapG, required for modulating biofilm formation by <i>Pseudomonas fluorescens</i> Pf0-1, is a calcium-dependent protease. <b>2012</b> , 194, 4406-14		40
708	Effect of m-3m3FBS on $Ca^{2+}$ handling and viability in OC2 human oral cancer cells. <b>2012</b> , 99, 74-86		3
707	Calcium imaging. 362-409		1
706	Signaling in dendritic spines and spine microdomains. <b>2012</b> , 22, 389-96		50
705	Calcium signaling in dendritic spines. <b>2012</b> , 4, a005686		111
704	Statistical inference for ratiometric imaging of excitable cells: a self-organizing state-space model. <b>2012</b> , 7, S71-S76		
703	A calcium ion-selective electrode array for monitoring the activity of HepG2/C3As in a microchannel. <b>2012</b> , 174, 473-477		4

702	Effect of diindolylmethane on Ca <sup>2+</sup> homeostasis and viability in PC3 human prostate cancer cells. <b>2012</b> , 32, 271-8		8
701	A bi-ligand co-functionalized gold nanoparticles-based calcium ion probe and its application to the detection of calcium ions in serum. <i>Chemical Communications</i> , <b>2012</b> , 48, 5566-8	5.8	30
700	Water-soluble, redox-active organometallic calcium chelators. <b>2012</b> , 41, 14257-64		1
699	Calcium rubies: a family of red-emitting functionalizable indicators suitable for two-photon Ca <sup>2+</sup> imaging. <b>2012</b> , 134, 14923-31		62
698	Imaging calcium in neurons. <b>2012</b> , 73, 862-85		780
697	Polyether-bridged bis(tert-butyl nitroxide) paramagnetic hosts showing receptor ability to calcium(II) and barium(II) ions. <b>2012</b> , 68, 6193-6197		8
696	Investigation of 2,6-diisopropylphenol (propofol)-evoked Ca <sup>2+</sup> movement and cell death in human glioblastoma cells. <b>2012</b> , 26, 862-71		15
695	Autonomic Nervous System In Vitro: Studying Tonically Active Neurons Controlling Vagal Outflow in Rodent Brainstem Slices. <i>Neuromethods</i> , <b>2012</b> , 1-59	0.4	15
694	Two-photon calcium imaging in the intact brain. <b>2012</b> , 740, 83-102		7
693	Solution properties of the Ln(III) complexes of a novel octadentate chelator with rigidified iminodiacetate arms. <b>2012</b> , 41, 12797-806		3
692	Vasorelaxation effect and mechanism of action of vascular endothelial growth factor-165 in isolated perfused human skin flaps. <b>2012</b> , 172, 177-86		6
691	Carvacrol-induced [Ca <sup>2+</sup> ] <sub>i</sub> rise and apoptosis in human glioblastoma cells. <b>2012</b> , 90, 703-11		58
690	Visualizing metal ions in cells: an overview of analytical techniques, approaches, and probes. <b>2012</b> , 1823, 1406-15		112
689	Probing oxidative stress: Small molecule fluorescent sensors of metal ions, reactive oxygen species, and thiols. <b>2012</b> , 256, 2333-2356		250
688	Fluorescence enhancement and end-to-end assembly of bisacridinedione-gold nanorods by calcium ions. <b>2012</b> , 13, 3445-8		3
687	Cellular Uptake of a Polypyridyl Ruthenium Complex Revealed Using a Fluorescent Rhodamine-modified Ruthenium Complex. <b>2012</b> , 59, 1053-1057		1
686	Upregulation of transmitter release probability improves a conversion of synaptic analogue signals into neuronal digital spikes. <b>2012</b> , 5, 26		29
685	Metal ion-induced dual fluorescent change for aza-crown ether acridinedione-functionalized gold nanorods and quantum dots. <b>2012</b> , 36, 1725		15

684	Dynamics of ion-regulated photoinduced electron transfer in BODIPY-BAPTA conjugates. <b>2012</b> , 11, 1666-74	28
683	Is there a path beyond BOLD? Molecular imaging of brain function. <b>2012</b> , 62, 1208-15	24
682	Optical Investigation of Brain Networks Using Structured Illumination. <b>2012</b> , 101-120	2
681	Magnetic Resonance Imaging Contrast Agents. <b>2012</b> ,	
680	Calcium. <b>2012</b> , 455-466	2
679	LOTOS-based two-photon calcium imaging of dendritic spines in vivo. <b>2012</b> , 7, 1818-29	46
678	Strontium is a biased agonist of the calcium-sensing receptor in rat medullary thyroid carcinoma 6-23 cells. <b>2012</b> , 343, 638-49	31
677	Kisspeptin inhibits high-voltage activated Ca <sup>2+</sup> channels in GnRH neurons via multiple Ca <sup>2+</sup> influx and release pathways. <b>2012</b> , 96, 68-80	21
676	New photolabile BAPTA-based Ca <sup>2+</sup> cages with improved photorelease. <b>2012</b> , 134, 7733-40	32
675	Imaging beyond the proteome. <i>Chemical Communications</i> , <b>2012</b> , 48, 8864-79	5.8 73
674	Platelet activation profiles on TiO <sub>2</sub> : effect of Ca <sup>2+</sup> binding to the surface. <b>2012</b> , 7, 28	23
673	Calreticulin mediates nerve growth factor-induced neuronal differentiation. <b>2012</b> , 47, 571-81	13
672	Intracellular calcium chelation with BAPTA-AM modulates ethanol-induced behavioral effects in mice. <b>2012</b> , 234, 446-53	14
671	3,3'-Diindolylmethane alters Ca <sup>2+</sup> homeostasis and viability in MG63 human osteosarcoma cells. <b>2012</b> , 110, 314-21	9
670	Effect of methoxychlor on Ca(2+) movement and viability in MDCK renal tubular cells. <b>2012</b> , 111, 224-31	1
669	Novel ion recognition systems based on cyclic and acyclic oligo(salen)-type ligands. <b>2012</b> , 72, 25-54	59
668	Effect of caffeic acid on Ca(2+) homeostasis and apoptosis in SCM1 human gastric cancer cells. <b>2013</b> , 87, 2141-50	15
667	Methods in Neuroethological Research. <b>2013</b> ,	



666 Chemical Neurobiology. **2013**,

665 Metal ion sensing using ion chemical exchange saturation transfer <sup>19</sup>F magnetic resonance imaging. **2013**, 135, 12164-7 55

664 Calcium signalling. **2013**, 6

663 Molecular Imaging: Chemistry and Applications. **2013**, 733-780

662 Synthesis, characterization, optical property of a bipyridine derivative and its application to determine trace Zn<sup>2+</sup> in water. **2013**, 177, 218-223 11

661 An explicit formulation approach for the analysis of calcium binding to EF-hand proteins using isothermal titration calorimetry. **2013**, 105, 2843-53 12

660 Effect of diindolylmethane on Ca(2+) homeostasis and viability in MDCK renal tubular cells. **2013**, 32, 344-53 5

659 Quantitative aspects of calcium fluorimetry. **2013**, 2013, 918-24 5

658 Two-photon imaging of neural population activity in zebrafish. **2013**, 62, 255-67 39

657 Mechanisms of resveratrol-induced changes in [Ca(2+)]<sub>i</sub> and cell viability in PC3 human prostate cancer cells. **2013**, 33, 298-303 15

656 Synthesis and properties of Asante Calcium Red--a novel family of long excitation wavelength calcium indicators. *Cell Calcium*, **2013**, 54, 320-33 4 11

655 Effect of clotrimazole on cytosolic Ca(2+) rise and viability in HA59T human hepatoma cells. **2013**, 33, 89-95 5

654 Repair of large area pores in supported double bilayers. **2013**, 9, 2787 10

653 A novel ratiometric emission probe for Ca<sup>2+</sup> in living cells. **2013**, 11, 503-8 10

652 The chemistry of small-molecule fluorogenic probes. **2013**, 113, 1-34 92

651 Small-molecule fluorophores and fluorescent probes for bioimaging. **2013**, 465, 347-59 198

650 TRPM7 triggers Ca<sup>2+</sup> sparks and invadosome formation in neuroblastoma cells. *Cell Calcium*, **2013**, 54, 404-15 4 53

649 Chemical biology approaches for the study of apicomplexan parasites. **2013**, 192, 1-9

648	The mechanism of carvacrol-evoked $[Ca^{2+}]_i$ rises and non- $Ca^{2+}$ -triggered cell death in OC2 human oral cancer cells. <b>2013</b> , 303, 152-61		23
647	Bidirectional neuro-glia signaling modalities in the hypothalamus: role in neurohumoral regulation. <b>2013</b> , 175, 51-60		22
646	Estimating background-subtracted fluorescence transients in calcium imaging experiments: a quantitative approach. <i>Cell Calcium</i> , <b>2013</b> , 54, 71-85	4	2
645	Calculated and measured $[Ca^{2+}]$ in buffers used to calibrate $Ca^{2+}$ macroelectrodes. <b>2013</b> , 436, 29-35		6
644	Effect of the environmental pollutant bisphenol A dimethacrylate (BAD) on $Ca^{2+}$ movement and viability in OC2 human oral cancer cells. <b>2013</b> , 35, 178-84		2
643	Calcium Signaling Protocols. <b>2013</b> ,		3
642	From Sensors to Molecular Logic: A Journey. <b>2013</b> , 11-24		
641	Synthetic control over photoinduced electron transfer in phosphorescence zinc sensors. <b>2013</b> , 135, 4771-87		107
640	Development of a reusable colorimetric calcium sensor based on a calix[4]arene-functionalised glass surface. <b>2013</b> , 25, 121-126		6
639	$Ca^{2+}$ -sensitive fluorescent dyes and intracellular $Ca^{2+}$ imaging. <b>2013</b> , 2013, 83-99		80
638	Design of a water soluble 1,8-naphthalimide/3-hydroxy-4-pyridinone conjugate: Investigation of its spectroscopic properties at variable pH and in the presence of $Fe^{3+}$ , $Cu^{2+}$ and $Zn^{2+}$ . <b>2013</b> , 98, 201-211		16
637	Responsive Probes. <b>2013</b> , 343-385		9
636	Fluorescent measurement of $[Ca^{2+}]_i$ : basic practical considerations. <b>2013</b> , 937, 3-36		10
635	Confocal microscopy: theory and applications for cellular signaling. <b>2013</b> , 937, 51-93		
634	GPCR responses in vascular smooth muscle can occur predominantly through dual transactivation of kinase receptors and not classical $G\beta\gamma$ protein signalling pathways. <b>2013</b> , 92, 951-6		16
633	The endoplasmic reticulum and junctional membrane communication during calcium signaling. <b>2013</b> , 1833, 2542-59		81
632	Development and in vitro characterization of ratiometric and intensity-based fluorescent ion sensors. <b>2013</b> , 995, 133-45		5
631	Calcium depletion-mediated protease inhibition and apical-junctional-complex disassembly via an EGTA-conjugated carrier for oral insulin delivery. <b>2013</b> , 169, 296-305		48

630	Native STIM2 and ORAI1 proteins form a calcium-sensitive and thapsigargin-insensitive complex in cortical neurons. <i>Journal of Neurochemistry</i> , <b>2013</b> , 126, 727-38	6	41
629	Synthesis and application of intercellular Ca <sup>2+</sup> -sensitive fluorescent probe based on quantum dots. <b>2013</b> , 118, 39-47		15
628	APP <sup>+</sup> , a fluorescent analogue of the neurotoxin MPP <sup>+</sup> , is a marker of catecholamine neurons in brain tissue, but not a fluorescent false neurotransmitter. <b>2013</b> , 4, 858-69		22
627	High-throughput analyses of IP3 receptor behavior. <b>2013</b> , 2013, 914-7		2
626	Synthesis of a new ratiometric emission Ca <sup>2+</sup> indicator for in vivo bioimaging. <b>2013</b> , 24, 156-158		2
625	Design of Molecular Imaging Probes. <b>2013</b> , 253-303		
624	Fluorescent films based on molecular-gel networks and their sensing performances. <b>2013</b> , 5, 9830-6		32
623	Low pH environmental stress inhibits LPS and LTA-stimulated proinflammatory cytokine production in rat alveolar macrophages. <b>2013</b> , 2013, 742184		10
622	Synthesis of 2-(1-Benzofuran-2-yl)-4-(1,3-benzoxazol-2-yl/ 1,3-benzothiazol-2-yl) Quinolines as Blue Green Fluorescent Probes. <b>2013</b> , 2013, 1-7		2
621	Airway smooth muscle CXCR3 ligand production: regulation by JAK-STAT1 and intracellular Ca <sup>2+</sup> . <b>2013</b> , 304, L790-802		14
620	Exploring the dominant role of Cav1 channels in signalling to the nucleus. <b>2012</b> , 33, 97-101		47
619	Modulation of ventricular transient outward K <sup>+</sup> current by acidosis and its effects on excitation-contraction coupling. <b>2013</b> , 304, H1680-96		9
618	Activity of the calcium channel pore Cch1 is dependent on a modulatory region of the subunit Mid1 in <i>Cryptococcus neoformans</i> . <b>2013</b> , 12, 142-50		13
617	Cooperative formation and functions of multimetal supramolecular systems. <b>2013</b> , 85, 763-776		25
616	Calcium-sensitive mini- and microelectrodes. <b>2013</b> , 2013, 305-9		4
615	The immediately releasable pool of mouse chromaffin cell vesicles is coupled to P/Q-type calcium channels via the synaptic protein interaction site. <b>2013</b> , 8, e54846		13
614	Effect of the pesticide, deltamethrin, on Ca <sup>2+</sup> signaling and apoptosis in OC2 human oral cancer cells. <b>2014</b> , 37, 25-31		11
613	Rapid production of platelet-activating factor is induced by protein kinase C $\beta$ -mediated phosphorylation of lysophosphatidylcholine acyltransferase 2 protein. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 15566-76	5.4	21

612	Proton-mediated block of Ca <sup>2+</sup> channels during multivesicular release regulates short-term plasticity at an auditory hair cell synapse. <b>2014</b> , 34, 15877-87	28
611	Transporter-mediated prostaglandin E <sub>2</sub> elimination across the rat blood-brain barrier and its attenuation by the activation of N-methyl-D-aspartate receptors. <b>2014</b> , 29, 387-93	8
610	The calcium stored in the sarcoplasmic reticulum acts as a safety mechanism in rainbow trout heart. <b>2014</b> , 307, R1493-501	17
609	Effects of parathyroid hormone-related peptide on the large conductance calcium-activated potassium channel and calcium homeostasis in vascular smooth muscle cells. <b>2014</b> , 126, 76-85	
608	Calcium imaging perspectives in plants. <b>2014</b> , 15, 3842-59	33
607	Fluorescent biosensors: design and application to motor proteins. <b>2014</b> , 105, 25-47	12
606	The mechanism of bifonazole-induced [Ca <sup>2+</sup> ] <sub>i</sub> rises and non-Ca <sup>2+</sup> -triggered cell death in PC3 human prostate cancer cells. <b>2014</b> , 34, 493-9	5
605	New red-fluorescent calcium indicators for optogenetics, photoactivation and multi-color imaging. <b>2014</b> , 1843, 2284-306	61
604	Detection of alkali and alkaline earth metal ions by fluorescence spectroscopy. <b>2014</b> , 417, 109-141	9
603	Foundations of Sted Microscopy. <i>Neuromethods</i> , <b>2014</b> , 41-71	0.4 1
602	Mapping brain circuit function in vivo using two-photon fluorescence microscopy. <b>2014</b> , 77, 492-501	12
601	Fluorescent sensors for measuring metal ions in living systems. <b>2014</b> , 114, 4564-601	1634
600	MRI Contrast Agents. <b>2014</b> , 321-354	4
599	Reversible Modification of CdSe/ZnS Quantum Dot Fluorescence by Surrounding Ca <sup>2+</sup> Ions. <b>2014</b> , 118, 10424-10433	22
598	Transmembrane calcium current: Mechanism, registration procedures, calcium-mediated modulators of synaptic transmission. <b>2014</b> , 8, 213-224	5
597	A fluorescent sensor with high selectivity for Ca <sup>2+</sup> against Mg <sup>2+</sup> in seawater. <b>2014</b> , 6, 3555	5
596	Celecoxib-induced increase in cytosolic Ca <sup>2+</sup> levels and apoptosis in HA59T human hepatoma cells. <b>2014</b> , 33, 1089-98	1
595	UV-Vis and NIR Fluorescence Spectroscopy. <b>2014</b> , 999-1036	0

594	Rhodamine-based fluorescent off-on sensor for Fe <sup>3+</sup> in aqueous solution and in living cells: 8-aminoquinoline receptor and 2:1 binding. <b>2014</b> , 43, 5983-9		60
593	Cyclometalated iridium(III) complexes for phosphorescence sensing of biological metal ions. <b>2014</b> , 53, 1804-15		119
592	The mechanism of honokiol-induced intracellular Ca <sup>2+</sup> rises and apoptosis in human glioblastoma cells. <b>2014</b> , 221, 13-23		13
591	Regulation and function of adult neurogenesis: from genes to cognition. <b>2014</b> , 94, 991-1026		393
590	Calcium Storage and Homeostasis in <i>Toxoplasma gondii</i> . <b>2014</b> , 351-374		1
589	Effect of melamine on [Ca <sup>2+</sup> ] <sub>i</sub> and viability in PC3 human prostate cancer cells. <b>2014</b> , 38, 800-6		2
588	Design of ratiometric emission probe with visible light excitation for determination of Ca <sup>2+</sup> in living cells. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8025-30	7.8	14
587	Imaging early signaling events in T lymphocytes with fluorescent biosensors. <b>2014</b> , 9, 203-12		18
586	Zn(II)-coordination modulated ligand photophysical processes - the development of fluorescent indicators for imaging biological Zn(II) ions. <b>2014</b> , 4, 20398-20440		91
585	Design and synthesis of calcium responsive magnetic resonance imaging agent: Its relaxation and luminescence studies. <b>2014</b> , 82, 225-32		1
584	How to Study Intracellular Ca <sup>2+</sup> as Cell Regulator. <b>2014</b> , 129-186		
583	Fluorescence lifetime imaging of ions in biological tissues. <b>2014</b> , 497-534		7
582	One Hundred Years Plus of Intracellular Ca <sup>2+</sup> . <b>2014</b> , 81-128		
581	Nanosensors for Biomedicine. <b>2014</b> , 413-451		
580	Bibliography. <b>2014</b> , 617-737		
579	Setting the Scene: What is So Special About Calcium?. <b>2014</b> , 1-38		
578	Investigation of Ion Channel Structure Using Fluorescence Spectroscopy. <b>2015</b> , 113-133		2
577	Poly (ADP-ribose) polymerase- and cytochrome <i>c</i> -mediated apoptosis induces hepatocyte injury in a rat model of hyperammonia-induced hepatic failure. <b>2015</b> , 11, 4211-9		4

576	Multiplexed 3D FRET imaging in deep tissue of live embryos. <b>2015</b> , 5, 13991	18
575	Direct InVivo Manipulation and Imaging of Calcium Transients in Neutrophils Identify a Critical Role for Leading-Edge Calcium Flux. <b>2015</b> , 13, 2107-17	37
574	In situ fiber-optical monitoring of cytosolic calcium in tissue explant cultures. <b>2015</b> , 8, 183-95	
573	Development of Functional Fluorescent Molecular Probes for the Detection of Biological Substances. <b>2015</b> , 5, 337-63	57
572	Targeted siRNA Screens Identify ER-to-Mitochondrial Calcium Exchange in Autophagy and Mitophagy Responses in RPE1 Cells. <b>2015</b> , 16, 13356-80	30
571	FRET-Based Nanobiosensors for Imaging Intracellular Ca <sup>2+</sup> and H <sup>+</sup> Microdomains. <b>2015</b> , 15, 24662-80	10
570	Regulated phosphorylation of the K-Cl cotransporter KCC3 is a molecular switch of intracellular potassium content and cell volume homeostasis. <b>2015</b> , 9, 255	24
569	Imaging activity in astrocytes and neurons with genetically encoded calcium indicators following in utero electroporation. <b>2015</b> , 8, 10	22
568	Potential interactions of calcium-sensitive reagents with zinc ion in different cultured cells. <b>2015</b> , 10, e0127421	6
567	Recent progress in the development of genetically encoded Ca <sup>2+</sup> indicators. <b>2015</b> , 62, 24-8	18
566	References. <b>2015</b> , 633-722	
565	Optogenetics. <b>2015</b> ,	10
564	Dark dyes-bright complexes: fluorogenic protein labeling. <b>2015</b> , 27, 18-23	49
563	Optical dissection of brain circuits with patterned illumination through the phase modulation of light. <b>2015</b> , 241, 66-77	36
562	Mechanisms of resveratrol-induced changes in cytosolic free calcium ion concentrations and cell viability in OC2 human oral cancer cells. <b>2015</b> , 34, 289-99	10
561	Naproxen-induced Ca <sup>2+</sup> movement and death in MDCK canine renal tubular cells. <b>2015</b> , 34, 1096-105	1
560	Osamu Shimomura, Martin Chalfie and Roger Y. Tsien. <b>2015</b> , 73-188	
559	Synthesis of an azido-tagged low affinity ratiometric calcium sensor. <b>2015</b> , 71, 9571-9578	4

558	Fluorescence imaging of metal ions implicated in diseases. <b>2015</b> , 44, 4487-93	241
557	Calcium signaling in neocortical development. <b>2015</b> , 75, 360-8	40
556	Ca(2+) movement and apoptosis induced by deltamethrin in Madin-Darby canine kidney canine renal tubular cells. <b>2015</b> , 31, 1-8	5
555	Single (19)F probe for simultaneous detection of multiple metal ions using miCEST MRI. <b>2015</b> , 137, 78-81	62
554	Synthetic fluorescent probes for studying copper in biological systems. <b>2015</b> , 44, 4400-14	339
553	Citrate modulates lipopolysaccharide-induced monocyte inflammatory responses. <b>2015</b> , 180, 520-30	23
552	New method for determining total calcium content in tissue applied to skeletal muscle with and without calcestrin. <b>2015</b> , 145, 127-53	11
551	Imaging approaches to measuring lysosomal calcium. <b>2015</b> , 126, 159-95	30
550	Optical probes for the detection of protons, and alkali and alkaline earth metal cations. <b>2015</b> , 44, 4415-32	128
549	Construction of LRET-based nanoprobe using upconversion nanoparticles with confined emitters and bared surface as luminophore. <b>2015</b> , 137, 3421-7	160
548	Utilizing GCaMP transgenic mice to monitor endogenous Gq/11-coupled receptors. <b>2015</b> , 6, 42	7
547	Competing surface reactions limiting the performance of ion-sensitive field-effect transistors. <b>2015</b> , 220, 500-507	22
546	The Mechanism of Ca(2+) Movement in the Involvement of Baicalein-Induced Cytotoxicity in ZR-75-1 Human Breast Cancer Cells. <b>2015</b> , 78, 1624-34	12
545	Optogenetic Sensors for Monitoring Intracellular Chloride. <b>2015</b> , 159-183	1
544	Glucose Sensing in Supramolecular Chemistry. <b>2015</b> , 115, 8001-37	265
543	Monitoring brain activity with protein voltage and calcium sensors. <b>2015</b> , 5, 10212	50
542	Route to genetically targeted optical electrophysiology: development and applications of voltage-sensitive fluorescent proteins. <i>Neurophotonics</i> , <b>2015</b> , 2,	3.9 13
541	Effect of deoxycholic acid on Ca <sup>2+</sup> movement, cell viability and apoptosis in human gastric cancer cells. <b>2015</b> , 25, 113-9	2

540	Molecular engineering of nonmetallic biosensors for CEST MRI. <b>2015</b> , 10, 1160-70	30
539	The mechanism of protriptyline-induced Ca <sup>2+</sup> movement and non-Ca <sup>2+</sup> -triggered cell death in PC3 human prostate cancer cells. <b>2015</b> , 35, 429-34	4
538	Reporting a new siderophore based Ca(2+) selective chemosensor that works as a staining agent in the live organism Artemia. <b>2015</b> , 140, 7799-809	18
537	From Animaculum to single molecules: 300 years of the light microscope. <b>2015</b> , 5, 150019	71
536	Optical Imaging of Cardiac Action Potential. <b>2015</b> , 859, 299-311	1
535	Membrane Potential Imaging in the Nervous System and Heart. <b>2015</b> ,	10
534	A membrane permeable fluorescent Ca probe based on bis-BODIPY with branched PEG. <b>2015</b> , 3, 894-898	18
533	Particle-based optical sensing of intracellular ions at the example of calcium - what are the experimental pitfalls?. <b>2015</b> , 11, 896-904	27
532	Calciuria determined by new NM-BAPTA calcium assay is not free from magnesium interference. <b>2015</b> , 440, 113-4	
531	Retrospective on the development of aequorin and aequorin-based imaging to visualize changes in intracellular free [Ca(2+) ]. <b>2015</b> , 82, 563-86	11
530	The involvement of mitochondrial apoptotic pathway in eugenol-induced cell death in human glioblastoma cells. <b>2015</b> , 232, 122-32	5
529	Calcium mobilization is both required and sufficient for initiating chromatin decondensation during activation of peripheral T-cells. <b>2015</b> , 63, 540-9	13
528	Fluorescent, MRI, and colorimetric chemical sensors for the first-row d-block metal ions. <b>2015</b> , 44, 4337-66	328
527	Fluorescent probes and bioimaging: alkali metals, alkaline earth metals and pH. <b>2015</b> , 44, 4619-44	480
526	Correlative Light Electron Microscopy: Connecting Synaptic Structure and Function. <b>2016</b> , 8, 28	34
525	Calmodulin Affects Sensitization of Drosophila melanogaster Odorant Receptors. <b>2016</b> , 10, 28	20
524	Ca Signaling and Cell Death Induced by Protriptyline in HepG2 Human Hepatoma Cells. <b>2016</b> , 30, 539-547	
523	A Highly Selective Fluorescence Turn-On Sensor for Extracellular Calcium Ion Detection. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 10351-4	4.8 21



522	CaMKII-dependent phosphorylation regulates basal cardiac pacemaker function via modulation of local Ca <sup>2+</sup> releases. <b>2016</b> , 311, H532-44	23
521	A new design for a green calcium indicator with a smaller size and a reduced number of calcium-binding sites. <b>2016</b> , 6, 34447	26
520	Design and mechanistic insight into ultrafast calcium indicators for monitoring intracellular calcium dynamics. <b>2016</b> , 6, 38276	46
519	The effect of the phenol compound ellagic acid on Ca(2+) homeostasis and cytotoxicity in liver cells. <b>2016</b> , 780, 243-51	7
518	Complexometric titrations: new reagents and concepts to overcome old limitations. <b>2016</b> , 141, 4252-61	15
517	Parkin suppresses Drp1-independent mitochondrial division. <b>2016</b> , 475, 283-8	18
516	A new Schiff base fluorescent indicator for the detection of Mg <sup>2+</sup> and its application to real samples. <b>2016</b> , 42, 6681-6693	4
515	Harnessing the Potential of Small Molecule Intracellular Fluorescent Sensors. <b>2016</b> , 1, 328-333	55
514	Protein-specific localization of a rhodamine-based calcium-sensor in living cells. <b>2016</b> , 14, 5606-11	12
513	The effect of gallic acid on cytotoxicity, Ca(2+) homeostasis and ROS production in DBTRG-05MG human glioblastoma cells and CTX TNA2 rat astrocytes. <b>2016</b> , 252, 61-73	24
512	Calcium-Dependent Rubella Virus Fusion Occurs in Early Endosomes. <b>2016</b> , 90, 6303-6313	12
511	Fluorescent Sensors for Imaging Zinc Dynamics in Biological Fluids. <b>2016</b> , 314-339	1
510	Simultaneous imaging of local calcium and single sarcomere length in rat neonatal cardiomyocytes using yellow Cameleon-Nano140. <b>2016</b> , 148, 341-55	13
509	Mechanisms underlying effect of the mycotoxin cytochalasin B on induction of cytotoxicity, modulation of cell cycle, Ca homeostasis and ROS production in human breast cells. <b>2016</b> , 370, 1-19	15
508	Metal Complexes with Oligo(Salen)-Type Ligands. <b>2016</b> , 1-42	2
507	Where is it and how much? Mapping and quantifying elements in single cells. <b>2016</b> , 141, 5221-35	22
506	Structural and spectroscopic insight into the metal binding properties of the o-aminophenol-N,N,O-triacetic acid (APTRA) chelator: implications for design of metal indicators. <b>2016</b> , 45, 12458-64	12
505	A ratiometric and selective fluorescent chemosensor for Ca(II) ions based on a novel water-soluble ionic Schiff-base. <b>2016</b> , 6, 68709-68718	23

504	The promises and challenges of human brain organoids as models of neuropsychiatric disease. <b>2016</b> , 22, 1220-1228		170
503	Spindle function in <i>Xenopus</i> oocytes involves possible nanodomain calcium signaling. <b>2016</b> , 27, 3273-3283		7
502	Light induced structural changes of the photoprotein mnemiopsin: Characterization and contribution in photoinactivation. <b>2016</b> , 165, 133-140		5
501	Effect of protriptyline on [Ca] and viability in MG63 human osteosarcoma cells. <b>2016</b> , 26, 580-587		2
500	Design and Synthesis of a Calcium-Sensitive Photocage. <b>2016</b> , 128, 8503-8506		2
499	Effect of 2,5-dimethylphenol on Ca(2+) movement and viability in PC3 human prostate cancer cells. <b>2016</b> , 26, 327-33		1
498	A technical review of optical mapping of intracellular calcium within myocardial tissue. <b>2016</b> , 310, H1388-401		36
497	Design and Synthesis of a Calcium-Sensitive Photocage. <b>2016</b> , 55, 8363-6		10
496	Endocannabinoid CB1 receptor-mediated rises in Ca(2+) and depolarization-induced suppression of inhibition within the laterodorsal tegmental nucleus. <b>2016</b> , 221, 1255-77		7
495	Esculetin, a natural coumarin compound, evokes Ca(2+) movement and activation of Ca(2+)-associated mitochondrial apoptotic pathways that involved cell cycle arrest in ZR-75-1 human breast cancer cells. <b>2016</b> , 37, 4665-78		17
494	High throughput screening technologies for ion channels. <b>2016</b> , 37, 34-43		80
493	Electrophysiological Analysis of Synaptic Transmission. <i>Neuromethods</i> , <b>2016</b> ,	0.4	6
492	Intracellular Calcium. <b>2016</b> , 381-439		3
491	Regulation of mitochondrial calcium in plants versus animals. <b>2016</b> , 67, 3809-29		43
490	Zinc Modulation of Cardiac Ryanodine Receptor Gating: Alternate Interpretation of the Interplay between Zinc and Calcium. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 4266	5.4	1
489	On the outside looking in: redefining the role of analytical chemistry in the biosciences. <i>Chemical Communications</i> , <b>2016</b> , 52, 8918-34	5.8	18
488	A simple aza-crown ether containing an anthraquinone fluorophore for the selective detection of Mg(II) in living cells. <b>2016</b> , 72, 205-209		12
487	Synthesis of a new family of ionophores based on aluminum-dipyrrin complexes (ALDIPYs) and their strong recognition of alkaline earth ions. <i>Chemical Communications</i> , <b>2016</b> , 52, 4014-7	5.8	23

486	A Bright and Fast Red Fluorescent Protein Voltage Indicator That Reports Neuronal Activity in Organotypic Brain Slices. <b>2016</b> , 36, 2458-72		115
485	A molecular mechanism to regulate lysosome motility for lysosome positioning and tubulation. <b>2016</b> , 18, 404-17		227
484	Innovative Design of Ca-Sensitive Paramagnetic Liposomes Results in an Unprecedented Increase in Longitudinal Relaxivity. <b>2016</b> , 17, 1303-11		16
483	Zinc flexes its muscle: Correcting a novel analysis of calcium for zinc interference uncovers a method to measure zinc. <b>2016</b> , 147, 95-102		6
482	Dissecting ITC data of metal ions binding to ligands and proteins. <b>2016</b> , 1860, 892-901		24
481	Engineering PQQ-glucose dehydrogenase into an allosteric electrochemical Ca(2+) sensor. <i>Chemical Communications</i> , <b>2016</b> , 52, 485-8	5.8	30
480	The investigation of minoxidil-induced [Ca] rises and non-Ca-triggered cell death in PC3 human prostate cancer cells. <b>2017</b> , 37, 1-7		4
479	Optical Recording Methods: How to Measure Neural Activities with Calcium Imaging. <b>2017</b> , 285-302		
478	Genetically encoded calcium indicators for studying long-term calcium dynamics during apoptosis. <i>Cell Calcium</i> , <b>2017</b> , 61, 44-49	4	13
477	Targetable fluorescent sensors for advanced cell function analysis. <b>2017</b> , 30, 24-35		10
476	A modular platform to develop peptoid-based selective fluorescent metal sensors. <i>Chemical Communications</i> , <b>2017</b> , 53, 3477-3480	5.8	19
475	The GCaMP-R Family of Genetically Encoded Ratiometric Calcium Indicators. <b>2017</b> , 12, 1066-1074		37
474	Ca <sup>2+</sup> ion sensing by a piperidin-4-one derivative and the effect of $\beta$ -cyclodextrin complexation on the sensing. <b>2017</b> , 185, 205-211		7
473	Teaching Old Dyes New Tricks: Biological Probes Built from Fluoresceins and Rhodamines. <b>2017</b> , 86, 825-843		122
472	Effects of puerarin on intracellular Ca and cell viability of MDCK renal tubular cells. <b>2017</b> , 52, 83-89		2
471	Synthetic water soluble di-/trivalent molecular receptors exhibiting Ca/Mg exchange. <b>2017</b> , 15, 4367-4374		1
470	TRP channel pores and local calcium signals. <i>Cell Calcium</i> , <b>2017</b> , 66, 19-24	4	32
469	Dysregulated Zn homeostasis impairs cardiac type-2 ryanodine receptor and mitsugumin 23 functions, leading to sarcoplasmic reticulum Ca leakage. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 13367-13373	5.4	13

468	A novel water-soluble highly selective switch-on ionic liquid-based fluorescent chemi-sensor for Ca(II). <b>2017</b> , 241, 308-315		21
467	Design strategies and progress on xanthene-based fluorescent probe for metal ions. <b>2017</b> , 36,		10
466	Photo-cleavable analog of BAPTA for the fast and efficient release of Ca. <i>Chemical Communications</i> , <b>2017</b> , 53, 5598-5601	5.8	3
465	The forefront of technology of science: Methods for monitoring cell function. <i>Cell Calcium</i> , <b>2017</b> , 64, 1-2	4	
464	An overview of Ca mobilization assays in GPCR drug discovery. <b>2017</b> , 12, 511-523		23
463	Calcium and magnesium ions modulate the oligomeric state and function of mitochondrial 2-Cys peroxiredoxins in parasites. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 7023-7039	5-4	7
462	Antidromic-rectifying gap junctions amplify chemical transmission at functionally mixed electrical-chemical synapses. <i>Nature Communications</i> , <b>2017</b> , 8, 14818	17.4	48
461	Bioinorganic Life and Neural Activity: Toward a Chemistry of Consciousness?. <b>2017</b> , 50, 535-538		26
460	Probing Deep Brain Circuitry: New Advances in in Vivo Calcium Measurement Strategies. <b>2017</b> , 8, 243-251		28
459	Activation of the phospholipid scramblase TMEM16F by nanosecond pulsed electric fields (nsPEF) facilitates its diverse cytophysiological effects. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19381-19391	5-4	20
458	Fluorescent chemosensors: the past, present and future. <b>2017</b> , 46, 7105-7123		980
457	Real-Time Reaction Monitoring of an Organic Multistep Reaction by Electrospray Ionization-Ion Mobility Spectrometry. <b>2017</b> , 82, 1266-1273		4
456	Multiparameter imaging of calcium and abscisic acid and high-resolution quantitative calcium measurements using R-GECO1-mTurquoise in Arabidopsis. <b>2017</b> , 216, 303-320		57
455	F CEST imaging probes for metal ion detection. <b>2017</b> , 15, 6441-6446		19
454	MRI-based Sensors for In Vivo Imaging of Metal Ions in Biology. <b>2017</b> , 57, 843-853		4
453	Effect of tetramethylpyrazine (TMP) on Ca signal transduction and cell viability in a model of renal tubular cells. <b>2017</b> , 31, e21952		1
452	Highly efficient and selective red-emitting Ca <sup>2+</sup> probe based on a BODIPY fluorophore. <b>2017</b> , 73, 5091-5095		6
451	Advances in two photon scanning and scanless microscopy technologies for functional neural circuit imaging. <b>2017</b> , 105, 139-157		22

450	Recent developments of genetically encoded optical sensors for cell biology. <b>2017</b> , 109, 1-23		38
449	Perturbation of Akt Signaling, Mitochondrial Potential, and ADP/ATP Ratio in Acidosis-Challenged Rat Cortical Astrocytes. <b>2017</b> , 118, 1108-1117		8
448	Automated long-term recording and analysis of neural activity in behaving animals. <b>2017</b> , 6,		76
447	Green fluorescent genetically encoded calcium indicator based on calmodulin/M13-peptide from fungi. <b>2017</b> , 12, e0183757		16
446	The effect of magnolol on Ca homeostasis and its related physiology in human oral cancer cells. <b>2018</b> , 89, 49-54		9
445	The emerging use of bioluminescence in medical research. <b>2018</b> , 101, 74-86		19
444	A novel diarylethene-based photoswitchable chelator for reversible release and capture of Ca <sup>2+</sup> in aqueous media. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 360, 181-187	4-7	4
443	Fluorescent probes for the detection of magnesium ions (Mg): from design to application.. <b>2018</b> , 8, 12573-12587		7
442	Optical Probes for Neurobiological Sensing and Imaging. <b>2018</b> , 51, 1023-1032		32
441	Synthetic and genetically encoded fluorescent neural activity indicators. <b>2018</b> , 50, 101-108		26
440	Sensors for measuring subcellular zinc pools. <b>2018</b> , 10, 229-239		25
439	Optical Voltage Sensing Using DNA Origami. <b>2018</b> , 18, 1962-1971		31
438	Hypoxia induces pulmonary fibroblast proliferation through NFAT signaling. <b>2018</b> , 8, 2709		38
437	Differential equation methods for simulation of GFP kinetics in non-steady state experiments. <b>2018</b> , 29, 763-771		3
436	Fluorescent Ca indicators directly inhibit the Na,K-ATPase and disrupt cellular functions. <b>2018</b> , 11,		51
435	Enhanced selectivity for Mg with a phosphinate-based chelate: APDAP versus APTRA. <b>2018</b> , 47, 1879-1887		8
434	Encapsulated Optically Responsive Cell Systems: Toward Smart Implants in Biomedicine. <b>2018</b> , 7, e1701148		1
433	A fluorescent activatable probe for imaging intracellular Mg . <b>2018</b> , 16, 239-244		14

432	Nongenetic Optical Methods for Measuring and Modulating Neuronal Response. <b>2018</b> , 12, 4086-4095		25
431	Calcium-induced release of calcium in muscle: 50 years of work and the emerging consensus. <b>2018</b> , 150, 521-537		41
430	Recent progress in the development of organic dye based near-infrared fluorescence probes for metal ions. <b>2018</b> , 354, 74-97		211
429	Reaction-based BODIPY probes for selective bio-imaging. <b>2018</b> , 354, 121-134		196
428	Mast cell degranulation and calcium influx are inhibited by an Echinacea purpurea extract and the alkylamide dodeca-2E,4E-dienoic acid isobutylamide. <i>Journal of Ethnopharmacology</i> , <b>2018</b> , 212, 166-174 <sup>5</sup>		21
427	Concepts of All-Optical Physiology. <i>Neuromethods</i> , <b>2018</b> , 153-174	0.4	1
426	Optogenetics: A Roadmap. <i>Neuromethods</i> , <b>2018</b> ,	0.4	3
425	Imaging Ca with a Fluorescent Rhodol. <i>Biochemistry</i> , <b>2018</b> , 57, 237-240	3.2	8
424	The critical role of autophagy in cadmium-induced immunosuppression regulated by endoplasmic reticulum stress-mediated calpain activation in RAW264.7 mouse monocytes. <b>2018</b> , 393, 15-25		27
423	Water soluble chemosensor for Ca <sup>2+</sup> based on aggregation-induced emission characteristics and its fluorescence imaging in living cells. <b>2018</b> , 150, 112-120		15
422	Amitriptyline modulated Ca signaling and induced Ca-independent cell viability in human osteosarcoma cells. <b>2018</b> , 37, 125-134		1
421	Roger Yonchien Tsien. 1 February 1952–4 August 2016. <b>2018</b> , 65, 405-428		
420	Hippocampal mGluR1-dependent long-term potentiation requires NAADP-mediated acidic store Ca signaling. <b>2018</b> , 11,		24
419	Mitochondria-Targeted DNA Nanoprobe for Real-Time Imaging and Simultaneous Quantification of Ca and pH in Neurons. <b>2018</b> , 12, 12357-12368		70
418	The investigation of the pyrethroid insecticide lambda-cyhalothrin (LCT)-affected Ca homeostasis and -activated Ca-associated mitochondrial apoptotic pathway in normal human astrocytes: The evaluation of protective effects of BAPTA-AM (a selective Ca chelator). <b>2018</b> , 69, 97-107		7
417	The Extracellular Zn Concentration Surrounding Excited Neurons Is High Enough to Bind Amyloid- $\beta$ Revealed by a Nanowire Transistor. <b>2018</b> , 14, e1704439		6
416	Novel chemical sensor for detection Ca(II) ions based on ferutinin. <b>2018</b> , 205, 264-268		5
415	Fluorescent, Bioluminescent, and Optogenetic Approaches to Study Excitable Physiology in the Single Cardiomyocyte. <b>2018</b> , 7,		25

414	Pharmacological Strategies for Manipulating Plant Ca Signalling. <b>2018</b> , 19,	20
413	Optical Electrophysiology in the Developing Heart. <b>2018</b> , 5,	4
412	Studying the Brain in a Dish: 3D Cell Culture Models of Human Brain Development and Disease. <b>2018</b> , 129, 99-122	23
411	A simple end-point assay for calcium channel activity. <i>Cell Calcium</i> , <b>2018</b> , 74, 73-85	4 2
410	Learning to predict action potentials end-to-end from calcium imaging data. <b>2018</b> ,	2
409	Tracking the sarcoplasmic reticulum membrane voltage in muscle with a FRET biosensor. <b>2018</b> , 150, 1163-1177	
408	HSV-1-induced disruption of transcription termination resembles a cellular stress response but selectively increases chromatin accessibility downstream of genes. <b>2018</b> , 14, e1006954	36
407	Molecular Sensors for NMR-Based Detection. <b>2019</b> , 119, 195-230	48
406	Stores, Channels, Glue, and Trees: Active Glial and Active Dendritic Physiology. <b>2019</b> , 56, 2278-2299	12
405	Development of Zinc-Specific iCEST MRI as an Imaging Biomarker for Prostate Cancer. <b>2019</b> , 58, 15512-15517	9
404	Isomeric Tuning Yields Bright and Targetable Red Ca Indicators. <b>2019</b> , 141, 13734-13738	23
403	Development of Zinc-Specific iCEST MRI as an Imaging Biomarker for Prostate Cancer. <b>2019</b> , 131, 15658-15663	0
402	Measurement of Store-Operated Calcium Entry in Human Neural Cells: From Precursors to Differentiated Neurons. <b>2019</b> , 2029, 257-271	1
401	Progenitor Cells. <b>2019</b> ,	1
400	Design of Multifunctional Fluorescent Hybrid Materials Based on SiO Materials and Core-Shell Fe O @SiO Nanoparticles for Metal Ion Sensing. <b>2019</b> , 15, e1904569	33
399	Design and Applications of Small Molecular Probes for Calcium Detection. <b>2019</b> , 14, 4493-4505	13
398	Two-Photon Imaging of Dendritic Calcium Dynamics In Vivo. <i>Neuromethods</i> , <b>2019</b> , 279-295	0.4
397	Calcium oscillations in blood platelets and their possible role in 'interpreting' extracellular information by cells. <b>2019</b> , 62, 660-674	0

396	High-throughput-compatible assays using a genetically-encoded calcium indicator. <b>2019</b> , 9, 12692	15
395	Using Genetically Encoded Voltage Indicators (GEVIs) to Study the Input-Output Transformation of the Mammalian Olfactory Bulb. <b>2019</b> , 13, 342	10
394	Investigation of cation binding and sensing by new crown ether core substituted naphthalene diimide systems. <b>2019</b> , 43, 2011-2018	8
393	Methoxy-substituted tetrakisquinoline analogs of EGTA and BAPTA for fluorescence detection of Cd . <b>2019</b> , 48, 3840-3852	7
392	Methods to Measure Intracellular Ca Concentration Using Ca-Sensitive Dyes. <b>2019</b> , 1925, 43-58	2
391	Detection of Cu <sup>2+</sup> ions in aqueous solution via emission quenching of colloidal EuPO <sub>4</sub> ultrasmall nanoparticles. <b>2019</b> , 89, 142-148	8
390	A Synthetic Fluorescent Mitochondria-Targeted Sensor for Ratiometric Imaging of Calcium in Live Cells. <b>2019</b> , 58, 9917-9922	26
389	A Synthetic Fluorescent Mitochondria-Targeted Sensor for Ratiometric Imaging of Calcium in Live Cells. <b>2019</b> , 131, 10022-10027	0
388	Transient Receptor Potential V Channels Are Essential for Glucose Sensing by Aldolase and AMPK. <b>2019</b> , 30, 508-524.e12	39
387	Revisiting the role of calcium in phagosome formation and maturation. <b>2019</b> , 106, 837-851	12
386	The Life Science Toolbox Provided by Chemical Biology. <b>2019</b> , 59, 100-105	
385	Zinc homeostasis and zinc signaling in white matter development and injury. <b>2019</b> , 707, 134247	7
384	STIM1 structure-function and downstream signaling pathways. <i>Cell Calcium</i> , <b>2019</b> , 80, 101-102	4 2
383	Fluorescence-Based Functional Assays for Ca-Permeable ThermoTRP Channels. <b>2019</b> , 1987, 99-110	0
382	Imaging of Somatic Ca Transients in Differentiated Human Neurons. <b>2019</b> , 1942, 123-129	
381	A novel coumarin-based fluorescent sensor for Ca and sequential detection of F and its live cell imaging. <b>2019</b> , 216, 385-394	20
380	Fragile-X Syndrome. <b>2019</b> ,	0
379	Calcium signals that determine vascular resistance. <b>2019</b> , 11, e1448	28



378	Embryonic stem cells become mechanoresponsive upon exit from ground state of pluripotency. <b>2019</b> , 9, 180203		9
377	An aggregation-induced phosphorescence probe for calcium ion-specific detection and live-cell imaging in <i>Arabidopsis thaliana</i> . <i>Chemical Communications</i> , <b>2019</b> , 55, 4841-4844	5.8	16
376	Uncovering malathion (an organophosphate insecticide) action on Ca signal transduction and investigating the effects of BAPTA-AM (a cell-permeant Ca chelator) on protective responses in glial cells. <b>2019</b> , 157, 152-160		4
375	Imaging cell morphology and physiology using X-rays. <b>2019</b> , 47, 489-508		18
374	Open-Source Multiparametric Optocardiography. <b>2019</b> , 9, 721		10
373	Calcium signals are necessary to establish auxin transporter polarity in a plant stem cell niche. <i>Nature Communications</i> , <b>2019</b> , 10, 726	17.4	29
372	How to Build a Fast and Highly Sensitive Sound Detector That Remains Robust to Temperature Shifts. <b>2019</b> , 39, 7260-7276		11
371	Photoreversible stretching of a BAPTA chelator marshalling Ca-binding in aqueous media. <b>2019</b> , 15, 2801-2811		2
370	Co-functionalization with phosphate and carboxylate on polydiacetylene for colorimetric detection of calcium ions in serum. <b>2019</b> , 144, 7064-7070		7
369	Effects of timolol on Ca handling and viability in human prostate cancer cells. <b>2019</b> , 29, 138-145		2
368	Retinal Characterization of the Thy1-GCaMP3 Transgenic Mouse Line After Optic Nerve Transection. <b>2019</b> , 60, 183-191		6
367	State-of-the-art: functional fluorescent probes for bioimaging and pharmacological research. <b>2019</b> , 40, 717-723		9
366	Oxidation of 1,8-oxybis(ethyleneethoxyethylenethio)anthracene-9,10-dione into sulfoxide changes the selectivity: Synthesis, spectroscopy and X-ray crystallography. <b>2019</b> , 159, 226-232		0
365	A lysosomal targeting fluorescent probe and its zinc imaging in SH-SY5Y human neuroblastoma cells. <b>2019</b> , 30, 55-57		13
364	Ion channels and signaling pathways used in the fast polyspermy block. <b>2020</b> , 87, 350-357		7
363	Mechanisms underlying the effect of an oral antihyperglycaemic agent glyburide on calcium ion (Ca <sup>2+</sup> ) movement and its related cytotoxicity in prostate cancer cells. <b>2020</b> , 47, 111-118		1
362	Aktivitätsbasierte Sensorik: ein synthetisch-methodischer Ansatz für die selektive molekulare Bildgebung und darüber hinaus.. <b>2020</b> , 132, 13838-13867		17
361	Far-red to near-infrared fluorescent probes based on silicon-substituted xanthene dyes for sensing and imaging. <b>2020</b> , 122, 115704		12

360	Optical Measurement of Changes in Intracellular Calcium. <b>2020</b> , 118, 788-789	2
359	Activity-Based Sensing: A Synthetic Methods Approach for Selective Molecular Imaging and Beyond. <b>2020</b> , 59, 13734-13762	81
358	PKC signaling contributes to chromatin decondensation and is required for competence to respond to IL-2 during T cell activation. <b>2020</b> , 347, 104027	3
357	Sensitive Ratiometric Fluorescent Metal-Organic Framework Sensor for Calcium Signaling in Human Blood Ionic Concentration Media. <b>2020</b> , 12, 4625-4631	24
356	Scleral Lens Sensor for Ocular Electrolyte Analysis. <b>2020</b> , 32, e1906762	18
355	Physiology of Astroglial Excitability.. <b>2020</b> , 1, zqaa016	21
354	Cell Calcium Imaging as a Reliable Method to Study Neuron-Glial Circuits. <b>2020</b> , 14, 569361	10
353	SpiCee: A Genetic Tool for Subcellular and Cell-Specific Calcium Manipulation. <b>2020</b> , 32, 107934	3
352	Peripheral mechanisms of arthritic pain: A proposal to leverage large animals for studies. <b>2020</b> , 8, 100051	0
351	Quantitative Imaging of Biochemistry and at the Nanoscale. <b>2020</b> , 6, 1938-1954	14
350	Chemical Biology Toolbox for Studying Pancreatic Islet Function - A Perspective. <b>2020</b> , 27, 1015-1031	3
349	Mechanisms and Functional Consequences of Presynaptic Homeostatic Plasticity at Auditory Nerve Synapses. <b>2020</b> , 40, 6896-6909	5
348	Synthesis and Functions of Oligomeric and Multidentate Dipyrrin Derivatives and their Complexes. <b>2020</b> , 31, 1663-1680	2
347	Long-latency optical responses from the dorsal inferior colliculus of Seba's fruit bat. <b>2020</b> , 206, 831-844	2
346	Japanese Marine Life. <b>2020</b> ,	2
345	New conjugate of bis(o-aminophenoxy)ethane-N,N,N',N'-tetraacetate with naphthalimide as a fluorescent sensor for calcium cations. <b>2020</b> , 30, 332-335	2
344	Reliable measurement of free Ca concentrations in the ER lumen using Mag-Fluo-4. <i>Cell Calcium</i> , <b>2020</b> , 87, 102188	4 11
343	Ca signaling as a mechanism of haloperidol-induced cytotoxicity in human astrocytes and assessing the protective role of a Ca chelator. <b>2020</b> , 393, 2117-2127	

342	Approaches to Manipulate Ephrin-A:EphA Forward Signaling Pathway. <b>2020</b> , 13,		3
341	Nanotechnology enabled metal-ion-based disease diagnostics. <i>Science Bulletin</i> , <b>2020</b> , 65, 1587-1589	10.6	3
340	Calcium imaging and optical electrophysiology. <b>2020</b> , 105-141		
339	Intracellular signaling dynamics and their role in coordinating tissue repair. <b>2020</b> , 12, e1479		15
338	A Tetrakisquinoline Analog of Calcium Indicator Quin2 for Fluorescence Detection of Cd <sup>2+</sup> . <b>2020</b> , 2020, 757-763		4
337	Enhancing neuronal chloride extrusion rescues $\alpha/\beta$ GABA-mediated analgesia in neuropathic pain. <i>Nature Communications</i> , <b>2020</b> , 11, 869	17.4	19
336	Fucoidan Derived from Inhibits the Development of Human Ovarian Cancer via the Disturbance of Calcium Homeostasis, Endoplasmic Reticulum Stress, and Angiogenesis. <b>2020</b> , 18,		20
335	Developmental and Tumor Angiogenesis Requires the Mitochondria-Shaping Protein Opa1. <b>2020</b> , 31, 987-1003.e8		33
334	Action of the insecticide cyfluthrin on Ca signal transduction and cytotoxicity in human osteosarcoma cells. <b>2020</b> , 39, 1268-1276		1
333	Calcium storage and homeostasis in <i>Toxoplasma gondii</i> . <b>2020</b> , 547-575		1
332	Cytotoxic Effects of Mesaconitine, the <i>Aconitum carmichaelii</i> Debx Bioactive Compound, on HBEC-5i Human Brain Microvascular Endothelial Cells: Role of Ca Signaling-Mediated Pathway. <i>Neurotoxicity Research</i> , <b>2021</b> , 39, 256-265	4.3	0
331	G protein-coupled receptor signal transduction and Ca signaling pathways of the allatotropin/orexin system in Hydra. <b>2021</b> , 300, 113637		0
330	Designing magnesium-selective ligands using coordination chemistry principles. <b>2021</b> , 428, 213622		3
329	Fluorescence lifetime predicts performance of voltage sensitive fluorophores in cardiomyocytes and neurons. <b>2021</b> , 2, 248-258		5
328	Supramolecular Fluorescent Sensors: An Historical Overview and Update. <b>2021</b> , 427,		36
327	Simultaneous determination of intraluminal lysosomal calcium and pH by dextran-conjugated fluorescent dyes. <b>2021</b> , 165, 199-208		2
326	Determination of the Dynamics of Change in the Intracellular Pool of Zinc Ions in Human Erythrocytes Using a FluoZin-3 Fluorescent Probe. <b>2021</b> , 87, 1094-1099		
325	OUP accepted manuscript.		7

324	Chemosensors Development for Selective Detection of Biologically Relevant Small Molecules and Biomolecules. <b>2021</b> , 229-251	
323	Spatio-temporal parameters for optical probing of neuronal activity. <b>2021</b> , 13, 13-33	0
322	Synthetic Biological Approaches for Optogenetics and Tools for Transcriptional Light-Control in Bacteria. <b>2021</b> , 5, e2000256	12
321	Calcium imaging analysis - how far have we come?. <b>2021</b> , 10, 258	
320	Principles and practice of determining metal-protein affinities. <i>Biochemical Journal</i> , <b>2021</b> , 478, 1085-1116	7
319	MCOLN1/TRPML1 finely controls oncogenic autophagy in cancer by mediating zinc influx. <b>2021</b> , 1-22	8
318	Novel Tools and Investigative Approaches for the Study of Oligodendrocyte Precursor Cells (NG2-Glia) in CNS Development and Disease. <b>2021</b> , 15, 673132	3
317	Influence of a bearing-wastewater phenolic compound (3,4-dimethylphenol, 3,4-DMP) treatment on Ca homeostasis and its related cytotoxicity in human proximal renal tubular epithelial cells. <b>2021</b> , 40, 1899-1908	
316	Small Molecule-based Alkaline-earth Metal Ion Fluorescent Probes for Imaging Intracellular and Intercellular Multiple Signals. <b>2021</b> , 50, 870-887	3
315	A novel Ca indicator for long-term tracking of intracellular calcium flux. <b>2021</b> , 70, 271-277	4
314	MYH9 facilitates autoregulation of adipose tissue depot development. <b>2021</b> , 6,	0
313	Optical Electrophysiology: Toward the Goal of Label-Free Voltage Imaging. <b>2021</b> , 143, 10482-10499	5
312	Photoacoustic Neuroimaging - Perspectives on a Maturing Imaging Technique and its Applications in Neuroscience. <b>2021</b> , 15, 655247	5
311	Live and Let Dye. <i>Biochemistry</i> , <b>2021</b> , 60, 3539-3546	3.2 2
310	Vasotocin stimulates maturation-inducing hormone, oocyte maturation and ovulation in the catfish <i>Heteropneustes fossilis</i> : Evidence for a preferential calcium involvement. <b>2021</b> , 167, 51-60	1
309	The Cell Fate Controlling CLE40 Peptide Requires CNGCs to Trigger Highly Localized Ca <sup>2+</sup> Transients in <i>Arabidopsis thaliana</i> Root Meristems. <b>2021</b> , 62, 1290-1301	4
308	A calcium optimum for cytotoxic T lymphocyte and natural killer cell cytotoxicity. <b>2021</b> , 115, 10-18	2
307	Investigation of cytotoxic effect of the bufanolide steroid compound cinobufagin and its related underlying mechanism in brain cell models. <b>2021</b> , 35, e22862	0

306	Origins of Ca Imaging with Fluorescent Indicators. <i>Biochemistry</i> , <b>2021</b> , 60, 3547-3554	3.2	1
305	Global Mapping of Metalloproteomes. <i>Biochemistry</i> , <b>2021</b> , 60, 3507-3514	3.2	1
304	Current Review of Optical Neural Interfaces for Clinical Applications. <b>2021</b> , 12,		0
303	Calcium imaging analysis [how far have we come?]. <b>2021</b> , 10, 258		0
302	Illuminating the hidden world of calcium ions in plants with a universe of indicators.		8
301	A Comprehensive Study of the Ca <sup>2+</sup> Ion Binding of Fluorescently Labelled BAPTA Analogues. <b>2021</b> , 2021, 5248		0
300	Simultaneous Triple-Parametric Optical Mapping of Transmembrane Potential, Intracellular Calcium and NADH for Cardiac Physiology Assessment.		
299	Coming full circle: In vivo Veritas, or expanding the neuroscience frontier. <i>Cell Calcium</i> , <b>2021</b> , 98, 1024524		
298	Democratizing calcium visualization. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101181	5.4	1
297	Holographic Imaging and Stimulation of Neural Circuits. <b>2021</b> , 1293, 613-639		2
296	Fluorescent Chemosensors. <b>2021</b> , 377-408		
295	History of Optical Mapping. <b>2021</b> , 41-45		
294	Mt-fura-2, a Ratiometric Mitochondria-Targeted Ca Sensor. Determination of Spectroscopic Properties and Ca Imaging Assays. <b>2021</b> , 2275, 187-215		0
293	Photo-release of Metal Ions in Living Cells. 275-308		2
292	Monitoring Intracellular Ca <sup>2+</sup> in Brain Slices with Fluorescent Indicators. <b>2005</b> , 12-26		1
291	Mitochondrial Calcium: Role in the Normal and Ischaemic/Reperfused Myocardium. <b>2007</b> , 197-220		1
290	Chemistry and Biochemistry of Calcium. <b>1988</b> , 1-26		3
289	Calcium as an Intracellular Regulator. <b>1988</b> , 261-316		2

288	New Perspectives on Ca <sup>2+</sup> Influx in Mast Cells. <b>1999</b> , 227-246	1
287	Regulation of Intracellular Free Calcium. <b>1996</b> , 427-446	3
286	Mechanisms of $\beta$ -Adrenergic and Related Responses. <b>1987</b> , 113-182	4
285	An Assessment of the Usefulness of Quin-2-AM for Cytoplasmic Calcium Measurements in Plant Cells. <b>1986</b> , 371-372	1
284	Some Practical Aspects of the Application of Quin-2 to Plant Systems. <b>1986</b> , 373-374	1
283	Calcium and Diacylglycerol. <b>1985</b> , 155-164	1
282	Intracellular Calcium as a Second Messenger. <b>1985</b> , 23-33	7
281	Biophysical Mechanisms of Computation in a Looming Sensitive Neuron. <b>2014</b> , 277-293	1
280	Activation and relaxation mechanisms in single muscle fibres. <b>1993</b> , 332, 97-114; discussion 114-5	9
279	Intracellular regulation of GABA <sub>A</sub> -receptor function. <b>1992</b> , 3, 83-136	14
278	ATP-activated channels in excitable cells. <b>1990</b> , 2, 169-203	63
277	Kinetic Studies of the Activation of Cyclic Nucleotide Phosphodiesterase by Ca <sup>++</sup> and Calmodulin. <b>1982</b> , 199-217	2
276	A molecular biologic approach to cardiac toxicology. <b>1983</b> , 161, 509-18	11
275	The Regulation of Free Ca <sup>2+</sup> Ion Concentration by Metal Chelators. <b>1984</b> , 63-75	7
274	Calcium compartmentation and regulation in myocytes. <b>1986</b> , 194, 573-90	1
273	Calcium Pulses, Waves, and Gradients in Early Development. <b>1989</b> , 313-321	3
272	Optical and Redox Sensors for Metal Ions. <b>2001</b> , 307-364	1
271	Optical Sensors with Metal Ions. <b>1999</b> , 317-347	6

270	Imaging Ca <sup>2+</sup> signals in <i>Xenopus</i> oocytes. <b>2006</b> , 322, 103-19	14
269	Visually Guided Patch-Clamp Recordings in Brain Slices. <i>Neuromethods</i> , <b>2007</b> , 169-227	0.4 10
268	Using calcium imaging as a readout of GPCR activation. <b>2011</b> , 746, 277-96	8
267	Measuring Ca in Living Cells. <b>2020</b> , 1131, 7-26	6
266	High-Throughput Fluorescence Assays for Ion Channels and GPCRs. <b>2020</b> , 1131, 27-72	7
265	Brain Function: Novel Technologies Driving Novel Understanding. <b>2014</b> , 299-334	4
264	Optical Recording from Populations of Neurons in Brain Slices. <b>1999</b> , 459-486	5
263	Concentration Profiles of Intracellular Calcium in the Presence of a Diffusible Chelator. <b>1986</b> , 80-96	44
262	Some New Questions Concerning the Role of Ca <sup>2+</sup> in Exocytosis. <b>1988</b> , 305-338	3
261	Calcium Chelators and Calcium Ionophores. <b>1988</b> , 491-507	3
260	Fluorescence Lifetime Imaging and Application to Ca <sup>2+</sup> Imaging. <b>1993</b> , 129-147	3
259	The Roles of Intermembrane Calcium in Polarizing and Activating Eggs. <b>1990</b> , 389-417	9
258	Optical Technology until the Year 2000: An Historical Overview. <b>2004</b> , 1-34	10
257	In Vivo Ca <sup>2+</sup> Imaging of Neuronal Activity. <b>2013</b> , 71-87	1
256	Development and optimization of FLIPR high throughput calcium assays for ion channels and GPCRs. <b>2012</b> , 740, 45-82	27
255	Calcium signaling: breast cancer's approach to manipulation of cellular circuitry. <b>2020</b> , 12, 1343-1359	5
254	NEW FLUORESCENT PROBES FOR CELL BIOLOGY. <b>1993</b> , 1-25	2
253	PHOTOSENSITIVE CAGED COMPOUNDS: Design, Properties, and Biological Applications. <b>1993</b> , 27-85	3

252	REAL-TIME FLUORESCENCE MICROSCOPY IN LIVING CELLS. <b>1993</b> , 213-235		2
251	CALCIUM AND LYMPHOCYTE ACTIVATION. <b>1982</b> , 397-415		3
250	Intracellular Calcium and Normal Eukaryotic Cell Growth. <b>1987</b> , 395-431		4
249	Production of superoxide by phagocytic leukocytes: a paradigm for stimulus-response phenomena. <b>1986</b> , 28, 183-208		58
248	Calcium as intracellular messenger: from simplicity to complexity. <b>1990</b> , 31, 1-109		71
247	Role of Calcium in Mediating Cellular Functions Important for Growth and Development in Higher Plants. <b>1982</b> , 409-453		40
246	Toxicological Implications of Perturbation of Ca <sup>2+</sup> Homeostasis in Hepatocytes. <b>1986</b> , 185-208		8
245	Methods for the Measurement of Intracellular Ionized Calcium in Mammalian Cells: Comparison of Four Classes of Ca <sup>2+</sup> Indicators. <b>1987</b> , 159-200		7
244	Intracellular Calcium Levels in Rat Anterior Pituitary Cells: Single-Cell Techniques. <b>1989</b> , 267-288		1
243	Receptor Regulation of Phosphoinositides and Calcium: A Mechanism for Thyrotropin-Releasing Hormone Action. <b>1986</b> , 173-212		1
242	GTP-Binding Proteins and Exocytotic Secretion. <b>1990</b> , 601-637		4
241	Mechanisms Involved in the Actions of Calcium-Dependent Hormones. <b>1985</b> , 215-235		5
240	Intracellular Ion Indicators. <b>1999</b> , 40-50		10
239	Flow Cytometry: Use of Multiparameter Kinetics to Evaluate Several Activation Parameters Simultaneously in Individual Living Cells. <b>1999</b> , 527-539		2
238	Intracellular Mg <sup>2+</sup> movement during muscarinic stimulation. Mg <sup>2+</sup> uptake by the intracellular Ca <sup>2+</sup> store in rat sublingual mucous acini.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 10352-10356	5-4	11
237	The role of subunit autolysis in activation of smooth muscle Ca <sup>2+</sup> -dependent proteases.. <i>Journal of Biological Chemistry</i> , <b>1986</b> , 261, 4170-4176	5-4	31
236	Thyrotropin-releasing hormone and GTP activate inositol trisphosphate formation in membranes isolated from rat pituitary cells.. <i>Journal of Biological Chemistry</i> , <b>1986</b> , 261, 2712-2717	5-4	108
235	Inhibition by islet-activating protein of a chemotactic peptide-induced early breakdown of inositol phospholipids and Ca <sup>2+</sup> mobilization in guinea pig neutrophils.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 15771-15780	5-4	177



234	The role of extracellular Ca <sup>2+</sup> in the response of the hepatocyte to Ca <sup>2+</sup> -dependent hormones.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 12508-12515	5-4	81
233	Signal transduction and ligand-receptor dynamics in the neutrophil. Ca <sup>2+</sup> modulation and restoration.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 11468-11475	5-4	53
232	Association of the changes in cytosolic Ca <sup>2+</sup> and iodide efflux induced by thyrotropin and by the stimulation of alpha 1-adrenergic receptors in cultured rat thyroid cells.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 9230-9236	5-4	86
231	Growth factors immediately raise cytoplasmic free Ca <sup>2+</sup> in human fibroblasts.. <i>Journal of Biological Chemistry</i> , <b>1984</b> , 259, 8066-8069	5-4	272
230	The mechanism of the calcium signal and correlation with histamine release in 2H3 cells.. <i>Journal of Biological Chemistry</i> , <b>1984</b> , 259, 7129-7136	5-4	266
229	Inositol 1,4,5,6-tetrakisphosphate is phosphorylated in rat liver by a 3-kinase that is distinct from inositol 1,4,5-trisphosphate 3-kinase.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 4337-4342	5-4	20
228	Lead activation of protein kinase C from rat brain. Determination of free calcium, lead, and zinc by 19F NMR.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 834-837	5-4	106
227	Agonist and antagonist properties of calmodulin fragments.. <i>Journal of Biological Chemistry</i> , <b>1984</b> , 259, 4419-4426	5-4	158
226	myo-Inositol 1,4,5-trisphosphate. A second messenger for the hormonal mobilization of intracellular Ca <sup>2+</sup> in liver.. <i>Journal of Biological Chemistry</i> , <b>1984</b> , 259, 3077-3081	5-4	393
225	Novel type of very high affinity calcium-binding sites in beta-hydroxyasparagine-containing epidermal growth factor-like domains in vitamin K-dependent protein S.. <i>Journal of Biological Chemistry</i> , <b>1990</b> , 265, 18481-18489	5-4	58
224	Changes in free cytosolic Ca <sup>2+</sup> in hepatocytes following alpha 1-adrenergic stimulation. Studies on Quin-2-loaded hepatocytes.. <i>Journal of Biological Chemistry</i> , <b>1983</b> , 258, 8769-8773	5-4	261
223	Free cytoplasmic calcium concentration and the mitogenic stimulation of lymphocytes.. <i>Journal of Biological Chemistry</i> , <b>1983</b> , 258, 4876-4882	5-4	316
222	Phospholamban expressed in slow-twitch and chronically stimulated fast-twitch muscles minimally affects calcium affinity of sarcoplasmic reticulum Ca(2+)-ATPase.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 26056-26061	5-4	80
221	Factors determining the specificity of signal transduction by guanine nucleotide-binding protein-coupled receptors. III. Coupling of alpha 2-adrenergic receptor subtypes in a cell type-specific manner.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 24045-24052	5-4	68
220	Ca <sup>2+</sup> and pH responses to sequential additions of mitogens in single 3T3 fibroblasts: correlations with DNA synthesis.. <i>Journal of Biological Chemistry</i> , <b>1988</b> , 263, 11879-11886	5-4	46
219	Purification and characterization of inositol-1,3,4-trisphosphate 5/6-kinase from rat liver using an inositol hexakisphosphate affinity column.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 22340-22345	5-4	30
218	Purification of a phosphoinositide-specific phospholipase C from bovine brain.. <i>Journal of Biological Chemistry</i> , <b>1987</b> , 262, 12526-12532	5-4	78
217	Depletion of intracellular calcium stores by calcium ionophore A23187 induces the genes for glucose-regulated proteins in hamster fibroblasts.. <i>Journal of Biological Chemistry</i> , <b>1987</b> , 262, 12801-12805	5-4	139

216	Specific enhancement of the cardiac myofibrillar ATPase by bound creatine kinase.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 2480-2486	5-4	41
215	Functional determinants in the autoinhibitory domain of calcium/calmodulin-dependent protein kinase II. Role of His282 and multiple basic residues.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 1761-1768	5-4	74
214	The role of the matrix calcium level in the enhancement of mitochondrial pyruvate carboxylation by glucagon pretreatment.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 370-379	5-4	29
213	Hydrolysis of short acyl chain inositol lipids by phospholipase C-delta 1.. <i>Journal of Biological Chemistry</i> , <b>1993</b> , 268, 1735-1741	5-4	43
212	Ligand-induced internalization and increased cell calcium are mediated via distinct structural elements in the carboxyl terminus of the epidermal growth factor receptor.. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 23467-23470	5-4	40
211	Tight binding of divalent cations to monomeric actin. Binding kinetics support a simplified model.. <i>Journal of Biological Chemistry</i> , <b>1987</b> , 262, 4952-4957	5-4	41
210	Rapid mobilization of cellular Ca <sup>2+</sup> in bovine parathyroid cells evoked by extracellular divalent cations. Evidence for a cell surface calcium receptor.. <i>Journal of Biological Chemistry</i> , <b>1987</b> , 262, 5188-5196	5-4	162
209	Evidence for the interaction between the calcium indicator 1,2-bis(o-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid and calcium-binding proteins.. <i>Journal of Biological Chemistry</i> , <b>1986</b> , 261, 16306-16308	5-4	24
208	Thyrotropin-releasing hormone stimulation of polyphosphoinositide hydrolysis in GH3 cell membranes is GTP dependent but insensitive to cholera or pertussis toxin.. <i>Journal of Biological Chemistry</i> , <b>1986</b> , 261, 10141-10149	5-4	28
207	Novel kinetics of single cell Ca <sup>2+</sup> transients in stimulated hepatocytes and A10 cells measured using fura-2 and fluorescent videomicroscopy.. <i>Journal of Biological Chemistry</i> , <b>1988</b> , 263, 4569-4575	5-4	69
206	Fluorescent indicators for cytosolic calcium based on rhodamine and fluorescein chromophores. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 8171-8178	5-4	1204
205	Cytosolic Free Magnesium Levels in Ischemic Rat Heart. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 5622-5627	5-4	164
204	Interactions between insulin and alpha 1-adrenergic agents in the regulation of glycogen metabolism in isolated hepatocytes.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 5963-5973	5-4	35
203	Cytosolic Ca <sup>2+</sup> homeostasis in Ehrlich and Yoshida carcinomas. A new, membrane-permeant chelator of heavy metals reveals that these ascites tumor cell lines have normal cytosolic free Ca <sup>2+</sup> .. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 2719-2727	5-4	359
202	Measurement of ionized calcium in blood platelets with the photoprotein aequorin. Comparison with Quin 2.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 2069-2076	5-4	145
201	Kinetic studies of calcium binding to regulatory complexes from skeletal muscle.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 252-261	5-4	63
200	Relationship between inositol polyphosphate production and the increase of cytosolic free Ca <sup>2+</sup> induced by vasopressin in isolated hepatocytes.. <i>Journal of Biological Chemistry</i> , <b>1984</b> , 259, 5574-5584	5-4	243
199	Thyrotropin-releasing hormone-induced spike and plateau in cytosolic free Ca <sup>2+</sup> concentrations in pituitary cells. Relation to prolactin release.. <i>Journal of Biological Chemistry</i> , <b>1984</b> , 259, 5827-5832	5-4	126

198	Calcium binding to calmodulin and its globular domains. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 8050-8054	382
197	Endothelial cell sodium-potassium-chloride cotransport. Evidence of regulation by Ca <sup>2+</sup> and protein kinase C. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 11559-11566	5-4 44
196	Positive heterotropic allosteric regulators of dihydropyridine binding increase the Ca <sup>2+</sup> affinity of the L-type Ca <sup>2+</sup> channel. Stereoselective reversal by the novel Ca <sup>2+</sup> antagonist BM 20.1140. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 10787-10795	5-4 18
195	A genetically engineered, protein-based optical biosensor of myosin II regulatory light chain phosphorylation.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 12880-12887	5-4 34
194	Evidence for the Direct Interaction Between Tightly Bound Divalent Metal Ion and ATP on Actin. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 20871-20880	5-4 40
193	The Chemistry of Fluorescent Indicators: the Work of Roger Y. Tsien. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, e29-e31	5-4 5
192	Modulation of RNA expression by intracellular calcium. Existence of a threshold calcium concentration for induction of VL30 RNA by epidermal growth factor, endothelin, and protein kinase C.. <i>Journal of Biological Chemistry</i> , <b>1990</b> , 265, 11000-11007	5-4 20
191	Calbindin-D28K, a 1 alpha,25-dihydroxyvitamin D3-induced calcium-binding protein, binds five or six Ca <sup>2+</sup> ions with high affinity.. <i>Journal of Biological Chemistry</i> , <b>1990</b> , 265, 9838-9841	5-4 31
190	Calcium binding to extracellular sites of skeletal muscle calcium channels regulates dihydropyridine binding.. <i>Journal of Biological Chemistry</i> , <b>1990</b> , 265, 177-182	5-4 19
189	Cytoplasmic Ca <sup>2+</sup> is necessary for thrombin-induced platelet activation. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 19600-19606	5-4 48
188	Fluorescent indicators for cytosolic sodium. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 19449-19457	5-4 493
187	Growth factor stimulation of phospholipase C-gamma 1 activity. Comparative properties of control and activated enzymes.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 10447-10456	5-4 107
186	Dependence of hepatocytic autophagy on intracellularly sequestered calcium.. <i>Journal of Biological Chemistry</i> , <b>1993</b> , 268, 26107-26112	5-4 120
185	Differential effects of phorbol ester on phenylephrine and vasopressin-induced Ca <sup>2+</sup> mobilization in isolated hepatocytes.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 3281-3288	5-4 135
184	A new generation of Ca <sup>2+</sup> indicators with greatly improved fluorescence properties.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 3440-3450	5-4 16266
183	Purification and characterization of an Hl,2-mannosidase involved in processing asparagine-linked oligosaccharides. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 3869-3876	5-4 35
182	Redundancy of biological regulation as the basis of emergence of multidrug resistance. <b>2005</b> , 246, 1-29	33
181	Regulation of calcium channels in the heart. <b>1995</b> , 30, 25-88	17

180	Functionalized macrocyclic ligands as sensory molecules for metal ions. <b>2000</b> , 99-137		7
179	Supramolecular photoionic devices. <b>1997</b> , 1-53		14
178	Calcium, a messenger under the spotlight. <b>2009</b> , 11, S15-S15		1
177	A novel self-assembled Na{CuZn} multifunctional material: first report of a discrete coordination compound for detection of Ca ions and selective adsorption of cationic dyes in water. <b>2020</b> , 49, 3423-3433		9
176	Use of fluorescent Ca <sup>2+</sup> dyes with green fluorescent protein and its variants: problems and solutions. <i>Biochemical Journal</i> , <b>2001</b> , 356, 345-52	3.8	22
175	Current problems and future avenues in proteoliposome research. <b>2020</b> , 48, 1473-1492		15
174	Nonexocytotic noradrenaline release from rat cardiac synaptosomal-mitochondrial fractions. <b>1997</b> , 30, 302-8		3
173	Automated long-term recording and analysis of neural activity in behaving animals.		7
172	Identification of cellular-activity dynamics across large tissue volumes in the mammalian brain.		8
171	Calmodulin increases the sensitivity of type 3 inositol-1,4, 5-trisphosphate receptors to Ca(2+) inhibition in human bronchial mucosal cells. <b>2000</b> , 57, 564-7		28
170	Effect of bile on <i>Vibrio parahaemolyticus</i> . <b>1997</b> , 63, 2372-7		37
169	Independence of neutrophil respiratory burst oxidant generation from the early cytosolic calcium response after stimulation with unopsonized <i>Candida albicans</i> hyphae. <b>1989</b> , 57, 1499-505		8
168	Internalization of <i>Shigella flexneri</i> into HeLa cells occurs without an increase in cytosolic Ca <sup>2+</sup> concentration. <b>1989</b> , 57, 2919-22		25
167	Roles of calcium ions in hyphal tip growth. <b>1993</b> , 57, 367-82		196
166	Angiotensin II and other hypertrophic stimuli mediated by G protein-coupled receptors activate tyrosine kinase, mitogen-activated protein kinase, and 90-kD S6 kinase in cardiac myocytes. The critical role of Ca(2+)-dependent signaling. <b>1995</b> , 76, 1-15		278
165	Oxygen-derived free radical stress activates nonselective cation current in guinea pig ventricular myocytes. Role of sulfhydryl groups. <b>1995</b> , 76, 812-24		33
164	[Ca <sup>2+</sup> ] <sub>i</sub> inhibition of K <sup>+</sup> channels in canine pulmonary artery. Novel mechanism for hypoxia-induced membrane depolarization. <b>1995</b> , 77, 131-9		169
163	Role of Ca <sup>2+</sup> in metabolic inhibition-induced norepinephrine release in rat brain synaptosomes. <b>1997</b> , 80, 179-88		11

162	Effect of common agonists on cytoplasmic ionized calcium concentration in platelets. Measurement with 2-methyl-6-methoxy 8-nitroquinoline (quin2) and aequorin. <b>1986</b> , 77, 878-86	82
161	Mechanisms of arrhythmogenic delayed and early afterdepolarizations in ferret ventricular muscle. <b>1986</b> , 78, 1185-92	254
160	Analysis of prostaglandin E2 effect on T lymphocyte activation. Abrogation of prostaglandin E2 inhibitory effect by the tumor promotor 12.0 tetradecanoyl phorbol-13 acetate. <b>1987</b> , 80, 333-40	81
159	Modulation by 1,25-dihydroxycholecalciferol of the acute change in cytosolic free calcium induced by thyrotropin-releasing hormone in GH4C1 pituitary cells. <b>1988</b> , 81, 661-8	17
158	Inhibition of cortical collecting tubule chloride transport by organic acids. <b>1988</b> , 82, 57-64	6
157	Disparate effects of interferon-gamma and tumor necrosis factor-alpha on early neutrophil respiratory burst and fungicidal responses to <i>Candida albicans</i> hyphae in vitro. <b>1991</b> , 87, 711-20	69
156	Correlates of aldosterone-induced increases in $Ca^{2+}$ and $I_{sc}$ suggest that $Ca^{2+}$ is the second messenger for stimulation of apical membrane conductance. <b>1992</b> , 89, 150-6	36
155	Corticotropin-releasing hormone excites adrenocorticotropin-secreting human pituitary adenoma cells by activating a nonselective cation current. <b>1996</b> , 98, 2033-41	18
154	Oxidative stress activates extracellular signal-regulated kinases through Src and Ras in cultured cardiac myocytes of neonatal rats. <b>1997</b> , 100, 1813-21	564
153	Acid sensing in renal epithelial cells. <b>2004</b> , 114, 1696-9	15
152	Fluorescent Calcium Indicators Based on BAPTA. <b>2005</b> , 1-50	3
151	Normal and Abnormal Calcium Homeostasis in Neurons: A Basis for the Pathophysiology of Traumatic and Ischemic Central Nervous System Injury. <b>1996</b> , 38, 1176-1195	134
150	Calcium requirements during mitotic cdc2 kinase activation and cyclin degradation in <i>Xenopus</i> egg extracts. <b>1995</b> , 108, 3557-3568	22
149	pH-dependent regulation of lysosomal calcium in macrophages. <b>2002</b> , 115, 599-607	356
148	The Movement of Cadmium Through Freshwater Trout Branchial Epithelium and its Interference with Calcium Transport. <b>1989</b> , 145, 185-197	210
147	Exposure to GSM RF fields does not affect calcium homeostasis in human endothelial cells, rat pheochromocytoma cells or rat hippocampal neurons. <b>2010</b> , 5, e11828	34
146	Selective activation of $KCa_{3.1}$ and CRAC channels by P2Y2 receptors promotes $Ca^{2+}$ signaling, store refilling and migration of rat microglial cells. <b>2013</b> , 8, e62345	41
145	Extracellular $Ca^{2+}$ Is Required for Fertilization in the African Clawed Frog, <i>Xenopus laevis</i> . <b>2017</b> , 12, e0170405 7	

- 144 Establishment of a NanoBiT-Based Cytosolic Ca Sensor by Optimizing Calmodulin-Binding Motif and Protein Expression Levels. **2020**, 43, 909-920 8
- 143 Fibronectin induces pseudopod formation and cell migration by mobilizing internal Ca(2+) in blastoderm cells from medaka embryos. **1999**, 49, 527-39 3
- 142 Quantitative Determination of Ca-binding to Ca-sensor Proteins by Isothermal Titration Calorimetry. **2020**, 10, e3580 2
- 141 LipiSensors: Exploiting Lipid Nanoemulsions to Fabricate Ionophore-Based Nanosensors. **2020**, 10, 4
- 140 Intracellular Calcium Dysregulation by the Alzheimer's Disease-Linked Protein Presenilin 2. **2020**, 21, 22
- 139 Panax ginseng induces the expression of CatSper genes and sperm hyperactivation. **2014**, 16, 845-51 15
- 138 Formation of a Unique 1:2 Calcium-Calixquinone Complex in Aqueous Media. **2011**, 32, 793-799 1
- 137 CaRuby-Nano: a novel high affinity calcium probe for dual color imaging. **2015**, 4, 22
- 136 Dendritic sodium spikes are required for long-term potentiation at distal synapses on hippocampal pyramidal neurons. **2015**, 4, 50
- 135 TORC2-Gad8-dependent myosin phosphorylation modulates regulation by calcium. **2019**, 8, 2
- 134 Mechanism of action of a diterpene alkaloid hyaconitine on cytotoxicity and inhibitory effect of BAPTA-AM in HCN-2 neuronal cells. **2021**, 48, 801-810
- 133 Optimization of Near-Infrared Fluorescence Voltage-Sensitive Dye Imaging for Neuronal Activity Monitoring in the Rodent Brain. **2021**, 15, 742405 0
- 132 Inhibition of the pesticide rotenone-induced Ca signaling, cytotoxicity and oxidative stress in HCN-2 neuronal cells by the phenolic compound hydroxytyrosol. **2021**, 179, 104979 1
- 131 Squaraine-Based Optical Sensors: Designer Toolbox for Exploring Ionic and Molecular Recognitions. **2021**, 9, 302 2
- 130 The action of calcium antagonists on Ca<sup>2+</sup> movements in isolated vessels. **2004**, 81-112
- 129 Measuring Single Cell and Subcellular Ca<sup>2+</sup> Signals. **2005**, 387-416
- 128 Chemokine and Chemokine Receptor Analysis. **2006**, 371-384
- 127 Tertiary structure in 7.9Å guanidinium chloride: the role of Glu53 and Asp287 in *Pyrococcus furiosus* endo-β-1,3-glucanase. **2007**, 071115064009001-??? 2

126 Intracellular Ca<sup>2+</sup> measurements in living cells. **2008**, 67, 81-88

125 Are Caged Compounds Still Useful?. *Neuromethods*, **2011**, 39-56

0.4 1

124 Transporter Current Measurements. **2012**, 195-206

123 CHAPTER 8:Reconfigurable Double InputSingle Output Systems. **2012**, 195-209

122 CHAPTER 7:Double InputSingle Output Systems. **2012**, 114-194

121 CHAPTER 14:Applications. **2012**, 336-383

120 CHAPTER 10:More Complex Systems. **2012**, 228-284

119 Regulation | Indicators of Intracellular Calcium. **2013**, 568-573

118 Indicators of Intracellular Calcium. **2013**, 574-579

117 Intravital Two-Photon Excitation Microscopy in Neuroscience: General Concepts and Applications. **2014**, 1-23

116 Excitation-Contraction Coupling and Regulation of Contraction in Skeletal Muscle: The Modern Synthesis. **2014**, 333-393

115 INTRACELLULAR CALCIUM MEASUREMENTS USING NMR SPECTROSCOPY OF FLUORINE-LABELLED CHELATORS. **1982**, 65-75

114 Second Messenger Role of Inositol Trisphosphate for Mobilization of Intracellular Calcium in Liver. **1985**, 423-433

113 Control of Chloride Secretion by Intracellular Calcium in the Rat Colon. **1985**, 14-19

112 Plant NAD Kinase: Regulation by Calcium and Calmodulin. **1986**, 91-98

111 NMR Methods for Measuring Cation Concentrations in Biological Systems. **1986**, 279-289

1

110 Calcium Channels Formation and Modulation in Secreting Basophils and Mast Cells. **1986**, 457-471

109 References. **1986**, 305-338

- 108 Prostaglandins and Calcium Metabolism in Cancer. **1987**, 77-85
- 107 Immunological Stimulation of Mast Cells Degranulation: Role of Cytosolic pH, Na<sup>+</sup> and Ca<sup>2+</sup> Ions. **1987**, 73-86
- 106 Fluorescence ratio imaging of dynamic intracellular ionic signals. **1988**, 46, 42-43
- 105 Protein Phosphorylation and the Inactivation of Dihydropyridine-Sensitive Calcium Channels in Mammalian Pituitary Tumor Cells. **1988**, 103-114
- 104 Digital Imaging of Ca<sup>2+</sup> Levels in CNS Neurons under Conditions That Induce Facilitating Increases in Ca<sup>2+</sup> Levels and Sustained Ca<sup>2+</sup> Elevation. **1988**, 459-479 1
- 103 Measurement of Free Calcium Concentration inside Single Cells with New Fluorescent Calcium Indicators. **1989**, 347-359
- 102 Receptor-Mediated Ca<sup>2+</sup> Signaling. **1989**, 125-141
- 101 Use of Intracellular Calcium and Membrane Potential Fluorescent Indicators in Neuroendocrine Cells. **1989**, 315-340
- 100 A Fluorometric Technique for the In Vivo Measurement of Intracellular Calcium. **1989**, 155-161
- 99 NUCLEAR ENVELOPE BREAKDOWN IS REGULATED BY CALCIUM AND CAM KINASE. **1990**, 75-87
- 98 Membrane electrophysiology of epileptiform activity in the hippocampus. **1990**, 50, 6-13
- 97 The control of photoreceptor sensitivity. **1990**, 1, 109-120 1
- 96 Angiotensin II stimulates protein-tyrosine phosphorylation in a calcium-dependent manner. **1990**, 10, 6290-6298 28
- 95 Role of Ca<sup>2+</sup> Overload in Myocardial Contractile Dysfunction. **1991**, 43-60
- 94 Measuring Cytoplasmic Calcium in Single Living Cells Using Fluorescent Probes. **1991**, 229-253 1
- 93 Katalyse und Regulation bioenergetischer Prozesse durch die Erdalkalimetallionen Mg<sup>2+</sup> und Ca<sup>2+</sup>. **1991**, 287-302
- 92 Membrane Receptor Clustering as a Cellular Stimulus □The Mast Cell Case. **1991**, 147-162
- 91 The Role of Cytoplasmic Calcium Concentration in Photoreceptor Light Adaptation. **1992**, 236-258



90	Regulatory Mechanism of Contraction in Skeletal Muscle. <b>1992</b> , 1-36	2
89	Signal Transduction during Exocytosis in Mast Cells. <b>1993</b> , 103-119	
88	MEASUREMENT AND MANIPULATION OF OSCILLATIONS IN CYTOPLASMIC CALCIUM. <b>1993</b> , 133-175	
87	B. <b>1993</b> , 91-202	
86	Cell Signaling in LPS Primed and PAF Stimulated P388D1 Macrophage-Like Cells. <b>1993</b> , 183-186	
85	Q. <b>1993</b> , 845-852	
84	Cell Function Studies Using Fluorescent Ca <sup>2+</sup> Indicators. <b>1994</b> , 287-314	
83	Dynamics of Ion Channels Modified by Mobilized Calcium in Vascular Smooth Muscle Cells. <b>1995</b> , 1-45	
82	Videomicrofluorometry and Intracellular Ionic Concentration in Single Living Cells. <b>1996</b> , 221-229	
81	Measurement of Free Intracellular Cations. <b>1997</b> , 41-64	
80	Approaches in Treating Nerve Cell Death with Calcium Chelators. <b>1999</b> , 609-631	
79	Imaging Calcium in the Cytoplasm and in Organelles with Fluorescent Dyes: General Principles. <b>1999</b> , 53-91	2
78	The Role of $\mu$ Opioid Receptors in Brain Ionic Homeostasis Under Physiological Condition. <b>2015</b> , 117-246	1
77	Dendrites: Recording from Fine Neuronal Structures Using Patch-Clamp and Imaging Techniques. <i>Neuromethods</i> , <b>2016</b> , 97-121	0.4
76	Advances in two photon scanning and scanless microscopy technologies for functional neural circuit imaging.	
75	Electrophysiological and Visual Tags. <i>Neuromethods</i> , <b>2016</b> , 235-245	0.4
74	Chapter 9 Current Landscape of diaCEST Imaging Agents. <b>2017</b> , 159-192	
73	Calcium oscillations in blood platelets and their possible role in 'interpreting' extracellular information by cells. <i>Uspekhi Fizicheskikh Nauk</i> , <b>2019</b> , 189, 703-719	0.5 1

72	TORC2 dependent phosphorylation modulates calcium regulation of fission yeast myosin.		
71	A Review on Chemosensors. <i>Health Information Systems and the Advancement of Medical Practice in Developing Countries</i> , <b>2019</b> , 133-146	0.2	
70	Hyperspectral imaging microscopy for measurement of localized second messenger signals in single cells. <i>Proceedings of SPIE</i> , <b>2019</b> , 10881,	1.7	
69	How to build a fast and highly sensitive sound detector that remains robust to temperature shifts.		
68	Muscarinic modulation of spike-timing dependent plasticity at recurrent layer 2/3 synapses in mouse auditory cortex.		
67	Development of optical methods for real-time whole-brain functional imaging of zebrafish neuronal activity.		
66	Gametes and Fertilization. <b>2020</b> , 93-107		
65	Design and Synthesis of Responsive Functional Molecules Based on Metal Complexes and Their Dynamic Structural Conversions. <i>Bulletin of Japan Society of Coordination Chemistry</i> , <b>2020</b> , 75, 13-27	0.3	0
64	A New Method for Monitoring Intracellular Free Ca <sup>2+</sup> in Lymphocytes. Concanavalin A and Anti-Igm Induce an Early Rise of Cytoplasmic Free Ca <sup>2+</sup> . <b>1983</b> , 453-458		
63	Investigation of effect of tectorigenin (O-methylated isoflavone) on Ca signal transduction and cytotoxic responses in canine renal tubular cells. <i>Chinese Journal of Physiology</i> , <b>2020</b> , 63, 60-67	1.6	0
62	Exploration of thioridazine-induced Ca signaling and non-Ca-triggered cell death in HepG2 human hepatocellular carcinoma cells. <i>Chinese Journal of Physiology</i> , <b>2020</b> , 63, 187-194	1.6	0
61	Sensing Intra- and Extra-Cellular Ca <sup>2+</sup> in the Islet of Langerhans. <i>Advanced Functional Materials</i> , 2106020	15.6	
60	Using SNAP-tag for facile construction of dye-based biosensors in living cells.		
59	Mobilization of intracellular calcium by alpha 1-adrenergic receptor activation in muscle cell monolayers.. <i>Journal of Biological Chemistry</i> , <b>1986</b> , 261, 5866-5871	5.4	10
58	Mechanism of a methylxanthine drug theophylline-induced Ca signaling and cytotoxicity in AML12 mouse hepatocytes. <i>Toxicology Research</i> , <b>2020</b> , 9, 790-797	2.6	
57	The cell fate controlling CLE40 peptide requires CNGC9 to trigger highly localized Ca <sup>2+</sup> transients in Arabidopsis thaliana root meristems.		
56	Mechanical stretch rapidly activates multiple signal transduction pathways in cardiac myocytes: potential involvement of an autocrine/paracrine mechanism. <i>EMBO Journal</i> , <b>1993</b> , 12, 1681-92	13	116
55	Regulatory pathways governing modulation of fungal gene expression by a virulence-attenuating mycovirus. <i>EMBO Journal</i> , <b>1992</b> , 11, 4539-48	13	22

54	Characterization of the high-affinity Ca <sup>2+</sup> binding sites in the L-type Ca <sup>2+</sup> channel pore in rat pheochromocytoma cells. <i>Journal of Physiology</i> , <b>1993</b> , 466, 657-82	3.9	63
53	Role of Ca <sup>2+</sup> in apoptosis evoked by human amylin in pancreatic islet beta-cells. <i>Biochemical Journal</i> , <b>1999</b> , 343 Pt 1, 53-61	3.8	11
52	Estimation of systolic and diastolic free intracellular Ca <sup>2+</sup> by titration of Ca <sup>2+</sup> buffering in the ferret heart. <i>Biochemical Journal</i> , <b>2000</b> , 346 Pt 2, 385-91	3.8	9
51	Activation of T lymphocytes by cross-linking of glycopospholipid-anchored Thy-1 mobilizes separate pools of intracellular second messengers to those induced by the antigen-receptor/CD3 complex. <i>Immunology</i> , <b>1991</b> , 72, 457-63	7.8	24
50	Actions of calcium channel blockers on vascular proteoglycan synthesis: relationship to atherosclerosis. <i>Vascular Health and Risk Management</i> , <b>2005</b> , 1, 199-208	4.4	13
49	Intracellular calcium patterns modulate neutrophil function. <i>Transactions of the American Clinical and Climatological Association</i> , <b>1987</b> , 98, 29-35	0.9	2
48	Optical and quantitative detection of Ca <sup>2+</sup> ion by an calix[4]arene-isophorone incorporated fluorometric and colorimetric probe. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2022</b> , 425, 113713	4.7	0
47	Fluorescent and Bioluminescent Probes based on Precise Molecular Design. <i>Bunseki Kagaku</i> , <b>2021</b> , 70, 601-616	0.2	
46	Acetylation stabilises calmodulin-regulated calcium signalling.. <i>FEBS Letters</i> , <b>2022</b> ,	3.8	
45	Fluorescent probes for the detection of disease-associated biomarkers. <i>Science Bulletin</i> , <b>2022</b> ,	10.6	9
44	The yin and yang of intracellular delivery of amphipathic optical probes using -butyl charge masking.. <i>Chemical Communications</i> , <b>2022</b> ,	5.8	
43	Herbal root extracts in Ben-Cha-Moon-Yai remedy attenuated pain-like behaviors and inflammation through the opioid and prostaglandin systems.. <i>Journal of Ethnopharmacology</i> , <b>2022</b> , 115088	5	1
42	Hydroxytyrosol [2-(3,4-dihydroxyphenyl)-ethanol], a natural phenolic compound found in the olive, alters Ca signaling and viability in human HepG2 hepatoma cells.. <i>Chinese Journal of Physiology</i> , <b>2022</b> , 65, 30-36	1.6	0
41	Melding Synthetic Molecules and Genetically Encoded Proteins to Forge New Tools for Neuroscience.. <i>Annual Review of Neuroscience</i> , <b>2022</b> ,	17	0
40	Toolbox for studying neurovascular coupling , with a focus on vascular activity and calcium dynamics in astrocytes.. <i>Neurophotonics</i> , <b>2022</b> , 9, 021909	3.9	1
39	Esterase-Activated Precipitating Strategy to Achieve Highly Specific Detection and Long-Term Imaging of Calcium Ions by Aggregation-Induced Phosphorescence Probe.. <i>Analytical Chemistry</i> , <b>2022</b> ,	7.8	0
38	Genetically encoded fluorescent sensors for imaging neuronal dynamics in vivo.. <i>Journal of Neurochemistry</i> , <b>2022</b> ,	6	0
37	Simultaneous triple-parametric optical mapping of transmembrane potential, intracellular calcium and NADH for cardiac physiology assessment.. <i>Communications Biology</i> , <b>2022</b> , 5, 319	6.7	0

36	Review on data analysis methods for mesoscale neural imaging .. <i>Neurophotonics</i> , <b>2022</b> , 9, 041407	3.9	1
35	The Impact of the Antipsychotic Medication Chlorpromazine on Cytotoxicity through Ca Signaling Pathway in Glial Cell Models.. <i>Neurotoxicity Research</i> , <b>2022</b> , 40, 791	4.3	0
34	Neurophysiological functions and pharmacological tools of acidic and non-acidic Ca stores.. <i>Cell Calcium</i> , <b>2022</b> , 104, 102582	4	0
33	Intracellular Messengers in Vertebrate Photoreceptors: Electmphysiological Techniques. 471-516		
32	The effects of triethyl lead on the development of hippocampal neurons in culture. <i>Cell Biology and Toxicology</i> , <b>1995</b> , 11, 1-10	7.4	2
31	Fluorogenic and genetic targeting of a red-emitting molecular calcium indicator.. <i>Chemical Communications</i> , <b>2022</b> ,	5.8	
30	Progress on optical measurements in single-molecule analysis with nanopores. <i>Chinese Science Bulletin</i> , <b>2022</b> ,	2.9	
29	Three 18-membered macrocyclic diamides with differing donor atoms and backbone substituents. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2022</b> , 102, 515-521	1.7	
28	Fluorescent Indicators For Biological Imaging of Monatomic Ions.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2022</b> , 10, 885440	5.7	0
27	Emerging trends in fluorescence bioimaging of divalent metal cations using small-molecule indicators. <i>Chemistry - A European Journal</i> ,	4.8	
26	Tools to measure membrane potential of neurons. <i>Biomedical Journal</i> , <b>2022</b> ,	7.1	1
25	Efferocytosis requires periphagosomal Ca <sup>2+</sup> -signaling and TRPM7-mediated electrical activity. <i>Nature Communications</i> , <b>2022</b> , 13,	17.4	0
24	Action of the natural compound gomisin a on Ca <sup>2+</sup> movement in human prostate cancer cells. <i>Chinese Journal of Physiology</i> , <b>2022</b> , 65, 151	1.6	1
23	Review of data processing of functional optical microscopy for neuroscience. <b>2022</b> , 9,		1
22	Recognition-based Sensors for Cellular Imaging. <b>2022</b> , 83-128		
21	Physico-Chemical Characterization of a Highly Rigid Gd(III) Complex Formed with a Phenanthroline Derivative Ligand.		
20	An AIE-active probe for monitoring calcium-rich biological environment with high signal-to-noise and long-term retention in situ. <b>2022</b> , 289, 121778		0
19	Electrophysiological and Visual Tags. <b>2022</b> , 239-250		0

18	Chemigenetic indicators based on synthetic chelators and green fluorescent protein.	1
17	Excitation-contraction coupling in mammalian skeletal muscle: Blending old and last-decade research. 13,	1
16	Two-photon calcium imaging of neuronal activity. <b>2022</b> , 2,	1
15	Development of a medium throughput whole-cell microtiter plate Thr286 autophosphorylation assay for CaMKII $\beta$ using ELISA. <b>2022</b> , 118, 107226	0
14	Substitution position effects of an electron-withdrawing group on the tautomer fluorescence of Coumarin $\beta$ rea derivatives with an acetate anion. <b>2022</b> , 208, 110811	0
13	Calcium Signaling in Plant-Insect Interactions. <b>2022</b> , 11, 2689	2
12	Electrostatic regulation of the cis- and trans-membrane interactions of synaptotagmin-1.	0
11	Pathophysiology and Pathogenic Mechanisms of Pulmonary Hypertension: Role of Membrane Receptors, Ion Channels and Ca <sup>2+</sup> Signaling.	1
10	Mapping light distribution in the brain via MRI.	0
9	Metal-dependent base pairing of bifacial iminodiacetic acid-modified uracil bases for switching DNA hybridization partner.	1
8	Hydrolysis-Resistant Ester-Based Linkers for Development of Activity-Based NIR Bioluminescence Probes. <b>2023</b> , 145, 1460-1469	0
7	Electrostatic regulation of the cis- and trans-membrane interactions of synaptotagmin-1. <b>2022</b> , 12,	0
6	Metalloallostery and Transition Metal Signaling: Bioinorganic Copper Chemistry Beyond Active Sites.	1
5	Metalloallostery and Transition Metal Signaling: Bioinorganic Copper Chemistry Beyond Active Sites. <b>2023</b> , 135,	0
4	HaloTag-based reporters for fluorescence imaging and biosensing.	0
3	Optical and Analytical Methods to Visualize and Manipulate Cortical Ensembles and Behavior. <b>2023</b> , 331-361	0
2	Deciliation. <b>2023</b> , 373-389	0
1	Action of econazole on Ca <sup>2+</sup> levels and cytotoxicity in OC2 human oral cancer cells. <b>2023</b> ,	0

