

Christopher J Frederickson

List of Publications by Year in descending order

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51
papers

8,519
citations

117453

34
h-index

243296

44
g-index

51
all docs

51
docs citations

51
times ranked

5936
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the Zinc Concentration in Human Fingernails Using Laser-Induced Breakdown Spectroscopy. <i>Applied Spectroscopy</i> , 2017, 71, 567-582.	1.2	14
2	Peptide-Based, Two-Fluorophore, Ratiometric Probe for Quantifying Mobile Zinc in Biological Solutions. <i>ACS Chemical Biology</i> , 2015, 10, 385-389.	1.6	24
3	Fluorophilia: Fluorophore-containing compounds adhere non-specifically to injured neurons. <i>Brain Research</i> , 2012, 1432, 28-35.	1.1	10
4	Sensitive and selective detection of zinc ions in neuronal vesicles using PYDPY1, a simple turn-on dipyrin. <i>Chemical Communications</i> , 2011, 47, 7107.	2.2	60
5	Free zinc ions outside a narrow concentration range are toxic to a variety of cells <i>in vitro</i> . <i>Experimental Biology and Medicine</i> , 2010, 235, 741-750.	1.1	178
6	Evidence That the ZNT3 Protein Controls the Total Amount of Elemental Zinc in Synaptic Vesicles. <i>Journal of Histochemistry and Cytochemistry</i> , 2008, 56, 3-6.	1.3	108
7	High concentration of zinc in sub-retinal pigment epithelial deposits. <i>Experimental Eye Research</i> , 2007, 84, 772-780.	1.2	117
8	Neurotoxic Zinc Translocation into Hippocampal Neurons is Inhibited by Hypothermia and is Aggravated by Hyperthermia after Traumatic Brain Injury in Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 161-169.	2.4	49
9	Synaptic release of zinc from brain slices: Factors governing release, imaging, and accurate calculation of concentration. <i>Journal of Neuroscience Methods</i> , 2006, 154, 19-29.	1.3	109
10	Zinc-secreting Paneth Cells Studied by ZP Fluorescence. <i>Journal of Histochemistry and Cytochemistry</i> , 2006, 54, 311-316.	1.3	48
11	The Gluzineric Synapse: Who's Talking and Who's Listening?. , 2005, , 123-137.		5
12	In situ measurement of free zinc in an ischemia model and cell culture using a ratiometric fluorescence-based biosensor. , 2005, , .		4
13	Amyloid- β Metal Interaction and Metal Chelation. , 2005, 38, 235-254.		62
14	The neurobiology of zinc in health and disease. <i>Nature Reviews Neuroscience</i> , 2005, 6, 449-462.	4.9	1,633
15	Is zinc the link between compromises of brain perfusion (excitotoxicity) and Alzheimer's disease?. <i>Journal of Alzheimer's Disease</i> , 2005, 8, 155-160.	1.2	24
16	Method for identifying neuronal cells suffering zinc toxicity by use of a novel fluorescent sensor. <i>Journal of Neuroscience Methods</i> , 2004, 139, 79-89.	1.3	52
17	Membrane-Permeable and -Impermeable Sensors of the Zinpyr Family and Their Application to Imaging of Hippocampal Zinc In Vivo. <i>Chemistry and Biology</i> , 2004, 11, 1659-1666.	6.2	110
18	Zinc and Excitotoxic Brain Injury: A New Model. <i>Neuroscientist</i> , 2004, 10, 18-25.	2.6	114

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19	Protective effects of zinc chelation in traumatic brain injury correlate with upregulation of neuroprotective genes in rat brain. <i>Neuroscience Letters</i> , 2004, 355, 221-225.	1.0	55
20	Clioquinol effects on tissue chelatable zinc in mice. <i>Journal of Molecular Medicine</i> , 2003, 81, 637-644.	1.7	48
21	ZP4, an Improved Neuronal Zn ²⁺ Sensor of the Zinpyr Family. <i>Journal of the American Chemical Society</i> , 2003, 125, 1778-1787.	6.6	359
22	Depletion of Intracellular Zinc from Neurons by Use of an Extracellular Chelator In Vivo and In Vitro. <i>Journal of Histochemistry and Cytochemistry</i> , 2002, 50, 1659-1662.	1.3	68
23	Rapid Translocation of Zn ²⁺ From Presynaptic Terminals Into Postsynaptic Hippocampal Neurons After Physiological Stimulation. <i>Journal of Neurophysiology</i> , 2001, 86, 2597-2604.	0.9	246
24	Induction of Mossy Fiber CA3 Long-Term Potentiation Requires Translocation of Synaptically Released Zn ²⁺ . <i>Journal of Neuroscience</i> , 2001, 21, 8015-8025.	1.7	253
25	Loss of vesicular zinc and appearance of perikaryal zinc after seizures induced by pilocarpine. <i>NeuroReport</i> , 2001, 12, 1523-1525.	0.6	52
26	Synaptically released zinc: physiological functions and pathological effects. <i>BioMetals</i> , 2001, 14, 353-366.	1.8	332
27	Synaptically released zinc: Physiological functions and pathological effects. , 2001, , 167-180.		2
28	History of Zinc as Related to Brain Function. <i>Journal of Nutrition</i> , 2000, 130, 496S-502S.	1.3	180
29	Fluorescence microscopy of stimulated Zn(II) release from organotypic cultures of mammalian hippocampus using a carbonic anhydrase-based biosensor system. <i>Journal of Neuroscience Methods</i> , 2000, 96, 35-45.	1.3	85
30	Release of synaptic zinc is substantially depressed by conventional brain slice preparations. <i>Brain Research</i> , 2000, 879, 7-12.	1.1	35
31	Evidence that synaptically-released zinc contributes to neuronal injury after traumatic brain injury. <i>Brain Research</i> , 2000, 852, 268-273.	1.1	284
32	Histochemically-reactive zinc in amyloid plaques, angiopathy, and degenerating neurons of Alzheimer's diseased brains. <i>Brain Research</i> , 2000, 852, 274-278.	1.1	345
33	Importance of Zinc in the Central Nervous System: The Zinc-Containing Neuron. <i>Journal of Nutrition</i> , 2000, 130, 1471S-1483S.	1.3	720
34	Zinc-containing afferent projections to the rat corticomедial amygdaloid complex: A retrograde tracing study. , 1998, 400, 375-390.		49
35	Increased amount of zinc in the hippocampus and amygdala of Alzheimer's diseased brains. <i>Journal of Neuroscience Methods</i> , 1997, 76, 53-59.	1.3	160
36	Zinc-containing innervation of the subicular region in the rat. <i>Neurochemistry International</i> , 1995, 27, 95-103.	1.9	21

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37	A zinc-containing fiber system of thalamic origin. <i>NeuroReport</i> , 1994, 5, 2026-2028.	0.6	15
38	Zinc-containing neuronal innervation of the septal nuclei. <i>Brain Research</i> , 1993, 608, 115-122.	1.1	36
39	Zinc containing projections to the bed nucleus of the stria terminalis. <i>Brain Research</i> , 1991, 562, 181-189.	1.1	34
40	Applications of piezoelectric fluid jetting devices to neuroscience research. <i>Journal of Neuroscience Methods</i> , 1991, 38, 81-88.	1.3	10
41	Effects of Subcutaneous Injections of Zinc Chloride on Seizures Induced by Noise and by Kainic Acid. <i>Epilepsia</i> , 1990, 31, 139-144.	2.6	28
42	A retrograde transport method for mapping zinc-containing fiber systems in the brain. <i>Brain Research</i> , 1990, 515, 277-286.	1.1	54
43	In situ binding of bouton zinc reversibly disrupts performance on a spatial memory task. <i>Behavioural Brain Research</i> , 1990, 38, 25-33.	1.2	82
44	Darkfield illumination improves microscopic detection of metals in Timm's stained tissue. <i>The Histochemical Journal</i> , 1989, 21, 477-480.	0.6	8
45	Amygdaloid efferents through the stria terminalis in the rat give origin to zinc-containing boutons. <i>Journal of Comparative Neurology</i> , 1989, 290, 201-212.	0.9	49
46	Neurobiology of Zinc and Zinc-Containing Neurons. <i>International Review of Neurobiology</i> , 1989, 31, 145-238.	0.9	971
47	Seizure-Induced Alterations of Opioid Peptide and Zinc Metabolism in the Hippocampus of Rats. , 1988, , 271-287.		2
48	Hippocampal Zinc, The Storage Granule Pool: Localization, Physiochemistry, and Possible Functions. , 1988, , 289-306.		32
49	Stimulation-induced uptake and release of zinc in hippocampal slices. <i>Nature</i> , 1984, 308, 736-738.	13.7	785
50	Cytoarchitectonic distribution of zinc in the hippocampus of man and the rat. <i>Brain Research</i> , 1983, 273, 335-339.	1.1	337
51	Zinc dithionite staining in the cat hippocampus: Relationship to the mossy-fiber neuropil and postnatal development. <i>Experimental Neurology</i> , 1981, 73, 812-823.	2.0	61