

Christopher J Frederickson

List of Publications by Year in descending order

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Version: 2024-02-01

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 | The neurobiology of zinc in health and disease. <i>Nature Reviews Neuroscience</i> , 2005, 6, 449-462. | 4.9 | 1,633 |
| 2 | Neurobiology of Zinc and Zinc-Containing Neurons. <i>International Review of Neurobiology</i> , 1989, 31, 145-238. | 0.9 | 971 |
| 3 | Stimulation-induced uptake and release of zinc in hippocampal slices. <i>Nature</i> , 1984, 308, 736-738. | 13.7 | 785 |
| 4 | Importance of Zinc in the Central Nervous System: The Zinc-Containing Neuron. <i>Journal of Nutrition</i> , 2000, 130, 1471S-1483S. | 1.3 | 720 |
| 5 | 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 |
| 6 | 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 |
| 7 | Cytoarchitectonic distribution of zinc in the hippocampus of man and the rat. <i>Brain Research</i> , 1983, 273, 335-339. | 1.1 | 337 |
| 8 | Synaptically released zinc: physiological functions and pathological effects. <i>BioMetals</i> , 2001, 14, 353-366. | 1.8 | 332 |
| 9 | Evidence that synaptically-released zinc contributes to neuronal injury after traumatic brain injury. <i>Brain Research</i> , 2000, 852, 268-273. | 1.1 | 284 |
| 10 | 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 |
| 11 | 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 |
| 12 | History of Zinc as Related to Brain Function. <i>Journal of Nutrition</i> , 2000, 130, 496S-502S. | 1.3 | 180 |
| 13 | 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 |
| 14 | 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 |
| 15 | High concentration of zinc in sub-retinal pigment epithelial deposits. <i>Experimental Eye Research</i> , 2007, 84, 772-780. | 1.2 | 117 |
| 16 | Zinc and Excitotoxic Brain Injury: A New Model. <i>Neuroscientist</i> , 2004, 10, 18-25. | 2.6 | 114 |
| 17 | Membrane-Permeable and -Impermeable Sensors of the Zinpyr Family and Their Application to Imaging of Hippocampal Zinc <i>In Vivo</i> . <i>Chemistry and Biology</i> , 2004, 11, 1659-1666. | 6.2 | 110 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 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 | Amyloid- β Metal Interaction and Metal Chelation. , 2005, 38, 235-254. | | 62 |
| 24 | Zinc dithizonate 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | A retrograde transport method for mapping zinc-containing fiber systems in the brain. <i>Brain Research</i> , 1990, 515, 277-286. | 1.1 | 54 |
| 28 | Loss of vesicular zinc and appearance of perikaryal zinc after seizures induced by pilocarpine. <i>NeuroReport</i> , 2001, 12, 1523-1525. | 0.6 | 52 |
| 29 | 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 |
| 30 | 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 |
| 31 | Zinc-containing afferent projections to the rat corticomedial amygdaloid complex: A retrograde tracing study. , 1998, 400, 375-390. | | 49 |
| 32 | 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 |
| 33 | Clioquinol effects on tissue chelatable zinc in mice. <i>Journal of Molecular Medicine</i> , 2003, 81, 637-644. | 1.7 | 48 |
| 34 | Zinc-secreting Paneth Cells Studied by ZP Fluorescence. <i>Journal of Histochemistry and Cytochemistry</i> , 2006, 54, 311-316. | 1.3 | 48 |
| 35 | Zinc-containing neuronal innervation of the septal nuclei. <i>Brain Research</i> , 1993, 608, 115-122. | 1.1 | 36 |
| 36 | Release of synaptic zinc is substantially depressed by conventional brain slice preparations. <i>Brain Research</i> , 2000, 879, 7-12. | 1.1 | 35 |

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|----|--|-----|-----------|
| 37 | Zinc containing projections to the bed nucleus of the stria terminalis. <i>Brain Research</i> , 1991, 562, 181-189. | 1.1 | 34 |
| 38 | Hippocampal Zinc, The Storage Granule Pool: Localization, Physiochemistry, and Possible Functions. , 1988, , 289-306. | | 32 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Zinc-containing innervation of the subicular region in the rat. <i>Neurochemistry International</i> , 1995, 27, 95-103. | 1.9 | 21 |
| 43 | A zinc-containing fiber system of thalamic origin. <i>NeuroReport</i> , 1994, 5, 2026-2028. | 0.6 | 15 |
| 44 | Determination of the Zinc Concentration in Human Fingernails Using Laser-Induced Breakdown Spectroscopy. <i>Applied Spectroscopy</i> , 2017, 71, 567-582. | 1.2 | 14 |
| 45 | Applications of piezoelectric fluid jetting devices to neuroscience research. <i>Journal of Neuroscience Methods</i> , 1991, 38, 81-88. | 1.3 | 10 |
| 46 | Fluorophilia: Fluorophore-containing compounds adhere non-specifically to injured neurons. <i>Brain Research</i> , 2012, 1432, 28-35. | 1.1 | 10 |
| 47 | Darkfield illumination improves microscopic detection of metals in Timm's stained tissue. <i>The Histochemical Journal</i> , 1989, 21, 477-480. | 0.6 | 8 |
| 48 | The Gluzineric Synapse: Who's Talking and Who's Listening?. , 2005, , 123-137. | | 5 |
| 49 | In situ measurement of free zinc in an ischemia model and cell culture using a ratiometric fluorescence-based biosensor. , 2005, , . | | 4 |
| 50 | Synaptically released zinc: Physiological functions and pathological effects. , 2001, , 167-180. | | 2 |
| 51 | Seizure-Induced Alterations of Opioid Peptide and Zinc Metabolism in the Hippocampus of Rats. , 1988, , 271-287. | | 2 |