

Irene Volitakis

List of Publications by Year in descending order

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74
papers

9,632
citations

66343

42
h-index

76900

74
g-index

85
all docs

85
docs citations

85
times ranked

8682
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment with a Copper-Zinc Chelator Markedly and Rapidly Inhibits β -Amyloid Accumulation in Alzheimer's Disease Transgenic Mice. <i>Neuron</i> , 2001, 30, 665-676.	8.1	1,419
2	Metal-Protein Attenuation With Iodochlorhydroxyquin (Clioquinol) Targeting β Amyloid Deposition and Toxicity in Alzheimer Disease. <i>Archives of Neurology</i> , 2003, 60, 1685.	4.5	951
3	Rapid Restoration of Cognition in Alzheimer's Transgenic Mice with 8-Hydroxy Quinoline Analogs Is Associated with Decreased Interstitial β . <i>Neuron</i> , 2008, 59, 43-55.	8.1	629
4	Alzheimer's Disease Amyloid- β Binds Copper and Zinc to Generate an Allosterically Ordered Membrane-penetrating Structure Containing Superoxide Dismutase-like Subunits. <i>Journal of Biological Chemistry</i> , 2001, 276, 20466-20473.	3.4	595
5	Tau deficiency induces parkinsonism with dementia by impairing APP-mediated iron export. <i>Nature Medicine</i> , 2012, 18, 291-295.	30.7	491
6	Overexpression of Alzheimer's Disease Amyloid- β Opposes the Age-dependent Elevations of Brain Copper and Iron. <i>Journal of Biological Chemistry</i> , 2002, 277, 44670-44676.	3.4	324
7	Mitochondrial Oxidative Stress Causes Hyperphosphorylation of Tau. <i>PLoS ONE</i> , 2007, 2, e536.	2.5	291
8	Degradation of the Alzheimer Disease Amyloid β -Peptide by Metal-dependent Up-regulation of Metalloprotease Activity. <i>Journal of Biological Chemistry</i> , 2006, 281, 17670-17680.	3.4	267
9	Hypoxia-inducible Factor Prolyl 4-Hydroxylase Inhibition. <i>Journal of Biological Chemistry</i> , 2005, 280, 41732-41743.	3.4	265
10	Copper and Zinc Binding Modulates the Aggregation and Neurotoxic Properties of the Prion Peptide PrP ¹⁰⁶⁻¹²⁶ . <i>Biochemistry</i> , 2001, 40, 8073-8084.	2.5	264
11	Increasing Cu bioavailability inhibits β oligomers and tau phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 381-386.	7.1	259
12	Insights into Zn ²⁺ homeostasis in neurons from experimental and modeling studies. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C726-C742.	4.6	184
13	Platinum-based inhibitors of amyloid- β as therapeutic agents for Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6813-6818.	7.1	182
14	Selective Intracellular Release of Copper and Zinc Ions from Bis(thiosemicarbazonato) Complexes Reduces Levels of Alzheimer Disease Amyloid- β Peptide. <i>Journal of Biological Chemistry</i> , 2008, 283, 4568-4577.	3.4	177
15	Neurotoxic, Redox-competent Alzheimer's β -Amyloid Is Released from Lipid Membrane by Methionine Oxidation. <i>Journal of Biological Chemistry</i> , 2003, 278, 42959-42965.	3.4	176
16	The Alzheimer's therapeutic PBT2 promotes amyloid- β degradation and GSK3 phosphorylation via a metal chaperone activity. <i>Journal of Neurochemistry</i> , 2011, 119, 220-230.	3.9	167
17	Mechanisms of Copper Ion Mediated Huntington's Disease Progression. <i>PLoS ONE</i> , 2007, 2, e334.	2.5	159
18	Elevated labile Cu is associated with oxidative pathology in Alzheimer disease. <i>Free Radical Biology and Medicine</i> , 2012, 52, 298-302.	2.9	144

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19	Neuronal Zinc Exchange with the Blood Vessel Wall Promotes Cerebral Amyloid Angiopathy in an Animal Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2004, 24, 3453-3459.	3.6	135
20	Zinc and copper modulate Alzheimer A β levels in human cerebrospinal fluid. <i>Neurobiology of Aging</i> , 2009, 30, 1069-1077.	3.1	126
21	Iron Accumulates in Huntington's Disease Neurons: Protection by Deferoxamine. <i>PLoS ONE</i> , 2013, 8, e77023.	2.5	119
22	Quantitative elemental bio-imaging of Mn, Fe, Cu and Zn in 6-hydroxydopamine induced Parkinsonism mouse models. <i>Metallomics</i> , 2009, 1, 53-58.	2.4	118
23	Motor and cognitive deficits in aged tau knockout mice in two background strains. <i>Molecular Neurodegeneration</i> , 2014, 9, 29.	10.8	117
24	An iron-dopamine index predicts risk of parkinsonian neurodegeneration in the substantia nigra pars compacta. <i>Chemical Science</i> , 2014, 5, 2160-2169.	7.4	98
25	Gender and genetic background effects on brain metal levels in APP transgenic and normal mice: Implications for Alzheimer β -amyloid pathology. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 952-962.	3.5	93
26	Cu ^{II} (atsm) inhibits ferroptosis: Implications for treatment of neurodegenerative disease. <i>British Journal of Pharmacology</i> , 2020, 177, 656-667.	5.4	92
27	Mechanisms Controlling the Cellular Accumulation of Copper Bis(thiosemicarbazonato) Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 9594-9605.	4.0	76
28	Intracellular copper deficiency increases amyloid- β secretion by diverse mechanisms. <i>Biochemical Journal</i> , 2008, 412, 141-152.	3.7	75
29	Decreased Plasma Iron in Alzheimer's Disease Is Due to Transferrin Desaturation. <i>ACS Chemical Neuroscience</i> , 2015, 6, 398-402.	3.5	75
30	Radioiodinated clioquinol as a biomarker for beta-amyloid: Zn ²⁺ complexes in Alzheimer's disease. <i>Aging Cell</i> , 2006, 5, 69-79.	6.7	74
31	Clioquinol rescues Parkinsonism and dementia phenotypes of the tau knockout mouse. <i>Neurobiology of Disease</i> , 2015, 81, 168-175.	4.4	73
32	Presenilins Promote the Cellular Uptake of Copper and Zinc and Maintain Copper Chaperone of SOD1-dependent Copper/Zinc Superoxide Dismutase Activity. <i>Journal of Biological Chemistry</i> , 2011, 286, 9776-9786.	3.4	69
33	Copper as a target for prostate cancer therapeutics: copper-ionophore pharmacology and altering systemic copper distribution. <i>Oncotarget</i> , 2016, 7, 37064-37080.	1.8	69
34	Iron accumulation confers neurotoxicity to a vulnerable population of nigral neurons: implications for Parkinson's disease. <i>Molecular Neurodegeneration</i> , 2014, 9, 27.	10.8	60
35	Differential modulation of Alzheimer's disease amyloid β -peptide accumulation by diverse classes of metal ligands. <i>Biochemical Journal</i> , 2007, 407, 435-450.	3.7	58
36	Paradoxical Condensation of Copper with Elevated β -Amyloid in Lipid Rafts under Cellular Copper Deficiency Conditions. <i>Journal of Biological Chemistry</i> , 2009, 284, 21899-21907.	3.4	55

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37	Cysteine Oxidation within N-terminal Mutant Huntingtin Promotes Oligomerization and Delays Clearance of Soluble Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 18320-18330.	3.4	54
38	Genetically Decreased Spinal Cord Copper Concentration Prolongs Life in a Transgenic Mouse Model of Amyotrophic Lateral Sclerosis. <i>Journal of Neuroscience</i> , 2004, 24, 7945-7950.	3.6	50
39	Enduring Elevations of Hippocampal Amyloid Precursor Protein and Iron Are Features of β^2 -Amyloid Toxicity and Are Mediated by Tau. <i>Neurotherapeutics</i> , 2015, 12, 862-873.	4.4	50
40	The <i>APOE</i> ϵ^4 Allele Is Associated with Lower Selenium Levels in the Brain: Implications for Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1459-1464.	3.5	48
41	Longitudinal Analysis of Serum Copper and Ceruloplasmin in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 34, 171-182.	2.6	46
42	The effect of paraformaldehyde fixation and sucrose cryoprotection on metal concentration in murine neurological tissue. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 565-570.	3.0	45
43	Novel Fluorinated 8-Hydroxyquinoline Based Metal Ionophores for Exploring the Metal Hypothesis of Alzheimer's Disease. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 1025-1029.	2.8	41
44	Intracellular amyloid formation in muscle cells of $A\beta$ -transgenic <i>Caenorhabditis elegans</i> : determinants and physiological role in copper detoxification. <i>Molecular Neurodegeneration</i> , 2009, 4, 2.	10.8	39
45	Altered selenium status in Huntington's disease: Neuroprotection by selenite in the N171-82Q mouse model. <i>Neurobiology of Disease</i> , 2014, 71, 34-42.	4.4	39
46	Rubidium and potassium levels are altered in Alzheimer's disease brain and blood but not in cerebrospinal fluid. <i>Acta Neuropathologica Communications</i> , 2016, 4, 119.	5.2	39
47	Neuroprotective Copper Bis(thiosemicarbazonato) Complexes Promote Neurite Elongation. <i>PLoS ONE</i> , 2014, 9, e90070.	2.5	39
48	Overexpression of $A\beta$ is associated with acceleration of onset of motor impairment and superoxide dismutase 1 aggregation in an amyotrophic lateral sclerosis mouse model. <i>Aging Cell</i> , 2006, 5, 153-165.	6.7	37
49	Sustained Activation of Glial Cell Epidermal Growth Factor Receptor by Bis(thiosemicarbazonato) Metal Complexes Is Associated with Inhibition of Protein Tyrosine Phosphatase Activity. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 6606-6620.	6.4	37
50	Manganese chelation therapy extends survival in a mouse model of M1000 prion disease. <i>Journal of Neurochemistry</i> , 2010, 114, 440-451.	3.9	37
51	Increased metal content in the TDP-43A315T transgenic mouse model of frontotemporal lobar degeneration and amyotrophic lateral sclerosis. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 15.	3.4	37
52	Deregulation of subcellular biometal homeostasis through loss of the metal transporter, Zip7, in a childhood neurodegenerative disorder. <i>Acta Neuropathologica Communications</i> , 2014, 2, 25.	5.2	37
53	Plasma Amyloid β^2 and Amyloid β^4 Levels Are Associated With Early Cognitive Dysfunction After Cardiac Surgery. <i>Annals of Thoracic Surgery</i> , 2009, 88, 1426-1432.	1.3	35
54	Effects of Neonatal Iron Feeding and Chronic Clioquinol Administration on the Parkinsonian Human A53T Transgenic Mouse. <i>ACS Chemical Neuroscience</i> , 2016, 7, 360-366.	3.5	32

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55	Neonatal iron supplementation potentiates oxidative stress, energetic dysfunction and neurodegeneration in the R6/2 mouse model of Huntington's disease. <i>Redox Biology</i> , 2015, 4, 363-374.	9.0	31
56	Regulation of Insulin-Regulated Membrane Aminopeptidase Activity by Its C-Terminal Domain. <i>Biochemistry</i> , 2011, 50, 2611-2622.	2.5	30
57	Lead and manganese levels in serum and erythrocytes in Alzheimer's disease and mild cognitive impairment: results from the Australian Imaging, Biomarkers and Lifestyle Flagship Study of Ageing. <i>Metallomics</i> , 2016, 8, 628-632.	2.4	30
58	Increased Zinc and Manganese in Parallel with Neurodegeneration, Synaptic Protein Changes and Activation of Akt/GSK3 Signaling in Ovine CLN6 Neuronal Ceroid Lipofuscinosis. <i>PLoS ONE</i> , 2013, 8, e58644.	2.5	28
59	Altered biometal homeostasis is associated with CLN6 mRNA loss in mouse neuronal ceroid lipofuscinosis. <i>Biology Open</i> , 2013, 2, 635-646.	1.2	27
60	Deregulation of biometal homeostasis: the missing link for neuronal ceroid lipofuscinoses?. <i>Metallomics</i> , 2014, 6, 932-943.	2.4	27
61	Lipophilic adamantyl- or deferasirox-based conjugates of desferrioxamine B have enhanced neuroprotective capacity: implications for Parkinson disease. <i>Free Radical Biology and Medicine</i> , 2013, 60, 147-156.	2.9	26
62	Altered transition metal homeostasis in Niemann-Pick disease, type C1. <i>Metallomics</i> , 2014, 6, 542-553.	2.4	26
63	Apolipoprotein E ablation decreases synaptic vesicular zinc in the brain. <i>BioMetals</i> , 2010, 23, 1085-1095.	4.1	21
64	Effect of Structural Modifications to Glyoxal-bis(thiosemicarbazonato)copper(II) Complexes on Cellular Copper Uptake, Copper-Mediated ATP7A Trafficking, and P-Glycoprotein Mediated Efflux. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 711-723.	6.4	21
65	Deferiprone Treatment in Aged Transgenic Tau Mice Improves Y-Maze Performance and Alters Tau Pathology. <i>Neurotherapeutics</i> , 2021, 18, 1081-1094.	4.4	17
66	Chronic Exposure to High Levels of Zinc or Copper has Little Effect on Brain Metal Homeostasis or A β ² Accumulation in Transgenic APP-C100 Mice. <i>Cellular and Molecular Neurobiology</i> , 2009, 29, 757-767.	3.3	16
67	Ionophore and Biometal Modulation of P-glycoprotein Expression and Function in Human Brain Microvascular Endothelial Cells. <i>Pharmaceutical Research</i> , 2018, 35, 83.	3.5	16
68	Direct determination of zinc in plasma by graphite furnace atomic absorption spectrometry using palladium/magnesium and EDTA matrix modification with high temperature pyrolysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 843-847.	3.0	12
69	Copper modulates the large dense core vesicle secretory pathway in PC12 cells. <i>Metallomics</i> , 2013, 5, 700.	2.4	10
70	Investigating copper-regulated protein expression in Menkes fibroblasts using antibody microarrays. <i>Proteomics</i> , 2008, 8, 1819-1831.	2.2	8
71	Copper Ionophores as Novel Antiobesity Therapeutics. <i>Molecules</i> , 2020, 25, 4957.	3.8	8
72	The Effects of Clioquinol on P-glycoprotein Expression and Biometal Distribution in the Mouse Brain Microvasculature. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2247-2255.	3.3	5

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73	Zn-DTSM, A Zinc Ionophore with Therapeutic Potential for Acrodermatitis Enteropathica?. <i>Nutrients</i> , 2019, 11, 206.	4.1	1
74	Characterising the brain metalloproteome in Down syndrome patients with concomitant Alzheimer's pathology. <i>Metallomics</i> , 2020, 12, 114-132.	2.4	0