

# Irene Volitakis

## List of Publications by Year in descending order

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74  
papers

9,632  
citations

66315  
42  
h-index

76872  
74  
g-index

85  
all docs

85  
docs citations

85  
times ranked

8682  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deferiprone Treatment in Aged Transgenic Tau Mice Improves Y-Maze Performance and Alters Tau Pathology. <i>Neurotherapeutics</i> , 2021, 18, 1081-1094.	2.1	17
2	Cu <sup>II</sup> (atsm) inhibits ferroptosis: Implications for treatment of neurodegenerative disease. <i>British Journal of Pharmacology</i> , 2020, 177, 656-667.	2.7	92
3	Characterising the brain metalloproteome in Down syndrome patients with concomitant Alzheimer's pathology. <i>Metallomics</i> , 2020, 12, 114-132.	1.0	0
4	Copper Ionophores as Novel Antiobesity Therapeutics. <i>Molecules</i> , 2020, 25, 4957.	1.7	8
5	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.	1.6	5
6	Zn-DTSM, A Zinc Ionophore with Therapeutic Potential for Acrodermatitis Enteropathica?. <i>Nutrients</i> , 2019, 11, 206.	1.7	1
7	Ionophore and Biometal Modulation of P-glycoprotein Expression and Function in Human Brain Microvascular Endothelial Cells. <i>Pharmaceutical Research</i> , 2018, 35, 83.	1.7	16
8	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.	2.9	21
9	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.	1.6	12
10	The $\epsilon$ 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.	1.7	48
11	Copper as a target for prostate cancer therapeutics: copper-ionophore pharmacology and altering systemic copper distribution. <i>Oncotarget</i> , 2016, 7, 37064-37080.	0.8	69
12	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.	2.4	39
13	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.	1.0	30
14	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.	1.7	32
15	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.	3.9	31
16	Decreased Plasma Iron in Alzheimer's Disease Is Due to Transferrin Desaturation. <i>ACS Chemical Neuroscience</i> , 2015, 6, 398-402.	1.7	75
17	Clioquinol rescues Parkinsonism and dementia phenotypes of the tau knockout mouse. <i>Neurobiology of Disease</i> , 2015, 81, 168-175.	2.1	73
18	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.	1.3	41

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19	Enduring Elevations of Hippocampal Amyloid Precursor Protein and Iron Are Features of $\beta^2$ -Amyloid Toxicity and Are Mediated by Tau. <i>Neurotherapeutics</i> , 2015, 12, 862-873.	2.1	50
20	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.	1.7	37
21	Deregulation of biometal homeostasis: the missing link for neuronal ceroid lipofuscinoses?. <i>Metallomics</i> , 2014, 6, 932-943.	1.0	27
22	Altered transition metal homeostasis in Niemann-Pick disease, type C1. <i>Metallomics</i> , 2014, 6, 542-553.	1.0	26
23	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.	1.6	45
24	An iron-dopamine index predicts risk of parkinsonian neurodegeneration in the substantia nigra pars compacta. <i>Chemical Science</i> , 2014, 5, 2160-2169.	3.7	98
25	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.	2.1	39
26	Iron accumulation confers neurotoxicity to a vulnerable population of nigral neurons: implications for Parkinson's disease. <i>Molecular Neurodegeneration</i> , 2014, 9, 27.	4.4	60
27	Motor and cognitive deficits in aged tau knockout mice in two background strains. <i>Molecular Neurodegeneration</i> , 2014, 9, 29.	4.4	117
28	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.	2.4	37
29	Neuroprotective Copper Bis(thiosemicarbazonato) Complexes Promote Neurite Elongation. <i>PLoS ONE</i> , 2014, 9, e90070.	1.1	39
30	Copper modulates the large dense core vesicle secretory pathway in PC12 cells. <i>Metallomics</i> , 2013, 5, 700.	1.0	10
31	Longitudinal Analysis of Serum Copper and Ceruloplasmin in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 34, 171-182.	1.2	46
32	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.	1.3	26
33	Altered biometal homeostasis is associated with CLN6 mRNA loss in mouse neuronal ceroid lipofuscinosis. <i>Biology Open</i> , 2013, 2, 635-646.	0.6	27
34	Iron Accumulates in Huntington's Disease Neurons: Protection by Deferoxamine. <i>PLoS ONE</i> , 2013, 8, e77023.	1.1	119
35	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.	1.1	28
36	Tau deficiency induces parkinsonism with dementia by impairing APP-mediated iron export. <i>Nature Medicine</i> , 2012, 18, 291-295.	15.2	491

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37	Elevated labile Cu is associated with oxidative pathology in Alzheimer disease. <i>Free Radical Biology and Medicine</i> , 2012, 52, 298-302.	1.3	144
38	Mechanisms Controlling the Cellular Accumulation of Copper Bis(thiosemicarbazonato) Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 9594-9605.	1.9	76
39	Regulation of Insulin-Regulated Membrane Aminopeptidase Activity by Its C-Terminal Domain. <i>Biochemistry</i> , 2011, 50, 2611-2622.	1.2	30
40	The Alzheimer's therapeutic PBT2 promotes amyloid- $\beta$ degradation and GSK3 phosphorylation via a metal chaperone activity. <i>Journal of Neurochemistry</i> , 2011, 119, 220-230.	2.1	167
41	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.	1.6	69
42	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.	1.6	54
43	Apolipoprotein E ablation decreases synaptic vesicular zinc in the brain. <i>BioMetals</i> , 2010, 23, 1085-1095.	1.8	21
44	Manganese chelation therapy extends survival in a mouse model of M1000 prion disease. <i>Journal of Neurochemistry</i> , 2010, 114, 440-451.	2.1	37
45	Paradoxical Condensation of Copper with Elevated $\beta$ -Amyloid in Lipid Rafts under Cellular Copper Deficiency Conditions. <i>Journal of Biological Chemistry</i> , 2009, 284, 21899-21907.	1.6	55
46	Increasing Cu bioavailability inhibits $A\beta$ oligomers and tau phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 381-386.	3.3	259
47	Chronic Exposure to High Levels of Zinc or Copper has Little Effect on Brain Metal Homeostasis or $A\beta$ Accumulation in Transgenic APP-C100 Mice. <i>Cellular and Molecular Neurobiology</i> , 2009, 29, 757-767.	1.7	16
48	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.	4.4	39
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.	2.9	37
50	Zinc and copper modulate Alzheimer $A\beta$ levels in human cerebrospinal fluid. <i>Neurobiology of Aging</i> , 2009, 30, 1069-1077.	1.5	126
51	Quantitative elemental bio-imaging of Mn, Fe, Cu and Zn in 6-hydroxydopamine induced Parkinsonism mouse models. <i>Metallomics</i> , 2009, 1, 53-58.	1.0	118
52	Plasma Amyloid $\beta$ 242 and Amyloid $\beta$ 240 Levels Are Associated With Early Cognitive Dysfunction After Cardiac Surgery. <i>Annals of Thoracic Surgery</i> , 2009, 88, 1426-1432.	0.7	35
53	Investigating copper-regulated protein expression in Menkes fibroblasts using antibody microarrays. <i>Proteomics</i> , 2008, 8, 1819-1831.	1.3	8
54	Rapid Restoration of Cognition in Alzheimer's Transgenic Mice with 8-Hydroxy Quinoline Analogs Is Associated with Decreased Interstitial $A\beta$ . <i>Neuron</i> , 2008, 59, 43-55.	3.8	629

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55	Selective Intracellular Release of Copper and Zinc Ions from Bis(thiosemicarbazonato) Complexes Reduces Levels of Alzheimer Disease Amyloid- $\beta$ Peptide. <i>Journal of Biological Chemistry</i> , 2008, 283, 4568-4577.	1.6	177
56	Intracellular copper deficiency increases amyloid- $\beta$ secretion by diverse mechanisms. <i>Biochemical Journal</i> , 2008, 412, 141-152.	1.7	75
57	Platinum-based inhibitors of amyloid- $\beta$ 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.	3.3	182
58	Insights into Zn <sup>2+</sup> homeostasis in neurons from experimental and modeling studies. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C726-C742.	2.1	184
59	Differential modulation of Alzheimer's disease amyloid $\beta$ -peptide accumulation by diverse classes of metal ligands. <i>Biochemical Journal</i> , 2007, 407, 435-450.	1.7	58
60	Mitochondrial Oxidative Stress Causes Hyperphosphorylation of Tau. <i>PLoS ONE</i> , 2007, 2, e536.	1.1	291
61	Mechanisms of Copper Ion Mediated Huntington's Disease Progression. <i>PLoS ONE</i> , 2007, 2, e334.	1.1	159
62	Radioiodinated clioquinol as a biomarker for beta-amyloid: Zn <sup>2+</sup> complexes in Alzheimer's disease. <i>Aging Cell</i> , 2006, 5, 69-79.	3.0	74
63	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.	3.0	37
64	Gender and genetic background effects on brain metal levels in APP transgenic and normal mice: Implications for Alzheimer $\beta$ -amyloid pathology. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 952-962.	1.5	93
65	Degradation of the Alzheimer Disease Amyloid $\beta$ -Peptide by Metal-dependent Up-regulation of Metalloprotease Activity. <i>Journal of Biological Chemistry</i> , 2006, 281, 17670-17680.	1.6	267
66	Hypoxia-inducible Factor Prolyl 4-Hydroxylase Inhibition. <i>Journal of Biological Chemistry</i> , 2005, 280, 41732-41743.	1.6	265
67	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.	1.7	135
68	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.	1.7	50
69	Metal-Protein Attenuation With Iodochlorhydroxyquin (Clioquinol) Targeting A $\beta$ Amyloid Deposition and Toxicity in Alzheimer Disease. <i>Archives of Neurology</i> , 2003, 60, 1685.	4.9	951
70	Neurotoxic, Redox-competent Alzheimer's $\beta$ -Amyloid Is Released from Lipid Membrane by Methionine Oxidation. <i>Journal of Biological Chemistry</i> , 2003, 278, 42959-42965.	1.6	176
71	Overexpression of Alzheimer's Disease Amyloid- $\beta$ Opposes the Age-dependent Elevations of Brain Copper and Iron. <i>Journal of Biological Chemistry</i> , 2002, 277, 44670-44676.	1.6	324
72	Copper and Zinc Binding Modulates the Aggregation and Neurotoxic Properties of the Prion Peptide PrP <sup>106-126</sup> . <i>Biochemistry</i> , 2001, 40, 8073-8084.	1.2	264

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73	Treatment with a Copper-Zinc Chelator Markedly and Rapidly Inhibits $\beta^2$ -Amyloid Accumulation in Alzheimer's Disease Transgenic Mice. <i>Neuron</i> , 2001, 30, 665-676.	3.8	1,419
74	Alzheimer's Disease Amyloid- $\beta^2$ 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.	1.6	595