Helen Nichol

List of Publications by Year
in descending order

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34	1,490	331670 21	501196 28
papers	citations	h-index	g-index

35	35	35	2103
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Iron Metabolism in Insects. Annual Review of Entomology, 2002, 47, 535-559.	11.8	253
2	Yeast Frataxin Sequentially Chaperones and Stores Iron by Coupling Protein Assembly with Iron Oxidation. Journal of Biological Chemistry, 2003, 278, 31340-31351.	3.4	145
3	Measuring iron in the brain using quantitative susceptibility mapping and X-ray fluorescence imaging. NeuroImage, 2013, 78, 68-74.	4.2	144
4	Mapping metals in Parkinson's and normal brain using rapid-scanning x-ray fluorescence. Physics in Medicine and Biology, 2009, 54, 651-663.	3.0	112
5	Iron, Copper, and Zinc Distribution of the Cerebellum. Cerebellum, 2009, 8, 74-79.	2.5	73
6	Structure of Frataxin Iron Cores:Â An X-ray Absorption Spectroscopic Studyâ€. Biochemistry, 2003, 42, 5971-5976.	2.5	68
7	Brain iron detected by SWI high pass filtered phase calibrated with synchrotron Xâ€ray fluorescence. Journal of Magnetic Resonance Imaging, 2010, 31, 1346-1354.	3.4	62
8	X-ray Absorption Spectroscopy at the Sulfur K-Edge: A New Tool to Investigate the Biochemical Mechanisms of Neurodegeneration. ACS Chemical Neuroscience, 2012, 3, 178-185.	3.5	61
9	Mapping Brain Metals to Evaluate Therapies for Neurodegenerative Disease. CNS Neuroscience and Therapeutics, 2011, 17, 256-268.	3.9	59
10	Secreted ferritin subunits are of two kinds in insects. Insect Biochemistry and Molecular Biology, 1999, 29, 999-1013.	2.7	56
11	Ferric iron chelation lowers brain iron levels after intracerebral hemorrhage in rats but does not improve outcome. Experimental Neurology, 2012, 234, 136-143.	4.1	52
12	In Situ Biospectroscopic Investigation of Rapid Ischemic and Postmortem Induced Biochemical Alterations in the Rat Brain. ACS Chemical Neuroscience, 2015, 6, 226-238.	3.5	41
13	A novel multi-modal platform to image molecular and elemental alterations in ischemic stroke. Neurobiology of Disease, 2016, 91, 132-142.	4.4	40
14	Prolonged Therapeutic Hypothermia does not Adversely Impact Neuroplasticity after Global Ischemia in Rats. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1525-1534.	4.3	39
15	The chemical form of mitochondrial iron in Friedreichâ€™s ataxia. Journal of Inorganic Biochemistry, 2007, 101, 957-966.	3.5	36
16	Subcellular Biochemical Investigation of Purkinje Neurons Using Synchrotron Radiation Fourier Transform Infrared Spectroscopic Imaging with a Focal Plane Array Detector. ACS Chemical Neuroscience, 2013, 4, 1071-1080.	3.5	35
17	Rehabilitation Augments Hematoma Clearance and Attenuates Oxidative Injury and Ion Dyshomeostasis After Brain Hemorrhage. Stroke, 2017, 48, 195-203.	2.0	34
18	A New Method To Image Heme-Fe, Total Fe, and Aggregated Protein Levels after Intracerebral Hemorrhage. ACS Chemical Neuroscience, 2015, 6, 761-770.	3.5	33

#	Article	IF	Citations
19	Synchrotron X-ray Fluorescence Reveals Abnormal Metal Distributions in Brain and Spinal Cord in Spinocerebellar Ataxia: A Case Report. Cerebellum, 2009, 8, 340-351.	2.5	30
20	Novel bio-spectroscopic imaging reveals disturbed protein homeostasis and thiol redox with protein aggregation prior to hippocampal CA1 pyramidal neuron death induced by global brain ischemia in the rat. Free Radical Biology and Medicine, 2015, 89, 806-818.	2.9	24
21	A comparison of rapid-scanning X-ray fluorescence mapping and magnetic resonance imaging to localize brain iron distribution. European Journal of Radiology, 2008, 68, S109-S113.	2.6	23
22	Imaging of stroke: a comparison between X-ray fluorescence and magnetic resonance imaging methods. Magnetic Resonance Imaging, 2012, 30, 1416-1423.	1.8	15
23	Protein-Energy Malnutrition Exacerbates Stroke-Induced Forelimb Abnormalities and Dampens Neuroinflammation. Translational Stroke Research, 2018, 9, 622-630.	4.2	12
24	Structured RNA upstream of insect cap distal iron responsive elements enhances iron regulatory protein-mediated control of translation. Insect Biochemistry and Molecular Biology, 2002, 32, 1699-1710.	2.7	11
25	Asymmetric distribution of metals in the Xenopus laevis oocyte: a synchrotron X-ray fluorescence microprobe study. Biochemistry and Cell Biology, 2007, 85, 537-542.	2.0	11
26	Examining potential side effects of therapeutic hypothermia in experimental intracerebral hemorrhage. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2975-2986.	4.3	8
27	Quantification of human plasma metalloproteins in multiple sclerosis, ischemic stroke and healthy controls reveals an association of haptoglobin-hemoglobin complexes with age. PLoS ONE, 2022, 17, e0262160.	2.5	7
28	Visualizing Iron Deposition in Multiple Sclerosis Cadaver Brains. , 2010, , .		4
29	Neural Stem Cell Mapping with High-Resolution Rapid-Scanning X-Ray Fluorescence Imaging. , 2013, , 127-136.		1
30	Synchrotron light source imaging of brain tissue shows changes in iron concentration after chronic implantation of electrodes and electrical stimulation. FASEB Journal, 2009, 23, LB37.	0.5	1
31	Freeze-drying Thick Soft Tissue Sections for X-ray Microprobe Improves Results. Synchrotron Radiation News, 2009, 22, 33-37.	0.8	0
32	Bent Laue X-ray Fluorescence Imaging of Manganese in Biological Tissuesâ€"Preliminary Results. , 2010, , .		0
33	Stable Expression of the Sodium Iodide Symporter (NIS) in Metastatic Cancer Cells: A Novel Imaging Tool. FASEB Journal, 2013, 27, 1145.3.	0.5	0
34	Design of a mouse restraint for synchrotron-based computed tomography imaging. Journal of Synchrotron Radiation, 2015, 22, 1297-1300.	2.4	0