

Helen Nichol

List of Publications by Year in descending order

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34
papers

1,490
citations

331670

21
h-index

501196

28
g-index

35
all docs

35
docs citations

35
times ranked

2103
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Protein-Energy Malnutrition Exacerbates Stroke-Induced Forelimb Abnormalities and Dampens Neuroinflammation. Translational Stroke Research, 2018, 9, 622-630.	4.2	12
3	Rehabilitation Augments Hematoma Clearance and Attenuates Oxidative Injury and Ion Dyshomeostasis After Brain Hemorrhage. Stroke, 2017, 48, 195-203.	2.0	34
4	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
5	A novel multi-modal platform to image molecular and elemental alterations in ischemic stroke. Neurobiology of Disease, 2016, 91, 132-142.	4.4	40
6	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
7	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
8	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
9	Design of a mouse restraint for synchrotron-based computed tomography imaging. Journal of Synchrotron Radiation, 2015, 22, 1297-1300.	2.4	0
10	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
11	Measuring iron in the brain using quantitative susceptibility mapping and X-ray fluorescence imaging. NeuroImage, 2013, 78, 68-74.	4.2	144
12	Neural Stem Cell Mapping with High-Resolution Rapid-Scanning X-Ray Fluorescence Imaging. , 2013, , 127-136.		1
13	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
14	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
15	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
16	Imaging of stroke: a comparison between X-ray fluorescence and magnetic resonance imaging methods. Magnetic Resonance Imaging, 2012, 30, 1416-1423.	1.8	15
17	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
18	Mapping Brain Metals to Evaluate Therapies for Neurodegenerative Disease. CNS Neuroscience and Therapeutics, 2011, 17, 256-268.	3.9	59

#	ARTICLE	IF	CITATIONS
19	Bent Laue X-ray Fluorescence Imaging of Manganese in Biological Tissuesâ€”Preliminary Results. , 2010, , .		0
20	Brain iron detected by SWI high pass filtered phase calibrated with synchrotron X-ray fluorescence. Journal of Magnetic Resonance Imaging, 2010, 31, 1346-1354.	3.4	62
21	Visualizing Iron Deposition in Multiple Sclerosis Cadaver Brains. , 2010, , .		4
22	Freeze-drying Thick Soft Tissue Sections for X-ray Microprobe Improves Results. Synchrotron Radiation News, 2009, 22, 33-37.	0.8	0
23	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
24	Iron, Copper, and Zinc Distribution of the Cerebellum. Cerebellum, 2009, 8, 74-79.	2.5	73
25	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
26	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
27	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
28	Asymmetric distribution of metals in the <i>Xenopus laevis</i> oocyte: a synchrotron X-ray fluorescence microprobe study. Biochemistry and Cell Biology, 2007, 85, 537-542.	2.0	11
29	The chemical form of mitochondrial iron in Friedreich's ataxia. Journal of Inorganic Biochemistry, 2007, 101, 957-966.	3.5	36
30	Structure of Frataxin Iron Cores: An X-ray Absorption Spectroscopic Study. Biochemistry, 2003, 42, 5971-5976.	2.5	68
31	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
32	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
33	Iron Metabolism in Insects. Annual Review of Entomology, 2002, 47, 535-559.	11.8	253
34	Secreted ferritin subunits are of two kinds in insects. Insect Biochemistry and Molecular Biology, 1999, 29, 999-1013.	2.7	56