

Bruce R Ransom

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

3,478
citations

27
h-index

49
g-index

49
ext. papers

3,775
ext. citations

6.1
avg, IF

5.09
L-index

#	Paper	IF	Citations
47	White Matter Pathophysiology 2022 , 103-116.e4		
46	Energy Metabolism in Mouse Sciatic Nerve A Fibres during Increased Energy Demand. <i>Metabolites</i> , 2022 , 12, 505	5.6	1
45	Oligodendrocyte lineage cells and depression. <i>Molecular Psychiatry</i> , 2021 , 26, 103-117	15.1	25
44	Studying Human Glial Cells: Where Are We Today?. <i>Glia</i> , 2020 , 68, 683-684	9	
43	A method for reducing animal use whilst maintaining statistical power in electrophysiological recordings from rodent nerves. <i>Heliyon</i> , 2020 , 6, e04143	3.6	1
42	Hypothermic neuroprotection during reperfusion following exposure to aglycemia in central white matter is mediated by acidification. <i>Physiological Reports</i> , 2019 , 7, e14007	2.6	
41	Metabolism of Glycogen in Brain White Matter. <i>Advances in Neurobiology</i> , 2019 , 23, 187-207	2.1	2
40	Connexin Hemichannels in Astrocytes: An Assessment of Controversies Regarding Their Functional Characteristics. <i>Neurochemical Research</i> , 2017 , 42, 2537-2550	4.6	25
39	Emerging Roles for Glycogen in the CNS. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 73	6.1	27
38	White Matter Pathophysiology 2016 , 113-128		
37	The role of AQP4 in neuromyelitis optica: More answers, more questions. <i>Journal of Neuroimmunology</i> , 2016 , 298, 63-70	3.5	25
36	Dual pathways mediate amyloid stimulated glutathione release from astrocytes. <i>Glia</i> , 2015 , 63, 2208-199		34
35	Ischemic Preconditioning in White Matter: Magnitude and Mechanism. <i>Journal of Neuroscience</i> , 2015 , 35, 15599-611	6.6	28
34	Novel hypoglycemic injury mechanism: N-methyl-D-aspartate receptor-mediated white matter damage. <i>Annals of Neurology</i> , 2014 , 75, 492-507	9.4	23
33	Activation, permeability, and inhibition of astrocytic and neuronal large pore (hemi)channels. <i>Journal of Biological Chemistry</i> , 2014 , 289, 26058-26073	5.4	38
32	Protecting white matter from stroke injury. <i>Stroke</i> , 2013 , 44, 1204-11	6.7	70
31	Astrocytes: multitasking stars of the central nervous system. <i>Methods in Molecular Biology</i> , 2012 , 814, 3-7	1.4	92

30	Schwann cell glycogen selectively supports myelinated axon function. <i>Annals of Neurology</i> , 2012 , 72, 406-18	9.4	74
29	Molecular Pathophysiology of White Matter Anoxic-Ischemic Injury 2011 , 122-137		6
28	Anaerobic function of CNS white matter declines with age. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 996-1002	7.3	24
27	White matter vulnerability to ischemic injury increases with age because of enhanced excitotoxicity. <i>Journal of Neuroscience</i> , 2008 , 28, 1479-89	6.6	102
26	Excitotoxic mechanisms of ischemic injury in myelinated white matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007 , 27, 1540-52	7.3	103
25	Anoxia effects on CNS function and survival: regional differences. <i>Neurochemical Research</i> , 2004 , 29, 2163-9	4.6	17
24	The Concept of Neuroglia: A Historical Perspective 2004 , 1-16		6
23	Functional hemichannels in astrocytes: a novel mechanism of glutamate release. <i>Journal of Neuroscience</i> , 2003 , 23, 3588-96	6.6	584
22	Glycogen regulation and functional role in mouse white matter. <i>Journal of Physiology</i> , 2003 , 549, 501-12	3.9	193
21	(1R,3S)-1-Aminocyclopentane-1,3-dicarboxylic acid (RS-ACPD) reduces intracellular glutamate levels in astrocytes. <i>Journal of Neurochemistry</i> , 2001 , 79, 756-66	6	12
20	Metabolic substrates other than glucose support axon function in central white matter. <i>Journal of Neuroscience Research</i> , 2001 , 66, 839-43	4.4	69
19	Ionic mechanisms of aglycemic axon injury in mammalian central white matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001 , 21, 385-95	7.3	35
18	Thrombin-induced activation of cultured rodent microglia. <i>Journal of Neurochemistry</i> , 2000 , 75, 1539-47	6	143
17	Activity-dependent extracellular K ⁺ accumulation in rat optic nerve: the role of glial and axonal Na ⁺ pumps. <i>Journal of Physiology</i> , 2000 , 522 Pt 3, 427-42	3.9	156
16	Astrocytic glycogen influences axon function and survival during glucose deprivation in central white matter. <i>Journal of Neuroscience</i> , 2000 , 20, 6804-10	6.6	300
15	Axon conduction and survival in CNS white matter during energy deprivation: a developmental study. <i>Journal of Neurophysiology</i> , 1998 , 79, 95-105	3.2	68
14	Pharmacological characterization of Na ⁺ influx via voltage-gated Na ⁺ channels in spinal cord astrocytes. <i>Journal of Neurophysiology</i> , 1997 , 78, 3249-58	3.2	20
13	Gap junctions equalize intracellular Na ⁺ concentration in astrocytes. <i>Glia</i> , 1997 , 20, 299-307	9	107

12	Effects of CO ₂ on excitatory transmission apparently caused by changes in intracellular pH in the rat hippocampal slice. <i>Brain Research</i> , 1996 , 706, 210-6	3-7	84
11	Autoprotective mechanisms in the CNS: some new lessons from white matter. <i>Molecular and Chemical Neuropathology</i> , 1996 , 27, 107-29		18
10	Effects of osmotically driven cell volume changes on diffusion-weighted imaging of the rat optic nerve. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 162-7	4-4	95
9	Type II sodium channels in spinal cord astrocytes in situ: immunocytochemical observations. <i>Glia</i> , 1994 , 12, 219-27	9	25
8	Anoxic injury of rat optic nerve: ultrastructural evidence for coupling between Na ⁺ influx and Ca ²⁺ -mediated injury in myelinated CNS axons. <i>Brain Research</i> , 1994 , 644, 197-204	3-7	82
7	A depolarization-stimulated, bafilomycin-inhibitable H ⁺ pump in hippocampal astrocytes. <i>Glia</i> , 1993 , 9, 280-91	9	57
6	Morphology of astrocytes and oligodendrocytes during development in the intact rat optic nerve. <i>Journal of Comparative Neurology</i> , 1993 , 338, 141-58	3-4	118
5	Ultrastructural identification of HRP-injected oligodendrocytes in the intact rat optic nerve. <i>Glia</i> , 1991 , 4, 37-45	9	53
4	Na ⁺ -Ca ²⁺ exchanger mediates Ca ²⁺ influx during anoxia in mammalian central nervous system white matter. <i>Annals of Neurology</i> , 1991 , 30, 375-80	9-4	186
3	Compound action potential of nerve recorded by suction electrode: a theoretical and experimental analysis. <i>Brain Research</i> , 1991 , 546, 18-32	3-7	163
2	Anoxic injury of mammalian central white matter: decreased susceptibility in myelin-deficient optic nerve. <i>Annals of Neurology</i> , 1990 , 28, 335-40	9-4	36
1	Visualization of oligodendrocytes and astrocytes in the intact rat optic nerve by intracellular injection of lucifer yellow and horseradish peroxidase. <i>Glia</i> , 1989 , 2, 470-5	9	139