Bruce D Trapp

List of Publications by Year
in descending order

127 papers	25,320 citations	15880 67 h-index	23173 116 g-index
135 all docs	135 docs citations	135 times ranked	19733 citing authors

#	Article	IF	Citations
1	Sensitivity of T1/T2-weighted ratio in detection of cortical demyelination is similar to magnetization transfer ratio using post-mortem MRI. Multiple Sclerosis Journal, 2022, 28, 198-205.	1.4	18
2	Juxtacortical susceptibility changes in progressive multifocal leukoencephalopathy at the grayâ€“white matter junction correlates with iron-enriched macrophages. Multiple Sclerosis Journal, 2021, 27, 135245852199965.	1.4	5
3	Neuronal hibernation following hippocampal demyelination. Acta Neuropathologica Communications, 2021, 9, 34.	2.4	9
4	Hippocampal Neurogenesis and Neural Circuit Formation in a Cuprizone-Induced Multiple Sclerosis Mouse Model. Journal of Neuroscience, 2020, 40, 447-458.	1.7	24
5	Microglial Displacement of GABAergic Synapses Is a Protective Event during Complex Febrile Seizures. Cell Reports, 2020, 33, 108346.	2.9	32
6	Mechanisms underlying progression in multiple sclerosis. Current Opinion in Neurology, 2020, 33, 277-285.	1.8	88
7	Aggressive multiple sclerosis (1): Towards a definition of the phenotype. Multiple Sclerosis Journal, 2020, 26, 1031-1044.	1.4	39
8	Enhanced axonal response of mitochondria to demyelination offers neuroprotection: implications for multiple sclerosis. Acta Neuropathologica, 2020, 140, 143-167.	3.9	48
9	Intrinsic and Extrinsic Mechanisms of Thalamic Pathology in Multiple Sclerosis. Annals of Neurology, 2020, 88, 81-92.	2.8	33
10	Comprehensive Autopsy Program for Individuals with Multiple Sclerosis. Journal of Visualized Experiments, 2019, , .	0.2	12
11	pHERV-W envelope protein fuels microglial cell-dependent damage of myelinated axons in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15216-15225.	3.3	78
12	Reversible Loss of Hippocampal Function in a Mouse Model of Demyelination/Remyelination. Frontiers in Cellular Neuroscience, 2019, 13, 588.	1.8	13
13	Alterations in CA1 hippocampal synapses in a mouse model of fragile X syndrome. Glia, 2018, 66, 789-800.	2.5	70
14	Identifying a new subtype of multiple sclerosis. Neurodegenerative Disease Management, 2018, 8, 367-369.	1.2	3
15	Much, if not all, of the cortical damage in MS can be attributed to the microglial cell â€“ No. Multiple Sclerosis Journal, 2018, 24, 897-899.	1.4	0
16	Lateral cerebellar nucleus stimulation promotes motor recovery and suppresses neuroinflammation in a fluid percussion injury rodent model. Brain Stimulation, 2018, 11, 1356-1367.	0.7	23
17	Cortical neuronal densities and cerebral white matter demyelination in multiple sclerosis: a retrospective study. Lancet Neurology, The, 2018, 17, 870-884.	4.9	103
18	Discovery of 1,2,3-Triazole Derivatives for Multimodality PET/CT/Cryoimaging of Myelination in the Central Nervous System. Journal of Medicinal Chemistry, 2017, 60, 987-999.	2.9	16

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19	T1â€/T2â€weighted ratio differs in demyelinated cortex in multiple sclerosis. Annals of Neurology, 2017, 82, 635-639.	2.8	82
20	DNA methylation in demyelinated multiple sclerosis hippocampus. Scientific Reports, 2017, 7, 8696.	1.6	54
21	Integrin-Kindlin3 requirements for microglial motility in vivo are distinct from those for macrophages. JCI Insight, 2017, 2, .	2.3	24
22	A mouse model for testing remyelinating therapies. Experimental Neurology, 2016, 283, 330-340.	2.0	62
23	Is Axonal Degeneration a Key Early Event in Parkinsonâ€™s Disease?. Journal of Parkinson's Disease, 2016, 6, 703-707.	1.5	36
24	Proteolipid proteinâ€“deficient myelin promotes axonal mitochondrial dysfunction via altered metabolic coupling. Journal of Cell Biology, 2016, 215, 531-542.	2.3	47
25	Relapses in multiple sclerosis: Relationship to disability. Multiple Sclerosis and Related Disorders, 2016, 6, 10-20.	0.9	36
26	Cuprizone does not induce <scp>CNS</scp> demyelination in nonhuman primates. Annals of Clinical and Translational Neurology, 2015, 2, 208-213.	1.7	10
27	Astrocyte response to IFN-Î³ limits IL-6-mediated microglia activation and progressive autoimmune encephalomyelitis. Journal of Neuroinflammation, 2015, 12, 79.	3.1	66
28	Pathological mechanisms in progressive multiple sclerosis. Lancet Neurology, The, 2015, 14, 183-193.	4.9	925
29	Mitochondrial fission augments capsaicin-induced axonal degeneration. Acta Neuropathologica, 2015, 129, 81-96.	3.9	25
30	Activation of Necroptosis in Multiple Sclerosis. Cell Reports, 2015, 10, 1836-1849.	2.9	413
31	Proteolipid protein cannot replace P₀protein as the major structural protein of peripheral nervous system myelin. Glia, 2015, 63, 66-77.	2.5	5
32	Microglial displacement of inhibitory synapses provides neuroprotection in the adult brain. Nature Communications, 2014, 5, 4486.	5.8	233
33	Relapsing and progressive forms of multiple sclerosis. Current Opinion in Neurology, 2014, 27, 271-278.	1.8	180
34	Mitochondrial immobilization mediated by syntaphilin facilitates survival of demyelinated axons. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9953-9958.	3.3	98
35	Discrepancy in CCL2 and CCR2 expression in white versus grey matter hippocampal lesions of Multiple Sclerosis patients. Acta Neuropathologica Communications, 2014, 2, 98.	2.4	32
36	Hippocampal volume is related to cognitive decline and fornicial diffusion measures in multiple sclerosis. Magnetic Resonance Imaging, 2014, 32, 354-358.	1.0	54

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37	Axonal loss in multiple sclerosis. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2014, 122, 101-113.	1.0	71
38	High spatial and angular resolution diffusion-weighted imaging reveals forniceal damage related to memory impairment. Magnetic Resonance Imaging, 2013, 31, 695-699.	1.0	15
39	Hippocampal demyelination and memory dysfunction are associated with increased levels of the neuronal microRNA miRâ€•124 and reduced AMPA receptors. Annals of Neurology, 2013, 73, 637-645.	2.8	164
40	Clinically feasible MTR is sensitive to cortical demyelination in MS. Neurology, 2013, 80, 246-252.	1.5	79
41	Diseases Involving Myelin. , 2012, , 691-704.		1
42	Lipopolysaccharide-Induced Microglial Activation and Neuroprotection against Experimental Brain Injury Is Independent of Hematogenous TLR4. Journal of Neuroscience, 2012, 32, 11706-11715.	1.7	354
43	Cortical remyelination: A new target for repair therapies in multiple sclerosis. Annals of Neurology, 2012, 72, 918-926.	2.8	191
44	Lessons from Jack Griffin and the â€œpathogenesis of peripheral nerve diseaseâ€• Journal of the Peripheral Nervous System, 2012, 17, 20-23.	1.4	0
45	Clonally expanded mitochondrial DNA deletions within the choroid plexus in multiple sclerosis. Acta Neuropathologica, 2012, 124, 209-220.	3.9	38
46	Gene expression profiling in multiple sclerosis brain. Neurobiology of Disease, 2012, 45, 108-114.	2.1	25
47	Mechanisms of neuronal dysfunction and degeneration in multiple sclerosis. Progress in Neurobiology, 2011, 93, 1-12.	2.8	369
48	The pathology of multiple sclerosis. , 2011, , 12-19.		2
49	Demyelination causes synaptic alterations in hippocampi from multiple sclerosis patients. Annals of Neurology, 2011, 69, 445-454.	2.8	269
50	Increased mitochondrial content in remyelinated axons: implications for multiple sclerosis. Brain, 2011, 134, 1901-1913.	3.7	131
51	Myelination and Axonal Electrical Activity Modulate the Distribution and Motility of Mitochondria at CNS Nodes of Ranvier. Journal of Neuroscience, 2011, 31, 7249-7258.	1.7	158
52	Demyelination Increases Axonal Stationary Mitochondrial Size and the Speed of Axonal Mitochondrial Transport. Journal of Neuroscience, 2010, 30, 6658-6666.	1.7	151
53	Is Multiple Sclerosis a Neurodegenerative Disorder?. Blue Books of Neurology, 2010, 35, 371-387.	0.1	0
54	Â4 Tubulin Identifies a Primitive Cell Source for Oligodendrocytes in the Mammalian Brain. Journal of Neuroscience, 2009, 29, 7649-7657.	1.7	24

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55	Human myelin proteome and comparative analysis with mouse myelin. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14605-14610.	3.3	105
56	Imaging Correlates of Leukocyte Accumulation and CXCR4/CXCL12 in Multiple Sclerosis. Archives of Neurology, 2009, 66, 44-53.	4.9	63
57	Gray-Matter Injury in Multiple Sclerosis. New England Journal of Medicine, 2009, 361, 1505-1506.	13.9	59
58	NG2-positive glia in the human central nervous system. Neuron Glia Biology, 2009, 5, 35-44.	2.0	39
59	Virtual hypoxia and chronic necrosis of demyelinated axons in multiple sclerosis. Lancet Neurology, The, 2009, 8, 280-291.	4.9	524
60	Glutamate receptors on myelinated spinal cord axons: I. GluR6 kainate receptors. Annals of Neurology, 2009, 65, 151-159.	2.8	100
61	Glutamate receptors on myelinated spinal cord axons: II. AMPA and GluR5 receptors. Annals of Neurology, 2009, 65, 160-166.	2.8	97
62	Imaging correlates of decreased axonal Na⁺/K⁺ ATPase in chronic multiple sclerosis lesions. Annals of Neurology, 2008, 63, 428-435.	2.8	106
63	Axon-Glial Signaling and the Glial Support of Axon Function. Annual Review of Neuroscience, 2008, 31, 535-561.	5.0	580
64	Multiple Sclerosis: An Immune or Neurodegenerative Disorder?. Annual Review of Neuroscience, 2008, 31, 247-269.	5.0	1,448
65	Rescue of Congenital Hypomyelination by Progenitor Cell Transplantation. Cell Stem Cell, 2008, 2, 519-520.	5.2	4
66	P₀Protein Is Required for and Can Induce Formation of Schmidt-Lantermann Incisures in Myelin Internodes. Journal of Neuroscience, 2008, 28, 7068-7073.	1.7	24
67	Neurogenesis in the chronic lesions of multiple sclerosis. Brain, 2008, 131, 2366-2375.	3.7	74
68	Activation of the ciliary neurotrophic factor (CNTF) signalling pathway in cortical neurons of multiple sclerosis patients. Brain, 2007, 130, 2566-2576.	3.7	83
69	Neurogenesis in the chronic lesions of multiple sclerosis. Journal of Neuropathology and Experimental Neurology, 2007, 66, 431.	0.9	1
70	Sodium Channel Expression Within Chronic Multiple Sclerosis Plaques. Journal of Neuropathology and Experimental Neurology, 2007, 66, 828-837.	0.9	73
71	Pathogenesis of axonal and neuronal damage in multiple sclerosis. Neurology, 2007, 68, S22-S31.	1.5	343
72	Imaging correlates of axonal swelling in chronic multiple sclerosis brains. Annals of Neurology, 2007, 62, 219-228.	2.8	107

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73	Evidence for synaptic stripping by cortical microglia. Glia, 2007, 55, 360-368.	2.5	293
74	NG2-positive cells generate A2B5-positive oligodendrocyte precursor cells. Glia, 2007, 55, 1001-1010.	2.5	86
75	Neurodegeneration and neuroprotection in multiple sclerosis and other neurodegenerative diseases. Journal of Neuroimmunology, 2006, 176, 198-215.	1.1	80
76	Mitochondrial dysfunction as a cause of axonal degeneration in multiple sclerosis patients. Annals of Neurology, 2006, 59, 478-489.	2.8	748
77	Evolution of a neuroprotective function of central nervous system myelin. Journal of Cell Biology, 2006, 172, 469-478.	2.3	127
78	N-Acetyl-L-Aspartate in Multiple Sclerosis. , 2006, 576, 199-214.		5
79	Hyaluronan accumulates in demyelinated lesions and inhibits oligodendrocyte progenitor maturation. Nature Medicine, 2005, 11, 966-972.	15.2	529
80	LINGO-1 negatively regulates myelination by oligodendrocytes. Nature Neuroscience, 2005, 8, 745-751.	7.1	553
81	?IV tubulin is selectively expressed by oligodendrocytes in the central nervous system. Glia, 2005, 50, 212-222.	2.5	30
82	Axonal Degeneration in Multiple Sclerosis: The Histopathological Evidence. , 2005, , 165-184.		12
83	Taking Two TRAILS. Neuron, 2005, 46, 355-356.	3.8	8
84	Neuropathobiology of multiple sclerosis. Neurologic Clinics, 2005, 23, 107-129.	0.8	81
85	Dysmyelinated Lower Motor Neurons Retract and Regenerate Dysfunctional Synaptic Terminals. Journal of Neuroscience, 2004, 24, 3890-3898.	1.7	35
86	Pathogenesis of multiple sclerosis: The eyes only see what the mind is prepared to comprehend. Annals of Neurology, 2004, 55, 455-457.	2.8	53
87	Structure of the Myelinated Axon. , 2004, , 3-27.		23
88	Cell Biology of Myelin Assembly. , 2004, , 29-55.		14
89	Axonal degeneration and progressive neurologic disability in multiple sclerosis. Neurotoxicity Research, 2003, 5, 157-164.	1.3	126
90	Depolarization-Induced Ca2+ Release in Ischemic Spinal Cord White Matter Involves L-type Ca2+ Channel Activation of Ryanodine Receptors. Neuron, 2003, 40, 53-63.	3.8	188

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91	Subpial Demyelination in the Cerebral Cortex of Multiple Sclerosis Patients. Journal of Neuropathology and Experimental Neurology, 2003, 62, 723-732.	0.9	625
92	VCAM-1-Positive Microglia Target Oligodendrocytes at the Border of Multiple Sclerosis Lesions. Journal of Neuropathology and Experimental Neurology, 2002, 61, 539-546.	0.9	80
93	Axon Loss in the Spinal Cord Determines Permanent Neurological Disability in an Animal Model of Multiple Sclerosis. Journal of Neuropathology and Experimental Neurology, 2002, 61, 23-32.	0.9	258
94	Premyelinating Oligodendrocytes in Chronic Lesions of Multiple Sclerosis. New England Journal of Medicine, 2002, 346, 165-173.	13.9	888
95	N-acetylaspartate is an axon-specific marker of mature white matter in vivo: A biochemical and immunohistochemical study on the rat optic nerve. Annals of Neurology, 2002, 51, 51-58.	2.8	161
96	Oligodendrogenesis is differentially regulated in gray and white matter of jimpy mice. Journal of Neuroscience Research, 2002, 70, 645-654.	1.3	24
97	The tetraspanin protein, CD9, is expressed by progenitor cells committed to oligodendrogenesis and is linked to Î²1 integrin, CD81, and Tspan-2. Glia, 2002, 40, 350-359.	2.5	69
98	Axonal and neuronal degeneration in multiple sclerosis: mechanisms and functional consequences. Current Opinion in Neurology, 2001, 14, 271-278.	1.8	408
99	Transected neurites, apoptotic neurons, and reduced inflammation in cortical multiple sclerosis lesions. Annals of Neurology, 2001, 50, 389-400.	2.8	1,239
100	Postmortem degradation of N-acetyl aspartate and N-acetyl aspartylglutamate: an HPLC analysis of different rat CNS regions. Neurochemical Research, 2001, 26, 695-702.	1.6	23
101	NG2-Positive Oligodendrocyte Progenitor Cells in Adult Human Brain and Multiple Sclerosis Lesions. Journal of Neuroscience, 2000, 20, 6404-6412.	1.7	655
102	FOREWORD. , 2000, 29, 103-103.		0
103	Neurological disability correlates with spinal cord axonal loss and reducedN-acetyl aspartate in chronic multiple sclerosis patients. Annals of Neurology, 2000, 48, 893-901.	2.8	524
104	Axo-Glial Septate Junctions. Journal of Cell Biology, 2000, 150, F97-F100.	2.3	28
105	P0 Glycoprotein Overexpression Causes Congenital Hypomyelination of Peripheral Nerves. Journal of Cell Biology, 2000, 148, 1021-1034.	2.3	145
106	Axonal pathology in myelin disorders. Journal of Neurocytology, 1999, 28, 383-395.	1.6	171
107	Pathogenesis of tissue injury in MS lesions. Journal of Neuroimmunology, 1999, 98, 49-56.	1.1	232
108	NG2+ Glial Cells: A Novel Glial Cell Population in the Adult Brain. Journal of Neuropathology and Experimental Neurology, 1999, 58, 1113-1124.	0.9	260

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109	Axonal pathology in multiple sclerosis: relationship to neurologic disability. Current Opinion in Neurology, 1999, 12, 295-302.	1.8	425
110	Demyelination in the central nervous system mediated by an anti-oligodendrocyte antibody. , 1998, 54, 158-168.		10
111	Axonal Transection in the Lesions of Multiple Sclerosis. New England Journal of Medicine, 1998, 338, 278-285.	13.9	3,776
112	Myelin-Associated Glycoprotein Is a Myelin Signal that Modulates the Caliber of Myelinated Axons. Journal of Neuroscience, 1998, 18, 1953-1962.	1.7	458
113	Differentiation and Death of Premyelinating Oligodendrocytes in Developing Rodent Brain. Journal of Cell Biology, 1997, 137, 459-468.	2.3	349
114	Amyloid Load and Neural Elements in Alzheimer's Disease and Nondemented Individuals with High Amyloid Plaque Density. Experimental Neurology, 1996, 142, 89-102.	2.0	37
115	Organization of microtubules in myelinating Schwann cells. Journal of Neurocytology, 1994, 23, 801-810.	1.6	29
116	Induction of nitric oxide synthase in demyelinating regions of multiple sclerosis brains. Annals of Neurology, 1994, 36, 778-786.	2.8	527
117	Myelination in the absence of myelin-associated glycoprotein. Nature, 1994, 369, 747-750.	13.7	349
118	Detection of MHC class II-antigens on macrophages and microglia, but not on astrocytes and endothelia in active multiple sclerosis lesions. Journal of Neuroimmunology, 1994, 51, 135-146.	1.1	237
119	Cerebral white matter changes in acquired immunodeficiency syndrome dementia: Alterations of the blood-brain barrier. Annals of Neurology, 1993, 34, 339-350.	2.8	345
120	Role of myelin Po protein as a homophilic adhesion molecule. Nature, 1990, 344, 871-872.	13.7	356
121	Myelin-Associated Glycoprotein Location and Potential Functions. Annals of the New York Academy of Sciences, 1990, 605, 29-43.	1.8	153
122	Oligodendrocytes but not astrocytes express apolipoprotein E after injury of rat optic nerve. Glia, 1989, 2, 170-176.	2.5	70
123	Ultrastructural and immunohistochemical analysis of axonal regrowth and myelination in membranes which form over lesion sites in the rat visual system. Journal of Neurocytology, 1988, 17, 797-808.	1.6	16
124	Cellular and Subcellular Distribution of 2',3'-Cyclic Nucleotide 3'-Phosphodiesterase and Its mRNA in the Rat Central Nervous System. Journal of Neurochemistry, 1988, 51, 859-868.	2.1	197
125	A quantitation of myelin-associated glycoprotein and myelin basic protein loss in different demyelinating disease. Annals of Neurology, 1985, 18, 324-328.	2.8	56
126	Immunocytochemical localization of the myelin-associated glycoprotein Fact or Artifact?. Journal of Neuroimmunology, 1984, 6, 231-249.	1.1	102

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127	Single-Nucleus RNA-seq of Normal-Appearing Brain Regions in Relapsing-Remitting vs. Secondary Progressive Multiple Sclerosis: Implications for the Efficacy of Fingolimod. Frontiers in Cellular Neuroscience, 0, 16, .	1.8	14