

Bruce D Trapp

List of Publications by Year in descending order

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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	Axonal Transection in the Lesions of Multiple Sclerosis. <i>New England Journal of Medicine</i> , 1998, 338, 278-285.	13.9	3,776
2	Multiple Sclerosis: An Immune or Neurodegenerative Disorder?. <i>Annual Review of Neuroscience</i> , 2008, 31, 247-269.	5.0	1,448
3	Transected neurites, apoptotic neurons, and reduced inflammation in cortical multiple sclerosis lesions. <i>Annals of Neurology</i> , 2001, 50, 389-400.	2.8	1,239
4	Pathological mechanisms in progressive multiple sclerosis. <i>Lancet Neurology</i> , The, 2015, 14, 183-193.	4.9	925
5	Premyelinating Oligodendrocytes in Chronic Lesions of Multiple Sclerosis. <i>New England Journal of Medicine</i> , 2002, 346, 165-173.	13.9	888
6	Mitochondrial dysfunction as a cause of axonal degeneration in multiple sclerosis patients. <i>Annals of Neurology</i> , 2006, 59, 478-489.	2.8	748
7	NG2-Positive Oligodendrocyte Progenitor Cells in Adult Human Brain and Multiple Sclerosis Lesions. <i>Journal of Neuroscience</i> , 2000, 20, 6404-6412.	1.7	655
8	Subpial Demyelination in the Cerebral Cortex of Multiple Sclerosis Patients. <i>Journal of Neuropathology and Experimental Neurology</i> , 2003, 62, 723-732.	0.9	625
9	Axon-Glial Signaling and the Glial Support of Axon Function. <i>Annual Review of Neuroscience</i> , 2008, 31, 535-561.	5.0	580
10	LINGO-1 negatively regulates myelination by oligodendrocytes. <i>Nature Neuroscience</i> , 2005, 8, 745-751.	7.1	553
11	Hyaluronan accumulates in demyelinated lesions and inhibits oligodendrocyte progenitor maturation. <i>Nature Medicine</i> , 2005, 11, 966-972.	15.2	529
12	Induction of nitric oxide synthase in demyelinating regions of multiple sclerosis brains. <i>Annals of Neurology</i> , 1994, 36, 778-786.	2.8	527
13	Neurological disability correlates with spinal cord axonal loss and reduced N-acetyl aspartate in chronic multiple sclerosis patients. <i>Annals of Neurology</i> , 2000, 48, 893-901.	2.8	524
14	Virtual hypoxia and chronic necrosis of demyelinated axons in multiple sclerosis. <i>Lancet Neurology</i> , The, 2009, 8, 280-291.	4.9	524
15	Myelin-Associated Glycoprotein Is a Myelin Signal that Modulates the Caliber of Myelinated Axons. <i>Journal of Neuroscience</i> , 1998, 18, 1953-1962.	1.7	458
16	Axonal pathology in multiple sclerosis: relationship to neurologic disability. <i>Current Opinion in Neurology</i> , 1999, 12, 295-302.	1.8	425
17	Activation of Necroptosis in Multiple Sclerosis. <i>Cell Reports</i> , 2015, 10, 1836-1849.	2.9	413
18	Axonal and neuronal degeneration in multiple sclerosis: mechanisms and functional consequences. <i>Current Opinion in Neurology</i> , 2001, 14, 271-278.	1.8	408

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19	Mechanisms of neuronal dysfunction and degeneration in multiple sclerosis. <i>Progress in Neurobiology</i> , 2011, 93, 1-12.	2.8	369
20	Role of myelin Po protein as a homophilic adhesion molecule. <i>Nature</i> , 1990, 344, 871-872.	13.7	356
21	Lipopolysaccharide-Induced Microglial Activation and Neuroprotection against Experimental Brain Injury Is Independent of Hematogenous TLR4. <i>Journal of Neuroscience</i> , 2012, 32, 11706-11715.	1.7	354
22	Myelination in the absence of myelin-associated glycoprotein. <i>Nature</i> , 1994, 369, 747-750.	13.7	349
23	Differentiation and Death of Premyelinating Oligodendrocytes in Developing Rodent Brain. <i>Journal of Cell Biology</i> , 1997, 137, 459-468.	2.3	349
24	Cerebral white matter changes in acquired immunodeficiency syndrome dementia: Alterations of the blood-brain barrier. <i>Annals of Neurology</i> , 1993, 34, 339-350.	2.8	345
25	Pathogenesis of axonal and neuronal damage in multiple sclerosis. <i>Neurology</i> , 2007, 68, S22-S31.	1.5	343
26	Evidence for synaptic stripping by cortical microglia. <i>Glia</i> , 2007, 55, 360-368.	2.5	293
27	Demyelination causes synaptic alterations in hippocampi from multiple sclerosis patients. <i>Annals of Neurology</i> , 2011, 69, 445-454.	2.8	269
28	NG2+ Glial Cells: A Novel Glial Cell Population in the Adult Brain. <i>Journal of Neuropathology and Experimental Neurology</i> , 1999, 58, 1113-1124.	0.9	260
29	Axon Loss in the Spinal Cord Determines Permanent Neurological Disability in an Animal Model of Multiple Sclerosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2002, 61, 23-32.	0.9	258
30	Detection of MHC class II-antigens on macrophages and microglia, but not on astrocytes and endothelia in active multiple sclerosis lesions. <i>Journal of Neuroimmunology</i> , 1994, 51, 135-146.	1.1	237
31	Microglial displacement of inhibitory synapses provides neuroprotection in the adult brain. <i>Nature Communications</i> , 2014, 5, 4486.	5.8	233
32	Pathogenesis of tissue injury in MS lesions. <i>Journal of Neuroimmunology</i> , 1999, 98, 49-56.	1.1	232
33	Cellular and Subcellular Distribution of 2',3'-Cyclic Nucleotide 3'-Phosphodiesterase and Its mRNA in the Rat Central Nervous System. <i>Journal of Neurochemistry</i> , 1988, 51, 859-868.	2.1	197
34	Cortical remyelination: A new target for repair therapies in multiple sclerosis. <i>Annals of Neurology</i> , 2012, 72, 918-926.	2.8	191
35	Depolarization-Induced Ca ²⁺ Release in Ischemic Spinal Cord White Matter Involves L-type Ca ²⁺ Channel Activation of Ryanodine Receptors. <i>Neuron</i> , 2003, 40, 53-63.	3.8	188
36	Relapsing and progressive forms of multiple sclerosis. <i>Current Opinion in Neurology</i> , 2014, 27, 271-278.	1.8	180

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37	Axonal pathology in myelin disorders. <i>Journal of Neurocytology</i> , 1999, 28, 383-395.	1.6	171
38	Hippocampal demyelination and memory dysfunction are associated with increased levels of the neuronal microRNA miR-124 and reduced AMPA receptors. <i>Annals of Neurology</i> , 2013, 73, 637-645.	2.8	164
39	N-acetylaspartate is an axon-specific marker of mature white matter in vivo: A biochemical and immunohistochemical study on the rat optic nerve. <i>Annals of Neurology</i> , 2002, 51, 51-58.	2.8	161
40	Myelination and Axonal Electrical Activity Modulate the Distribution and Motility of Mitochondria at CNS Nodes of Ranvier. <i>Journal of Neuroscience</i> , 2011, 31, 7249-7258.	1.7	158
41	Myelin-Associated Glycoprotein Location and Potential Functions. <i>Annals of the New York Academy of Sciences</i> , 1990, 605, 29-43.	1.8	153
42	Demyelination Increases Axonal Stationary Mitochondrial Size and the Speed of Axonal Mitochondrial Transport. <i>Journal of Neuroscience</i> , 2010, 30, 6658-6666.	1.7	151
43	P0 Glycoprotein Overexpression Causes Congenital Hypomyelination of Peripheral Nerves. <i>Journal of Cell Biology</i> , 2000, 148, 1021-1034.	2.3	145
44	Increased mitochondrial content in remyelinated axons: implications for multiple sclerosis. <i>Brain</i> , 2011, 134, 1901-1913.	3.7	131
45	Evolution of a neuroprotective function of central nervous system myelin. <i>Journal of Cell Biology</i> , 2006, 172, 469-478.	2.3	127
46	Axonal degeneration and progressive neurologic disability in multiple sclerosis. <i>Neurotoxicity Research</i> , 2003, 5, 157-164.	1.3	126
47	Imaging correlates of axonal swelling in chronic multiple sclerosis brains. <i>Annals of Neurology</i> , 2007, 62, 219-228.	2.8	107
48	Imaging correlates of decreased axonal Na ⁺ /K ⁺ ATPase in chronic multiple sclerosis lesions. <i>Annals of Neurology</i> , 2008, 63, 428-435.	2.8	106
49	Human myelin proteome and comparative analysis with mouse myelin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14605-14610.	3.3	105
50	Cortical neuronal densities and cerebral white matter demyelination in multiple sclerosis: a retrospective study. <i>Lancet Neurology</i> , The, 2018, 17, 870-884.	4.9	103
51	Immunocytochemical localization of the myelin-associated glycoprotein Fact or Artifact?. <i>Journal of Neuroimmunology</i> , 1984, 6, 231-249.	1.1	102
52	Glutamate receptors on myelinated spinal cord axons: I. GluR6 kainate receptors. <i>Annals of Neurology</i> , 2009, 65, 151-159.	2.8	100
53	Mitochondrial immobilization mediated by syntaphilin facilitates survival of demyelinated axons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9953-9958.	3.3	98
54	Glutamate receptors on myelinated spinal cord axons: II. AMPA and GluR5 receptors. <i>Annals of Neurology</i> , 2009, 65, 160-166.	2.8	97

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55	Mechanisms underlying progression in multiple sclerosis. <i>Current Opinion in Neurology</i> , 2020, 33, 277-285.	1.8	88
56	NG2-positive cells generate A2B5-positive oligodendrocyte precursor cells. <i>Glia</i> , 2007, 55, 1001-1010.	2.5	86
57	Activation of the ciliary neurotrophic factor (CNTF) signalling pathway in cortical neurons of multiple sclerosis patients. <i>Brain</i> , 2007, 130, 2566-2576.	3.7	83
58	T1â€T2â€weighted ratio differs in demyelinated cortex in multiple sclerosis. <i>Annals of Neurology</i> , 2017, 82, 635-639.	2.8	82
59	Neuropathobiology of multiple sclerosis. <i>Neurologic Clinics</i> , 2005, 23, 107-129.	0.8	81
60	VCAM-1-Positive Microglia Target Oligodendrocytes at the Border of Multiple Sclerosis Lesions. <i>Journal of Neuropathology and Experimental Neurology</i> , 2002, 61, 539-546.	0.9	80
61	Neurodegeneration and neuroprotection in multiple sclerosis and other neurodegenerative diseases. <i>Journal of Neuroimmunology</i> , 2006, 176, 198-215.	1.1	80
62	Clinically feasible MTR is sensitive to cortical demyelination in MS. <i>Neurology</i> , 2013, 80, 246-252.	1.5	79
63	pHERV-W envelope protein fuels microglial cell-dependent damage of myelinated axons in multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15216-15225.	3.3	78
64	Neurogenesis in the chronic lesions of multiple sclerosis. <i>Brain</i> , 2008, 131, 2366-2375.	3.7	74
65	Sodium Channel Expression Within Chronic Multiple Sclerosis Plaques. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007, 66, 828-837.	0.9	73
66	Axonal loss in multiple sclerosis. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2014, 122, 101-113.	1.0	71
67	Oligodendrocytes but not astrocytes express apolipoprotein E after injury of rat optic nerve. <i>Glia</i> , 1989, 2, 170-176.	2.5	70
68	Alterations in CA1 hippocampal synapses in a mouse model of fragile X syndrome. <i>Glia</i> , 2018, 66, 789-800.	2.5	70
69	The tetraspanin protein, CD9, is expressed by progenitor cells committed to oligodendrogenesis and is linked to Î²1 integrin, CD81, and Tspan-2. <i>Glia</i> , 2002, 40, 350-359.	2.5	69
70	Astrocyte response to IFN-Î³ limits IL-6-mediated microglia activation and progressive autoimmune encephalomyelitis. <i>Journal of Neuroinflammation</i> , 2015, 12, 79.	3.1	66
71	Imaging Correlates of Leukocyte Accumulation and CXCR4/CXCL12 in Multiple Sclerosis. <i>Archives of Neurology</i> , 2009, 66, 44-53.	4.9	63
72	A mouse model for testing remyelinating therapies. <i>Experimental Neurology</i> , 2016, 283, 330-340.	2.0	62

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73	Gray-Matter Injury in Multiple Sclerosis. <i>New England Journal of Medicine</i> , 2009, 361, 1505-1506.	13.9	59
74	A quantitation of myelin-associated glycoprotein and myelin basic protein loss in different demyelinating disease. <i>Annals of Neurology</i> , 1985, 18, 324-328.	2.8	56
75	Hippocampal volume is related to cognitive decline and fornix diffusion measures in multiple sclerosis. <i>Magnetic Resonance Imaging</i> , 2014, 32, 354-358.	1.0	54
76	DNA methylation in demyelinated multiple sclerosis hippocampus. <i>Scientific Reports</i> , 2017, 7, 8696.	1.6	54
77	Pathogenesis of multiple sclerosis: The eyes only see what the mind is prepared to comprehend. <i>Annals of Neurology</i> , 2004, 55, 455-457.	2.8	53
78	Enhanced axonal response of mitochondria to demyelination offers neuroprotection: implications for multiple sclerosis. <i>Acta Neuropathologica</i> , 2020, 140, 143-167.	3.9	48
79	Proteolipid protein-deficient myelin promotes axonal mitochondrial dysfunction via altered metabolic coupling. <i>Journal of Cell Biology</i> , 2016, 215, 531-542.	2.3	47
80	NG2-positive glia in the human central nervous system. <i>Neuron Glia Biology</i> , 2009, 5, 35-44.	2.0	39
81	Aggressive multiple sclerosis (1): Towards a definition of the phenotype. <i>Multiple Sclerosis Journal</i> , 2020, 26, 1031-1044.	1.4	39
82	Clonally expanded mitochondrial DNA deletions within the choroid plexus in multiple sclerosis. <i>Acta Neuropathologica</i> , 2012, 124, 209-220.	3.9	38
83	Amyloid Load and Neural Elements in Alzheimer's Disease and Nondemented Individuals with High Amyloid Plaque Density. <i>Experimental Neurology</i> , 1996, 142, 89-102.	2.0	37
84	Is Axonal Degeneration a Key Early Event in Parkinson's Disease?. <i>Journal of Parkinson's Disease</i> , 2016, 6, 703-707.	1.5	36
85	Relapses in multiple sclerosis: Relationship to disability. <i>Multiple Sclerosis and Related Disorders</i> , 2016, 6, 10-20.	0.9	36
86	Dysmyelinated Lower Motor Neurons Retract and Regenerate Dysfunctional Synaptic Terminals. <i>Journal of Neuroscience</i> , 2004, 24, 3890-3898.	1.7	35
87	Intrinsic and Extrinsic Mechanisms of Thalamic Pathology in Multiple Sclerosis. <i>Annals of Neurology</i> , 2020, 88, 81-92.	2.8	33
88	Discrepancy in CCL2 and CCR2 expression in white versus grey matter hippocampal lesions of Multiple Sclerosis patients. <i>Acta Neuropathologica Communications</i> , 2014, 2, 98.	2.4	32
89	Microglial Displacement of GABAergic Synapses Is a Protective Event during Complex Febrile Seizures. <i>Cell Reports</i> , 2020, 33, 108346.	2.9	32
90	γ IV tubulin is selectively expressed by oligodendrocytes in the central nervous system. <i>Glia</i> , 2005, 50, 212-222.	2.5	30

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91	Organization of microtubules in myelinating Schwann cells. <i>Journal of Neurocytology</i> , 1994, 23, 801-810.	1.6	29
92	Axo-Glial Septate Junctions. <i>Journal of Cell Biology</i> , 2000, 150, F97-F100.	2.3	28
93	Gene expression profiling in multiple sclerosis brain. <i>Neurobiology of Disease</i> , 2012, 45, 108-114.	2.1	25
94	Mitochondrial fission augments capsaicin-induced axonal degeneration. <i>Acta Neuropathologica</i> , 2015, 129, 81-96.	3.9	25
95	Oligodendrogenesis is differentially regulated in gray and white matter of jimpy mice. <i>Journal of Neuroscience Research</i> , 2002, 70, 645-654.	1.3	24
96	Protein Is Required for and Can Induce Formation of Schmidt-Lantermann Incisures in Myelin Internodes. <i>Journal of Neuroscience</i> , 2008, 28, 7068-7073.	1.7	24
97	Å4 Tubulin Identifies a Primitive Cell Source for Oligodendrocytes in the Mammalian Brain. <i>Journal of Neuroscience</i> , 2009, 29, 7649-7657.	1.7	24
98	Integrin-Kindlin3 requirements for microglial motility in vivo are distinct from those for macrophages. <i>JCI Insight</i> , 2017, 2, .	2.3	24
99	Hippocampal Neurogenesis and Neural Circuit Formation in a Cuprizone-Induced Multiple Sclerosis Mouse Model. <i>Journal of Neuroscience</i> , 2020, 40, 447-458.	1.7	24
100	Postmortem degradation of N-acetyl aspartate and N-acetyl aspartylglutamate: an HPLC analysis of different rat CNS regions. <i>Neurochemical Research</i> , 2001, 26, 695-702.	1.6	23
101	Structure of the Myelinated Axon. , 2004, , 3-27.		23
102	Lateral cerebellar nucleus stimulation promotes motor recovery and suppresses neuroinflammation in a fluid percussion injury rodent model. <i>Brain Stimulation</i> , 2018, 11, 1356-1367.	0.7	23
103	Sensitivity of T1/T2-weighted ratio in detection of cortical demyelination is similar to magnetization transfer ratio using post-mortem MRI. <i>Multiple Sclerosis Journal</i> , 2022, 28, 198-205.	1.4	18
104	Ultrastructural and immunohistochemical analysis of axonal regrowth and myelination in membranes which form over lesion sites in the rat visual system. <i>Journal of Neurocytology</i> , 1988, 17, 797-808.	1.6	16
105	Discovery of 1,2,3-Triazole Derivatives for Multimodality PET/CT/Cryoimaging of Myelination in the Central Nervous System. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 987-999.	2.9	16
106	High spatial and angular resolution diffusion-weighted imaging reveals forniceal damage related to memory impairment. <i>Magnetic Resonance Imaging</i> , 2013, 31, 695-699.	1.0	15
107	Cell Biology of Myelin Assembly. , 2004, , 29-55.		14
108	Single-Nucleus RNA-seq of Normal-Appearing Brain Regions in Relapsing-Remitting vs. Secondary Progressive Multiple Sclerosis: Implications for the Efficacy of Fingolimod. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, .	1.8	14

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109	Reversible Loss of Hippocampal Function in a Mouse Model of Demyelination/Remyelination. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 588.	1.8	13
110	Axonal Degeneration in Multiple Sclerosis: The Histopathological Evidence. , 2005, , 165-184.		12
111	Comprehensive Autopsy Program for Individuals with Multiple Sclerosis. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	12
112	Demyelination in the central nervous system mediated by an anti-oligodendrocyte antibody. , 1998, 54, 158-168.		10
113	Cuprizone does not induce <scp>CNS</scp> demyelination in nonhuman primates. <i>Annals of Clinical and Translational Neurology</i> , 2015, 2, 208-213.	1.7	10
114	Neuronal hibernation following hippocampal demyelination. <i>Acta Neuropathologica Communications</i> , 2021, 9, 34.	2.4	9
115	Taking Two TRAILS. <i>Neuron</i> , 2005, 46, 355-356.	3.8	8
116	Proteolipid protein cannot replace P₀ protein as the major structural protein of peripheral nervous system myelin. <i>Glia</i> , 2015, 63, 66-77.	2.5	5
117	Juxtacortical susceptibility changes in progressive multifocal leukoencephalopathy at the grayâ€“white matter junction correlates with iron-enriched macrophages. <i>Multiple Sclerosis Journal</i> , 2021, 27, 135245852199965.	1.4	5
118	N-Acetyl-L-Aspartate in Multiple Sclerosis. , 2006, 576, 199-214.		5
119	Rescue of Congenital Hypomyelination by Progenitor Cell Transplantation. <i>Cell Stem Cell</i> , 2008, 2, 519-520.	5.2	4
120	Identifying a new subtype of multiple sclerosis. <i>Neurodegenerative Disease Management</i> , 2018, 8, 367-369.	1.2	3
121	The pathology of multiple sclerosis. , 2011, , 12-19.		2
122	Neurogenesis in the chronic lesions of multiple sclerosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007, 66, 431.	0.9	1
123	Diseases Involving Myelin. , 2012, , 691-704.		1
124	FOREWORD. , 2000, 29, 103-103.		0
125	Lessons from Jack Griffin and the â€œpathogenesis of peripheral nerve diseaseâ€œ. <i>Journal of the Peripheral Nervous System</i> , 2012, 17, 20-23.	1.4	0
126	Much, if not all, of the cortical damage in MS can be attributed to the microglial cell â€œ No. <i>Multiple Sclerosis Journal</i> , 2018, 24, 897-899.	1.4	0

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127	Is Multiple Sclerosis a Neurodegenerative Disorder?. Blue Books of Neurology, 2010, 35, 371-387.	0.1	0