

# Kenneth J Smith

## List of Publications by Year in descending order

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103  
papers

8,521  
citations

57758

44  
h-index

45317

90  
g-index

108  
all docs

108  
docs citations

108  
times ranked

7830  
citing authors

#	ARTICLE	IF	CITATIONS
1	High Dietary Fat Consumption Impairs Axonal Mitochondrial Function <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2021, 41, 4321-4334.	3.6	14
2	A Hyperspectral Imaging System for Mapping Haemoglobin and Cytochrome-c-Oxidase Concentration Changes in the Exposed Cerebral Cortex. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-11.	2.9	9
3	Reply to: Rethink the classical view of cerebrospinal fluid production. <i>Nature Reviews Neurology</i> , 2021, 17, 590-591.	10.1	1
4	Systematic approach to selecting licensed drugs for repurposing in the treatment of progressive multiple sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 295-302.	1.9	15
5	Enhanced axonal response of mitochondria to demyelination offers neuroprotection: implications for multiple sclerosis. <i>Acta Neuropathologica</i> , 2020, 140, 143-167.	7.7	48
6	Perivascular spaces in the brain: anatomy, physiology and pathology. <i>Nature Reviews Neurology</i> , 2020, 16, 137-153.	10.1	405
7	Nimodipine Reduces Dysfunction and Demyelination in Models of Multiple Sclerosis. <i>Annals of Neurology</i> , 2020, 88, 123-136.	5.3	19
8	Understanding the role of the perivascular space in cerebral small vessel disease. <i>Cardiovascular Research</i> , 2018, 114, 1462-1473.	3.8	211
9	Mitochondrial damage and "plugging" of transport selectively in myelinated, small-diameter axons are major early events in peripheral neuroinflammation. <i>Journal of Neuroinflammation</i> , 2018, 15, 61.	7.2	13
10	Hyperspectral Imaging of the Hemodynamic and Metabolic States of the Exposed Cortex: Investigating a Commercial Snapshot Solution. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 13-20.	1.6	4
11	A multispectral microscope for <i>in vivo</i> oximetry of rat dorsal spinal cord vasculature. <i>Physiological Measurement</i> , 2017, 38, 205-218.	2.1	9
12	Understanding a role for hypoxia in lesion formation and location in the deep and periventricular white matter in small vessel disease and multiple sclerosis. <i>Clinical Science</i> , 2017, 131, 2503-2524.	4.3	74
13	Experimental autoimmune encephalomyelitis from a tissue energy perspective. <i>F1000Research</i> , 2017, 6, 1973.	1.6	8
14	Neuroprotection by safinamide in the 6-hydroxydopamine model of Parkinson's disease. <i>Neuropathology and Applied Neurobiology</i> , 2016, 42, 423-435.	3.2	36
15	Cause and prevention of demyelination in a model multiple sclerosis lesion. <i>Annals of Neurology</i> , 2016, 79, 591-604.	5.3	66
16	Immunohistochemical evidence of tissue hypoxia and astrogliosis in the rostral ventrolateral medulla of spontaneously hypertensive rats. <i>Brain Research</i> , 2016, 1650, 178-183.	2.2	14
17	Mitochondrial dysfunction is an important cause of neurological deficits in an inflammatory model of multiple sclerosis. <i>Scientific Reports</i> , 2016, 6, 33249.	3.3	89
18	Mitochondrial Function and Dynamics Imaged <i>In Vivo</i> . , 2016, , 329-345.		0

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19	Hypothermia protects brain mitochondrial function from hypoxemia in a murine model of sepsis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1955-1964.	4.3	23
20	Axonal morphological changes following impulse activity in mouse peripheral nerve <i>in vivo</i> : the return pathway for sodium ions. <i>Journal of Physiology</i> , 2015, 593, 987-1002.	2.9	14
21	A Genome-wide Gene-Expression Analysis and Database in Transgenic Mice during Development of Amyloid or Tau Pathology. <i>Cell Reports</i> , 2015, 10, 633-644.	6.4	247
22	Neurological deficits caused by tissue hypoxia in neuroinflammatory disease. <i>Annals of Neurology</i> , 2013, 74, 815-825.	5.3	114
23	Axonal Protection with Sodium Channel Blocking Agents in Models of Multiple Sclerosis. , 2013, , 179-201.		0
24	Safinamide and flecainide protect axons and reduce microglial activation in models of multiple sclerosis. <i>Brain</i> , 2013, 136, 1067-1082.	7.6	67
25	Impulse Conduction Increases Mitochondrial Transport in Adult Mammalian Peripheral Nerves <i>In Vivo</i> . <i>PLoS Biology</i> , 2013, 11, e1001754.	5.6	72
26	Lamotrigine monotherapy does not provide protection against the loss of optic nerve axons in a rat model of ocular hypertension. <i>Experimental Eye Research</i> , 2012, 104, 1-6.	2.6	1
27	The role of CD8 <sup>+</sup> T cells in a model of multiple sclerosis induced with recombinant myelin oligodendrocyte glycoprotein. <i>Multiple Sclerosis Journal</i> , 2012, 18, 286-298.	3.0	7
28	Axonal protection achieved by blockade of sodium/calcium exchange in a new model of ischemia <i>in vivo</i> . <i>Neuropharmacology</i> , 2012, 63, 405-414.	4.1	6
29	Neuroprotection and repair in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2012, 8, 624-634.	10.1	235
30	Mesenchymal Stem Cells Lack Efficacy in the Treatment of Experimental Autoimmune Neuritis despite <i>In Vitro</i> Inhibition of T-Cell Proliferation. <i>PLoS ONE</i> , 2012, 7, e30708.	2.5	19
31	Clinical and imaging correlates of the multiple sclerosis impact scale in secondary progressive multiple sclerosis. <i>Journal of Neurology</i> , 2012, 259, 237-245.	3.6	17
32	Longitudinal changes in magnetisation transfer ratio in secondary progressive multiple sclerosis: data from a randomised placebo controlled trial of lamotrigine. <i>Journal of Neurology</i> , 2012, 259, 505-514.	3.6	25
33	Mitochondrial Changes Associated with Demyelination: Consequences for Axonal Integrity. , 2012, , 175-190.		1
34	Newly lesioned tissue in multiple sclerosis—a role for oxidative damage?. <i>Brain</i> , 2011, 134, 1877-1881.	7.6	23
35	Inflammation induced by innate immunity in the central nervous system leads to primary astrocyte dysfunction followed by demyelination. <i>Acta Neuropathologica</i> , 2010, 120, 223-236.	7.7	150
36	A longitudinal study of MRI-detected atrophy in secondary progressive multiple sclerosis. <i>Journal of Neurology</i> , 2010, 257, 1508-1516.	3.6	42

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37	Lamotrigine for neuroprotection in secondary progressive multiple sclerosis: a randomised, double-blind, placebo-controlled, parallel-group trial. <i>Lancet Neurology</i> , The, 2010, 9, 681-688.	10.2	239
38	Origins of Gliogenic Stem Cell Populations Within Adult Skin and Bone Marrow. <i>Stem Cells and Development</i> , 2010, 19, 1055-1065.	2.1	9
39	Different white matter lesion characteristics correlate with distinct grey matter abnormalities on magnetic resonance imaging in secondary progressive multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2009, 15, 687-694.	3.0	13
40	Grey matter magnetization transfer ratio independently correlates with neurological deficit in secondary progressive multiple sclerosis. <i>Journal of Neurology</i> , 2009, 256, 427-435.	3.6	27
41	Detection of cytochrome c oxidase activity and mitochondrial proteins in single cells. <i>Journal of Neuroscience Methods</i> , 2009, 184, 310-319.	2.5	30
42	Magnetic resonance imaging measures of brain and spinal cord atrophy correlate with clinical impairment in secondary progressive multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2008, 14, 1068-1075.	3.0	69
43	Botulinum toxin for detrusor overactivity and symptoms of overactive bladder: where we are now and where we are going. <i>Nature Reviews Urology</i> , 2007, 4, 379-386.	1.4	13
44	Lesion genesis in a subset of patients with multiple sclerosis: a role for innate immunity?. <i>Brain</i> , 2007, 130, 2800-2815.	7.6	272
45	Sodium Channels and Multiple Sclerosis: Roles in Symptom Production, Damage and Therapy. <i>Brain Pathology</i> , 2007, 17, 230-242.	4.1	106
46	The pathogenesis of multiple sclerosis: a pandect. , 2006, , 661-668.		1
47	The pathophysiology of multiple sclerosis. , 2006, , 601-659.		9
48	The neurobiology of multiple sclerosis. , 2006, , 449-490.		2
49	The diagnosis of multiple sclerosis. , 2006, , 347-388.		8
50	Axonal protection achieved in a model of multiple sclerosis using lamotrigine. <i>Journal of Neurology</i> , 2006, 253, 1542-1551.	3.6	119
51	Axonal protection in multiple sclerosis—a particular need during remyelination?. <i>Brain</i> , 2006, 129, 3147-3149.	7.6	42
52	Remyelination of dorsal column axons by endogenous Schwann cells restores the normal pattern of Nav1.6 and Kv1.2 at nodes of Ranvier. <i>Brain</i> , 2006, 129, 1319-1329.	7.6	79
53	Inflammation and primary demyelination induced by the intraspinal injection of lipopolysaccharide. <i>Brain</i> , 2005, 128, 1649-1666.	7.6	150
54	Sodium-mediated axonal degeneration in inflammatory demyelinating disease. <i>Journal of the Neurological Sciences</i> , 2005, 233, 27-35.	0.6	71

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55	The Conduction Properties of Demyelinated and Remyelinated Axons. , 2005, , 85-100.		16
56	Nitric Oxide and Axonal Pathophysiology. , 2005, , 255-273.		2
57	Axonal protection in experimental autoimmune neuritis by the sodium channel blocking agent flecainide. Brain, 2004, 128, 18-28.	7.6	65
58	Axonal protection using flecainide in experimental autoimmune encephalomyelitis. Annals of Neurology, 2004, 55, 607-616.	5.3	188
59	Characterisation of matrix metalloproteinases and the effects of a broad-spectrum inhibitor (BB-1101) in peripheral nerve regeneration. Neuroscience, 2004, 124, 767-779.	2.3	44
60	Effects on axonal conduction of anti-ganglioside sera and sera from patients with Guillain-Barré syndrome. Journal of Neuroimmunology, 2003, 139, 133-140.	2.3	25
61	Blockers of sodium and calcium entry protect axons from nitric oxide-mediated degeneration. Annals of Neurology, 2003, 53, 174-180.	5.3	254
62	Chapter 5 Mechanisms of Symptom Production. Blue Books of Practical Neurology, 2003, , 59-74.	0.1	1
63	Brain-derived neurotrophic factor in experimental autoimmune neuritis. Journal of Neuroimmunology, 2002, 124, 62-69.	2.3	19
64	The role of nitric oxide in multiple sclerosis. Lancet Neurology, The, 2002, 1, 232-241.	10.2	491
65	Accumulation of immunoglobulin across the "blood-nerve barrier" in spinal roots in adoptive transfer experimental autoimmune neuritis. Neuropathology and Applied Neurobiology, 2002, 28, 489-497.	3.2	35
66	Multiple sclerosis: more than inflammation and demyelination. Trends in Neurosciences, 2001, 24, 435-437.	8.6	33
67	Factors directly affecting impulse transmission in inflammatory demyelinating disease: recent advances in our understanding. Current Opinion in Neurology, 2001, 14, 289-298.	3.6	44
68	Electrically active axons degenerate when exposed to nitric oxide. Annals of Neurology, 2001, 49, 470-476.	5.3	309
69	Electrically active axons degenerate when exposed to nitric oxide. Annals of Neurology, 2001, 49, 470-476.	5.3	8
70	Tumour necrosis factor- $\alpha$ has few morphological effects within the dorsal columns of the spinal cord, in contrast to its effects in the peripheral nervous system. Journal of Neuroimmunology, 2000, 106, 130-136.	2.3	23
71	Effects of 4-aminopyridine on demyelinated axons, synapses and muscle tension. Brain, 2000, 123, 171-184.	7.6	136
72	Temporary Axonal Conduction Block and Axonal Loss in Inflammatory Neurological Disease: A Potential Role for Nitric Oxide?. Annals of the New York Academy of Sciences, 1999, 893, 304-308.	3.8	38

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73	Pathogenesis of Guillain-Barré syndrome. <i>Journal of Neuroimmunology</i> , 1999, 100, 74-97.	2.3	390
74	The pathophysiology of multiple sclerosis® the mechanisms underlying the production of symptoms and the natural history of the disease. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999, 354, 1649-1673.	4.0	281
75	Demyelination: The Role of Reactive Oxygen and Nitrogen Species. <i>Brain Pathology</i> , 1999, 9, 69-92.	4.1	502
76	REVIEW – : Axonal Hyperexcitability: Mechanisms and Role in Symptom Production in Demyelinating Diseases. <i>Neuroscientist</i> , 1997, 3, 237-246.	3.5	16
77	Immunological investigation of chronic inflammatory demyelinating polyradiculoneuropathy. <i>Journal of Neuroimmunology</i> , 1997, 73, 124-134.	2.3	118
78	Conduction in Segmentally Demyelinated Mammalian Central Axons. <i>Journal of Neuroscience</i> , 1997, 17, 7267-7277.	3.6	185
79	Blood-brain barrier permeability in astrocyte-free regions of the central nervous system remyelinated by Schwann cells. <i>Neuroscience</i> , 1996, 75, 643-655.	2.3	21
80	A mechanism for ectopic firing in central demyelinated axons. <i>Brain</i> , 1995, 118, 1225-1231.	7.6	67
81	Conduction properties of central demyelinated and remyelinated axons, and their relation to symptom production in demyelinating disorders. <i>Eye</i> , 1994, 8, 224-237.	2.1	54
82	The use of potassium channel blocking agents in the therapy of demyelinating diseases. <i>Annals of Neurology</i> , 1994, 36, 454-454.	5.3	16
83	Internodal potassium currents can generate ectopic impulses in mammalian myelinated axons. <i>Brain Research</i> , 1993, 611, 165-169.	2.2	40
84	Is CNS trauma a prerequisite for the elongation of CNS axons into denervated peripheral nerve?. <i>Brain Research</i> , 1992, 575, 79-85.	2.2	8
85	Conduction properties of central nerve fibers remyelinated by Schwann cells. <i>Brain Research</i> , 1992, 574, 178-192.	2.2	135
86	Distribution of sodium channels in chronically demyelinated spinal cord axons: immuno-ultrastructural localization and electrophysiological observations. <i>Brain Research</i> , 1991, 544, 59-70.	2.2	76
87	Reinnervation of denervated skeletal muscle by central neurons regenerating via ventral roots implanted into the spinal cord. <i>Brain Research</i> , 1991, 551, 221-229.	2.2	20
88	Peripheral demyelination and remyelination initiated by the calcium-selective ionophore ionomycin: In vivo observations. <i>Journal of the Neurological Sciences</i> , 1988, 83, 37-53.	0.6	64
89	Repair of severed peripheral nerves: Comparison of the Medinaceli and standard microsuture methods. <i>Experimental Neurology</i> , 1987, 96, 672-680.	4.1	37
90	Vesicular demyelination induced by raised intracellular calcium. <i>Journal of the Neurological Sciences</i> , 1985, 71, 19-37.	0.6	48

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91	Node-like axonal specialisations along demyelinated central nerve fibres: Ultrastructural observations. <i>Acta Neuropathologica</i> , 1983, 60, 291-296.	7.7	43
92	Internodal myelin volume and axon surface area. <i>Journal of the Neurological Sciences</i> , 1982, 55, 231-246.	0.6	57
93	Spontaneous and evoked electrical discharges from a central demyelinating lesion. <i>Journal of the Neurological Sciences</i> , 1982, 55, 39-48.	0.6	97
94	Saltatory conduction precedes remyelination in axons demyelinated with lysophosphatidyl choline. <i>Journal of the Neurological Sciences</i> , 1982, 54, 13-31.	0.6	157
95	â€˜Nodeâ€™ formation precedes remyelination. <i>Trends in Neurosciences</i> , 1982, 5, 196-199.	8.6	4
96	THE RESTORATION OF CONDUCTION BY CENTRAL REMYELINATION. <i>Brain</i> , 1981, 104, 383-404.	7.6	183
97	Size-dependent variation of nodal properties in myelinated nerve. <i>Nature</i> , 1981, 293, 297-299.	27.8	35
98	Gallamine triethiodide (flaxedil): tetraethylammonium- and pancuronium-like effects in myelinated nerve fibers. <i>Science</i> , 1981, 212, 1170-1172.	12.6	22
99	Spontaneous and mechanically evoked activity due to central demyelinating lesion. <i>Nature</i> , 1980, 286, 154-155.	27.8	115
100	A sensitive method for the detection and quantification of conduction deficits in nerve. <i>Journal of the Neurological Sciences</i> , 1980, 48, 191-199.	0.6	35
101	Nerve conduction during peripheral demyelination and remyelination. <i>Journal of the Neurological Sciences</i> , 1980, 48, 201-219.	0.6	121
102	Central remyelination restores secure conduction. <i>Nature</i> , 1979, 280, 395-396.	27.8	292
103	Remyelination in the spinal cord of the cat following intraspinal injections of lysolecithin. <i>Journal of the Neurological Sciences</i> , 1977, 33, 31-43.	0.6	141