

Michael A Moskowitz

List of Publications by Citations

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109
papers

25,274
citations

65
h-index

134
g-index

134
ext. papers

27,485
ext. citations

9.8
avg, IF

6.84
L-index

#	Paper	IF	Citations
109	Pathobiology of ischaemic stroke: an integrated view. <i>Trends in Neurosciences</i> , 1999 , 22, 391-7	13.3	3094
108	Chemical inhibitor of nonapoptotic cell death with therapeutic potential for ischemic brain injury. <i>Nature Chemical Biology</i> , 2005 , 1, 112-9	11.7	1874
107	Hypertension in mice lacking the gene for endothelial nitric oxide synthase. <i>Nature</i> , 1995 , 377, 239-42	50.4	1753
106	Mechanisms, challenges and opportunities in stroke. <i>Nature Reviews Neuroscience</i> , 2003 , 4, 399-415	13.5	1363
105	The science of stroke: mechanisms in search of treatments. <i>Neuron</i> , 2010 , 67, 181-98	13.9	1329
104	Intrinsic brain activity triggers trigeminal meningeal afferents in a migraine model. <i>Nature Medicine</i> , 2002 , 8, 136-42	50.5	909
103	The neurobiology of vascular head pain. <i>Annals of Neurology</i> , 1984 , 16, 157-68	9.4	769
102	Activation and cleavage of caspase-3 in apoptosis induced by experimental cerebral ischemia. <i>Journal of Neuroscience</i> , 1998 , 18, 3659-68	6.6	745
101	Cyclophilin D is a component of mitochondrial permeability transition and mediates neuronal cell death after focal cerebral ischemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12005-10	11.5	671
100	Enlarged infarcts in endothelial nitric oxide synthase knockout mice are attenuated by nitro-L-arginine. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996 , 16, 981-7	7.3	628
99	Nitric oxide synthase inhibition and cerebrovascular regulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1994 , 14, 175-92	7.3	597
98	Ischemic brain injury is mediated by the activation of poly(ADP-ribose)polymerase. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1997 , 17, 1143-51	7.3	561
97	Attenuation of delayed neuronal death after mild focal ischemia in mice by inhibition of the caspase family. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998 , 18, 238-47	7.3	502
96	Suppression of cortical spreading depression in migraine prophylaxis. <i>Annals of Neurology</i> , 2006 , 59, 652-61	9.4	440
95	Pathophysiology of migraine. <i>Annual Review of Physiology</i> , 2013 , 75, 365-91	23.1	415
94	Reduced brain edema and infarction volume in mice lacking the neuronal isoform of nitric oxide synthase after transient MCA occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996 , 16, 605-11	7.3	372
93	Rapid monocyte kinetics in acute myocardial infarction are sustained by extramedullary monocytopoiesis. <i>Journal of Experimental Medicine</i> , 2012 , 209, 123-37	16.6	342

92	Cortical spreading depression activates and upregulates MMP-9. <i>Journal of Clinical Investigation</i> , 2004 , 113, 1447-1455	15.9	332
91	Early release of HMGB-1 from neurons after the onset of brain ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008 , 28, 927-38	7.3	330
90	Inhibition of Rho kinase (ROCK) leads to increased cerebral blood flow and stroke protection. <i>Stroke</i> , 2005 , 36, 2251-7	6.7	308
89	Trigeminal projections to supratentorial pial and dural blood vessels in cats demonstrated by horseradish peroxidase histochemistry. <i>Journal of Comparative Neurology</i> , 1984 , 223, 46-56	3.4	302
88	Mevastatin, an HMG-CoA reductase inhibitor, reduces stroke damage and upregulates endothelial nitric oxide synthase in mice. <i>Stroke</i> , 2001 , 32, 980-6	6.7	283
87	The NOS inhibitor, 7-nitroindazole, decreases focal infarct volume but not the response to topical acetylcholine in pial vessels. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1994 , 14, 924-9	7.3	273
86	Perfusion-weighted imaging defects during spontaneous migrainous aura. <i>Annals of Neurology</i> , 1998 , 43, 25-31	9.4	267
85	Caspase activation and neuroprotection in caspase-3- deficient mice after in vivo cerebral ischemia and in vitro oxygen glucose deprivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 15188-93	11.5	265
84	Vasoconstrictive neurovascular coupling during focal ischemic depolarizations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006 , 26, 1018-30	7.3	251
83	Chaos and commotion in the wake of cortical spreading depression and spreading depolarizations. <i>Nature Reviews Neuroscience</i> , 2014 , 15, 379-93	13.5	226
82	Laser speckle flowmetry for the study of cerebrovascular physiology in normal and ischemic mouse cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004 , 24, 744-55	7.3	225
81	Attenuation of transient focal cerebral ischemic injury in transgenic mice expressing a mutant ICE inhibitory protein. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1997 , 17, 370-5	7.3	219
80	Neuroprotection mediated by changes in the endothelial actin cytoskeleton. <i>Journal of Clinical Investigation</i> , 2000 , 106, 15-24	15.9	219
79	Migraine as an inflammatory disorder. <i>Neurology</i> , 2005 , 64, S9-15	6.5	219
78	Microemboli may link spreading depression, migraine aura, and patent foramen ovale. <i>Annals of Neurology</i> , 2010 , 67, 221-9	9.4	210
77	Poly(ADP-ribose) polymerase-1 activity promotes NF-kappaB-driven transcription and microglial activation: implication for neurodegenerative disorders. <i>Journal of Neurochemistry</i> , 2003 , 85, 306-17	6	199
76	Prolonged therapeutic window for ischemic brain damage caused by delayed caspase activation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998 , 18, 1071-6	7.3	187
75	Genetic and hormonal factors modulate spreading depression and transient hemiparesis in mouse models of familial hemiplegic migraine type 1. <i>Journal of Clinical Investigation</i> , 2009 , 119, 99-109	15.9	187

74	Deciphering migraine mechanisms: clues from familial hemiplegic migraine genotypes. <i>Annals of Neurology</i> , 2004 , 55, 276-80	9.4	185
73	Adiponectin prevents cerebral ischemic injury through endothelial nitric oxide synthase dependent mechanisms. <i>Circulation</i> , 2008 , 117, 216-23	16.7	182
72	Mechanisms of reduced striatal NMDA excitotoxicity in type I nitric oxide synthase knock-out mice. <i>Journal of Neuroscience</i> , 1997 , 17, 6908-17	6.6	175
71	Immunohistochemical evidence for a substance P-containing trigeminovascular pathway to pial arteries in cats. <i>Brain Research</i> , 1983 , 268, 162-6	3.7	155
70	Nuclear translocation of apoptosis-inducing factor after focal cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004 , 24, 458-66	7.3	154
69	Ergot alkaloids block neurogenic extravasation in dura mater: proposed action in vascular headaches. <i>Annals of Neurology</i> , 1988 , 24, 732-7	9.4	154
68	Pretreatment with intraventricular basic fibroblast growth factor decreases infarct size following focal cerebral ischemia in rats. <i>Annals of Neurology</i> , 1994 , 35, 451-7	9.4	146
67	The complex role of nitric oxide in the pathophysiology of focal cerebral ischemia. <i>Brain Pathology</i> , 1994 , 4, 49-57	6	140
66	Direct vascular channels connect skull bone marrow and the brain surface enabling myeloid cell migration. <i>Nature Neuroscience</i> , 2018 , 21, 1209-1217	25.5	139
65	Nuclear factor-kappaB as a molecular target for migraine therapy. <i>Annals of Neurology</i> , 2002 , 51, 507-16	9.4	138
64	Synergistic effects of caspase inhibitors and MK-801 in brain injury after transient focal cerebral ischaemia in mice. <i>British Journal of Pharmacology</i> , 1998 , 124, 756-62	8.6	135
63	Evidence for 5-HT _{1B/1D} receptors mediating the antimigraine effect of sumatriptan and dihydroergotamine. <i>Cephalalgia</i> , 1991 , 11, 165-8	6.1	133
62	Cell biology. PARP-1--a perpetrator of apoptotic cell death?. <i>Science</i> , 2002 , 297, 200-1	33.3	129
61	Ischemic stroke activates hematopoietic bone marrow stem cells. <i>Circulation Research</i> , 2015 , 116, 407-17	15.7	126
60	Migraine aura pathophysiology: the role of blood vessels and microembolisation. <i>Lancet Neurology</i> , 2010 , 9, 309-17	24.1	126
59	Migraine mutations increase stroke vulnerability by facilitating ischemic depolarizations. <i>Circulation</i> , 2012 , 125, 335-45	16.7	123
58	Cluster headache: evidence for a pathophysiologic focus in the superior pericarotid cavernous sinus plexus. <i>Headache</i> , 1988 , 28, 584-6	4.2	117
57	Migraine and the trigeminovascular system-40 years and counting. <i>Lancet Neurology</i> , 2019 , 18, 795-804	20.4	114

56	CP-93,129, sumatriptan, dihydroergotamine block c-fos expression within rat trigeminal nucleus caudalis caused by chemical stimulation of the meninges. <i>British Journal of Pharmacology</i> , 1992 , 106, 409-15	8.6	105
55	L-arginine dilates rat pial arterioles by nitric oxide-dependent mechanisms and increases blood flow during focal cerebral ischaemia. <i>British Journal of Pharmacology</i> , 1992 , 107, 905-7	8.6	100
54	The NMDA receptor antagonist MK-801 reduces capsaicin-induced c-fos expression within rat trigeminal nucleus caudalis. <i>Pain</i> , 1998 , 76, 239-48	8	89
53	Primary afferent neurons innervating guinea pig dura. <i>Journal of Neurophysiology</i> , 1997 , 77, 299-308	3.2	86
52	Further characterization of the putative 5-HT receptor which mediates blockade of neurogenic plasma extravasation in rat dura mater. <i>British Journal of Pharmacology</i> , 1991 , 103, 1421-8	8.6	85
51	Pathophysiology of headache--past and present. <i>Headache</i> , 2007 , 47 Suppl 1, S58-63	4.2	82
50	New insights into migraine pathophysiology. <i>Current Opinion in Neurology</i> , 2006 , 19, 294-8	7.1	82
49	Temporal correlation mapping analysis of the hemodynamic penumbra in mutant mice deficient in endothelial nitric oxide synthase gene expression. <i>Stroke</i> , 1996 , 27, 1381-5	6.7	82
48	The pathophysiology of migraine: year 2005. <i>Journal of Headache and Pain</i> , 2005 , 6, 105-11	8.8	73
47	The impact of anesthetics and hyperoxia on cortical spreading depression. <i>Experimental Neurology</i> , 2008 , 212, 201-6	5.7	72
46	Both 5-HT1B and 5-HT1F receptors modulate c-fos expression within rat trigeminal nucleus caudalis. <i>European Journal of Pharmacology</i> , 1999 , 369, 271-7	5.3	65
45	Attenuation by valproate of c-fos immunoreactivity in trigeminal nucleus caudalis induced by intracisternal capsaicin. <i>British Journal of Pharmacology</i> , 1995 , 116, 3199-204	8.6	65
44	Inhibition of the P2X7-PANX1 complex suppresses spreading depolarization and neuroinflammation. <i>Brain</i> , 2017 , 140, 1643-1656	11.2	60
43	Non-NMDA glutamate receptors modulate capsaicin induced c-fos expression within trigeminal nucleus caudalis. <i>British Journal of Pharmacology</i> , 1999 , 127, 623-30	8.6	60
42	Synergistic protective effect of caspase inhibitors and bFGF against brain injury induced by transient focal ischaemia. <i>British Journal of Pharmacology</i> , 2001 , 133, 345-50	8.6	48
41	Protective effects of 5-iodo-6-amino-1,2-benzopyrone, an inhibitor of poly(ADP-ribose) synthetase against peroxynitrite-induced glial damage and stroke development. <i>European Journal of Pharmacology</i> , 1998 , 351, 377-82	5.3	44
40	Genes, proteases, cortical spreading depression and migraine: impact on pathophysiology and treatment. <i>Functional Neurology</i> , 2007 , 22, 133-6	2.2	41
39	Myeloperoxidase propagates damage and is a potential therapeutic target for subacute stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 485-93	7.3	40

38	The innate immune system after ischemic injury: lessons to be learned from the heart and brain. <i>JAMA Neurology</i> , 2014 , 71, 233-6	17.2	39
37	Animal models of migraine headache and aura. <i>Current Opinion in Neurology</i> , 2008 , 21, 294-300	7.1	36
36	The dynamics of statins: from event prevention to neuroprotection. <i>Stroke</i> , 2006 , 37, 294-6	6.7	33
35	Mechanisms of NO neurotoxicity. <i>Progress in Brain Research</i> , 1998 , 118, 231-9	2.9	32
34	Myeloperoxidase Inhibition Increases Neurogenesis after Ischemic Stroke. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016 , 359, 262-272	4.7	31
33	Cortical spreading depression and estrogen. <i>Headache</i> , 2007 , 47 Suppl 2, S79-85	4.2	31
32	Lipid-sugar particles for intracranial drug delivery: safety and biocompatibility. <i>Brain Research</i> , 2002 , 946, 206-13	3.7	30
31	Trigeminal origin of beta-preprotachykinin products in feline pial blood vessels. <i>Neuroscience Letters</i> , 1987 , 76, 69-73	3.3	27
30	Brain protection: maybe yes, maybe no. <i>Stroke</i> , 2010 , 41, S85-6	6.7	26
29	Extra-Axial Inflammatory Signal in Parameninges in Migraine with Visual Aura. <i>Annals of Neurology</i> , 2020 , 87, 939-949	9.4	24
28	Controlled release of horseradish peroxidase from polymers: a method to improve histochemical localization and sensitivity. <i>Brain Research</i> , 1981 , 212, 460-5	3.7	23
27	Cortical Spreading Depression: A Model for Understanding Migraine Biology and Future Drug Targets. <i>Headache Currents: A Journal for Recent Advances in Headache and Facial Pain</i> , 2005 , 2, 97-103		22
26	Remote ischemic preconditioning: making the brain more tolerant, safely and inexpensively. <i>Circulation</i> , 2011 , 123, 709-11	16.7	19
25	Can cortical spreading depression activate central trigeminovascular neurons without peripheral input? Pitfalls of a new concept. <i>Cephalalgia</i> , 2012 , 32, 509-11	6.1	19
24	Advances in stroke neuroprotection: hyperoxia and beyond. <i>Neuroimaging Clinics of North America</i> , 2005 , 15, 697-720, xii-xiii	3	19
23	Reducing myeloperoxidase activity decreases inflammation and increases cellular protection in ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 1864-1877	7.3	15
22	Microembolism of single cortical arterioles can induce spreading depression and ischemic injury; a potential trigger for migraine and related MRI lesions. <i>Brain Research</i> , 2018 , 1679, 84-90	3.7	15
21	Acute sleep deprivation enhances susceptibility to the migraine substrate cortical spreading depolarization. <i>Journal of Headache and Pain</i> , 2020 , 21, 86	8.8	12

20	Migraine general aspects. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2010</i> , 97, 253-66	3	10
19	Caffeine does not affect susceptibility to cortical spreading depolarization in mice. <i>Journal of Cerebral Blood Flow and Metabolism, 2019</i> , 39, 740-750	7.3	8
18	The 2006 Thomas Willis lecture: the adventures of a translational researcher in stroke and migraine. <i>Stroke, 2007</i> , 38, 1645-51	6.7	7
17	GR43175, a 5-HT ₁ -Like Agonist, Blocks Neurogenic Plasma Protein Extravasation in Dura Mater. <i>Cephalalgia, 1989</i> , 9, 27-28	6.1	7
16	The Neurobiology of Migraine and Transformation of Headache Therapy 2005 , 107-ii		6
15	Cerebrospinal fluid can exit into the skull bone marrow and instruct cranial hematopoiesis in mice with bacterial meningitis.. <i>Nature Neuroscience, 2022</i> ,	25.5	4
14	Ischemic Stroke: Basic Pathophysiology and Neuroprotective Strategies 2011 , 1-24		3
13	Cerebrospinal fluid outflow through skull channels instructs cranial hematopoiesis		3
12	The Neurovascular Unit and Responses to Ischemia 2016 , 90-101		2
11	Apoptosis in Cerebral Ischemia 2004 , 855-866		2
10	Making headway - a role for CGRP in post-traumatic headache. <i>Nature Reviews Neurology, 2021</i> , 17, 133-134		2
9	Shared biological foundations of post-traumatic headache and migraine. <i>Headache, 2021</i> , 61, 558-559	4.2	2
8	Animal Models of Migraine Aura 2017 , 321-345		1
7	Tools for High-Resolution in vivo Imaging of Cellular and Molecular Mechanisms in Cortical Spreading Depression and Spreading Depolarization 2017 , 307-320		
6	Physiology of the Meningeal Sensory Pathway 2017 , 31-47		
5	Apoptosis and Related Mechanisms in Cerebral Ischemia 2011 , 107-121		
4	Ischemic Stroke: Basic Pathophysiology and Neuroprotective Strategies 2006 , 1-26		
3	Neurogenesis and Apoptotic Cell Death 2006 , 71-79		

2 Studying mechanisms of cell death: from apoptosis to necrosis. *FASEB Journal*, **2007**, 21, A38

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1 The Neurovascular Unit and Responses to Ischemia **2022**, 82-91.e4