Michael A Moskowitz

List of Publications by Year in Descending Order

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	The Neurovascular Unit and Responses to Ischemia **2022**, 82-91.e4		
108	Cerebrospinal fluid can exit into the skull bone marrow and instruct cranial hematopoiesis in mice with bacterial meningitis.. *Nature Neuroscience*, **2022**,	25.5	4
107	Making headway - a role for CGRP in post-traumatic headache. *Nature Reviews Neurology*, **2021**, 17, 133-134	39	2
106	Shared biological foundations of post-traumatic headache and migraine. *Headache*, **2021**, 61, 558-559	4.2	2
105	Extra-Axial Inflammatory Signal in Parameninges in Migraine with Visual Aura. *Annals of Neurology*, **2020**, 87, 939-949	9.4	24
104	Acute sleep deprivation enhances susceptibility to the migraine substrate cortical spreading depolarization. *Journal of Headache and Pain*, **2020**, 21, 86	8.8	12
103	Migraine and the trigeminovascular system-40 years and counting. *Lancet Neurology, The*, **2019**, 18, 795-804	44.1	114
102	Caffeine does not affect susceptibility to cortical spreading depolarization in mice. *Journal of Cerebral Blood Flow and Metabolism*, **2019**, 39, 740-750	7.3	8
101	Reducing myeloperoxidase activity decreases inflammation and increases cellular protection in ischemic stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2019**, 39, 1864-1877	7.3	15
100	Direct vascular channels connect skull bone marrow and the brain surface enabling myeloid cell migration. *Nature Neuroscience*, **2018**, 21, 1209-1217	25.5	139
99	Microembolism of single cortical arterioles can induce spreading depression and ischemic injury; a potential trigger for migraine and related MRI lesions. *Brain Research*, **2018**, 1679, 84-90	3.7	15
98	Inhibition of the P2X7-PANX1 complex suppresses spreading depolarization and neuroinflammation. *Brain*, **2017**, 140, 1643-1656	11.2	60
97	Tools for High-Resolution in vivo Imaging of Cellular and Molecular Mechanisms in Cortical Spreading Depression and Spreading Depolarization **2017**, 307-320		
96	Animal Models of Migraine Aura **2017**, 321-345		1
95	Physiology of the Meningeal Sensory Pathway **2017**, 31-47		
94	Myeloperoxidase Inhibition Increases Neurogenesis after Ischemic Stroke. *Journal of Pharmacology and Experimental Therapeutics*, **2016**, 359, 262-272	4.7	31
93	The Neurovascular Unit and Responses to Ischemia **2016**, 90-101		2

92	Ischemic stroke activates hematopoietic bone marrow stem cells. *Circulation Research*, **2015**, 116, 407-17	15.7	126
91	Myeloperoxidase propagates damage and is a potential therapeutic target for subacute stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 485-93	7.3	40
90	Chaos and commotion in the wake of cortical spreading depression and spreading depolarizations. *Nature Reviews Neuroscience*, **2014**, 15, 379-93	13.5	226
89	The innate immune system after ischemic injury: lessons to be learned from the heart and brain. *JAMA Neurology*, **2014**, 71, 233-6	17.2	39
88	Pathophysiology of migraine. *Annual Review of Physiology*, **2013**, 75, 365-91	23.1	415
87	Can cortical spreading depression activate central trigeminovascular neurons without peripheral input? Pitfalls of a new concept. *Cephalalgia*, **2012**, 32, 509-11	6.1	19
86	Migraine mutations increase stroke vulnerability by facilitating ischemic depolarizations. *Circulation* , **2012**, 125, 335-45	16.7	123
85	Rapid monocyte kinetics in acute myocardial infarction are sustained by extramedullary monocytopoiesis. *Journal of Experimental Medicine*, **2012**, 209, 123-37	16.6	342
84	Ischemic Stroke: Basic Pathophysiology and Neuroprotective Strategies **2011**, 1-24		3
83	Apoptosis and Related Mechanisms in Cerebral Ischemia **2011**, 107-121		
82	Remote ischemic preconditioning: making the brain more tolerant, safely and inexpensively. *Circulation*, **2011**, 123, 709-11	16.7	19
81	Brain protection: maybe yes, maybe no. *Stroke*, **2010**, 41, S85-6	6.7	26
80	Migraine general aspects. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2010** , 97, 253-66	3	10
79	The science of stroke: mechanisms in search of treatments. *Neuron*, **2010**, 67, 181-98	13.9	1329
78	Migraine aura pathophysiology: the role of blood vessels and microembolisation. *Lancet Neurology, The*, **2010**, 9, 309-17	24.1	126
77	Microemboli may link spreading depression, migraine aura, and patent foramen ovale. *Annals of Neurology*, **2010**, 67, 221-9	9.4	210
76	Genetic and hormonal factors modulate spreading depression and transient hemiparesis in mouse models of familial hemiplegic migraine type 1. *Journal of Clinical Investigation*, **2009**, 119, 99-109	15.9	187
75	Early release of HMGB-1 from neurons after the onset of brain ischemia. *Journal of Cerebral Blood Flow and Metabolism*, **2008**, 28, 927-38	7.3	330

74	The impact of anesthetics and hyperoxia on cortical spreading depression. *Experimental Neurology*, **2008**, 212, 201-6	5.7	72
73	Adiponectin prevents cerebral ischemic injury through endothelial nitric oxide synthase dependent mechanisms. *Circulation*, **2008**, 117, 216-23	16.7	182
72	Animal models of migraine headache and aura. *Current Opinion in Neurology*, **2008**, 21, 294-300	7.1	36
71	Pathophysiology of headache--past and present. *Headache*, **2007**, 47 Suppl 1, S58-63	4.2	82
70	Cortical spreading depression and estrogen. *Headache*, **2007**, 47 Suppl 2, S79-85	4.2	31
69	The 2006 Thomas Willis lecture: the adventures of a translational researcher in stroke and migraine. *Stroke*, **2007**, 38, 1645-51	6.7	7
68	Studying mechanisms of cell death: from apoptosis to necrosis. *FASEB Journal*, **2007**, 21, A38	0.9	
67	Genes, proteases, cortical spreading depression and migraine: impact on pathophysiology and treatment. *Functional Neurology*, **2007**, 22, 133-6	2.2	41
66	Suppression of cortical spreading depression in migraine prophylaxis. *Annals of Neurology*, **2006**, 59, 652-61	9.4	440
65	Ischemic Stroke: Basic Pathophysiology and Neuroprotective Strategies **2006**, 1-26		
64	The dynamics of statins: from event prevention to neuroprotection. *Stroke*, **2006**, 37, 294-6	6.7	33
63	New insights into migraine pathophysiology. *Current Opinion in Neurology*, **2006**, 19, 294-8	7.1	82
62	Vasoconstrictive neurovascular coupling during focal ischemic depolarizations. *Journal of Cerebral Blood Flow and Metabolism*, **2006**, 26, 1018-30	7.3	251
61	Neurogenesis and Apoptotic Cell Death **2006**, 71-79		
60	Inhibition of Rho kinase (ROCK) leads to increased cerebral blood flow and stroke protection. *Stroke*, **2005**, 36, 2251-7	6.7	308
59	Advances in stroke neuroprotection: hyperoxia and beyond. *Neuroimaging Clinics of North America*, **2005**, 15, 697-720, xii-xiii	3	19
58	Cyclophilin D is a component of mitochondrial permeability transition and mediates neuronal cell death after focal cerebral ischemia. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 12005-10	11.5	671
57	Chemical inhibitor of nonapoptotic cell death with therapeutic potential for ischemic brain injury. *Nature Chemical Biology*, **2005**, 1, 112-9	11.7	1874

56	Cortical Spreading Depression: A Model for Understanding Migraine Biology and Future Drug Targets. *Headache Currents: A Journal for Recent Advances in Headache and Facial Pain*, **2005**, 2, 97-103		22
55	The pathophysiology of migraine: year 2005. *Journal of Headache and Pain*, **2005**, 6, 105-11	8.8	73
54	The Neurobiology of Migraine and Transformation of Headache Therapy **2005**, 107-ii		6
53	Migraine as an inflammatory disorder. *Neurology*, **2005**, 64, S9-15	6.5	219
52	Nuclear translocation of apoptosis-inducing factor after focal cerebral ischemia. *Journal of Cerebral Blood Flow and Metabolism*, **2004**, 24, 458-66	7.3	154
51	Laser speckle flowmetry for the study of cerebrovascular physiology in normal and ischemic mouse cortex. *Journal of Cerebral Blood Flow and Metabolism*, **2004**, 24, 744-55	7.3	225
50	Deciphering migraine mechanisms: clues from familial hemiplegic migraine genotypes. *Annals of Neurology*, **2004**, 55, 276-80	9.4	185
49	Cortical spreading depression activates and upregulates MMP-9. *Journal of Clinical Investigation*, **2004**, 113, 1447-1455	15.9	332
48	Apoptosis in Cerebral Ischemia **2004**, 855-866		2
47	Poly(ADP-ribose) polymerase-1 activity promotes NF-kappaB-driven transcription and microglial activation: implication for neurodegenerative disorders. *Journal of Neurochemistry*, **2003**, 85, 306-17	6	199
46	Mechanisms, challenges and opportunities in stroke. *Nature Reviews Neuroscience*, **2003**, 4, 399-415	13.5	1363
45	Lipid-sugar particles for intracranial drug delivery: safety and biocompatibility. *Brain Research*, **2002** , 946, 206-13	3.7	30
44	Nuclear factor-kappaB as a molecular target for migraine therapy. *Annals of Neurology*, **2002**, 51, 507-16	9.4	138
43	Intrinsic brain activity triggers trigeminal meningeal afferents in a migraine model. *Nature Medicine*, **2002**, 8, 136-42	50.5	909
42	Caspase activation and neuroprotection in caspase-3- deficient mice after in vivo cerebral ischemia and in vitro oxygen glucose deprivation. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 15188-93	11.5	265
41	Cell biology. PARP-1--a perpetrator of apoptotic cell death?. *Science*, **2002**, 297, 200-1	33.3	129
40	Synergistic protective effect of caspase inhibitors and bFGF against brain injury induced by transient focal ischaemia. *British Journal of Pharmacology*, **2001**, 133, 345-50	8.6	48
39	Mevastatin, an HMG-CoA reductase inhibitor, reduces stroke damage and upregulates endothelial nitric oxide synthase in mice. *Stroke*, **2001**, 32, 980-6	6.7	283

38	Neuroprotection mediated by changes in the endothelial actin cytoskeleton. *Journal of Clinical Investigation*, **2000**, 106, 15-24	15.9	219
37	Non-NMDA glutamate receptors modulate capsaicin induced c-fos expression within trigeminal nucleus caudalis. *British Journal of Pharmacology*, **1999**, 127, 623-30	8.6	60
36	Both 5-HT1B and 5-HT1F receptors modulate c-fos expression within rat trigeminal nucleus caudalis. *European Journal of Pharmacology*, **1999**, 369, 271-7	5.3	65
35	Pathobiology of ischaemic stroke: an integrated view. *Trends in Neurosciences*, **1999**, 22, 391-7	13.3	3094
34	Synergistic effects of caspase inhibitors and MK-801 in brain injury after transient focal cerebral ischaemia in mice. *British Journal of Pharmacology*, **1998**, 124, 756-62	8.6	135
33	Attenuation of delayed neuronal death after mild focal ischemia in mice by inhibition of the caspase family. *Journal of Cerebral Blood Flow and Metabolism*, **1998**, 18, 238-47	7.3	502
32	Prolonged therapeutic window for ischemic brain damage caused by delayed caspase activation. *Journal of Cerebral Blood Flow and Metabolism*, **1998**, 18, 1071-6	7.3	187
31	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. *European Journal of Pharmacology*, **1998**, 351, 377-82	5.3	44
30	Perfusion-weighted imaging defects during spontaneous migrainous aura. *Annals of Neurology*, **1998**, 43, 25-31	9.4	267
29	The NMDA receptor antagonist MK-801 reduces capsaicin-induced c-fos expression within rat trigeminal nucleus caudalis. *Pain*, **1998**, 76, 239-48	8	89
28	Mechanisms of NO neurotoxicity. *Progress in Brain Research*, **1998**, 118, 231-9	2.9	32
27	Activation and cleavage of caspase-3 in apoptosis induced by experimental cerebral ischemia. *Journal of Neuroscience*, **1998**, 18, 3659-68	6.6	745
26	Primary afferent neurons innervating guinea pig dura. *Journal of Neurophysiology*, **1997**, 77, 299-308	3.2	86
25	Mechanisms of reduced striatal NMDA excitotoxicity in type I nitric oxide synthase knock-out mice. *Journal of Neuroscience*, **1997**, 17, 6908-17	6.6	175
24	Attenuation of transient focal cerebral ischemic injury in transgenic mice expressing a mutant ICE inhibitory protein. *Journal of Cerebral Blood Flow and Metabolism*, **1997**, 17, 370-5	7.3	219
23	Ischemic brain injury is mediated by the activation of poly(ADP-ribose)polymerase. *Journal of Cerebral Blood Flow and Metabolism*, **1997**, 17, 1143-51	7.3	561
22	Reduced brain edema and infarction volume in mice lacking the neuronal isoform of nitric oxide synthase after transient MCA occlusion. *Journal of Cerebral Blood Flow and Metabolism*, **1996**, 16, 605-11	7.3	372
21	Enlarged infarcts in endothelial nitric oxide synthase knockout mice are attenuated by nitro-L-arginine. *Journal of Cerebral Blood Flow and Metabolism*, **1996**, 16, 981-7	7.3	628

20	Temporal correlation mapping analysis of the hemodynamic penumbra in mutant mice deficient in endothelial nitric oxide synthase gene expression. *Stroke*, **1996**, 27, 1381-5	6.7	82
19	Hypertension in mice lacking the gene for endothelial nitric oxide synthase. *Nature*, **1995**, 377, 239-42	50.4	1753
18	Attenuation by valproate of c-fos immunoreactivity in trigeminal nucleus caudalis induced by intracisternal capsaicin. *British Journal of Pharmacology*, **1995**, 116, 3199-204	8.6	65
17	The complex role of nitric oxide in the pathophysiology of focal cerebral ischemia. *Brain Pathology*, **1994**, 4, 49-57	6	140
16	Pretreatment with intraventricular basic fibroblast growth factor decreases infarct size following focal cerebral ischemia in rats. *Annals of Neurology*, **1994**, 35, 451-7	9.4	146
15	The NOS inhibitor, 7-nitroindazole, decreases focal infarct volume but not the response to topical acetylcholine in pial vessels. *Journal of Cerebral Blood Flow and Metabolism*, **1994**, 14, 924-9	7.3	273
14	Nitric oxide synthase inhibition and cerebrovascular regulation. *Journal of Cerebral Blood Flow and Metabolism*, **1994**, 14, 175-92	7.3	597
13	L-arginine dilates rat pial arterioles by nitric oxide-dependent mechanisms and increases blood flow during focal cerebral ischaemia. *British Journal of Pharmacology*, **1992**, 107, 905-7	8.6	100
12	CP-93,129, sumatriptan, dihydroergotamine block c-fos expression within rat trigeminal nucleus caudalis caused by chemical stimulation of the meninges. *British Journal of Pharmacology*, **1992**, 106, 409-15	8.6	105
11	Evidence for 5-HT1B/1D receptors mediating the antimigraine effect of sumatriptan and dihydroergotamine. *Cephalalgia*, **1991**, 11, 165-8	6.1	133
10	Further characterization of the putative 5-HT receptor which mediates blockade of neurogenic plasma extravasation in rat dura mater. *British Journal of Pharmacology*, **1991**, 103, 1421-8	8.6	85
9	GR43175, a 5-HT1-Like Agonist, Blocks Neurogenic Plasma Protein Extravasation in Dura Mater. *Cephalalgia*, **1989**, 9, 27-28	6.1	7
8	Cluster headache: evidence for a pathophysiologic focus in the superior pericarotid cavernous sinus plexus. *Headache*, **1988**, 28, 584-6	4.2	117
7	Ergot alkaloids block neurogenic extravasation in dura mater: proposed action in vascular headaches. *Annals of Neurology*, **1988**, 24, 732-7	9.4	154
6	Trigeminal origin of beta-preprotachykinin products in feline pial blood vessels. *Neuroscience Letters*, **1987**, 76, 69-73	3.3	27
5	Trigeminal projections to supratentorial pial and dural blood vessels in cats demonstrated by horseradish peroxidase histochemistry. *Journal of Comparative Neurology*, **1984**, 223, 46-56	3.4	302
4	The neurobiology of vascular head pain. *Annals of Neurology*, **1984**, 16, 157-68	9.4	769
3	Immunohistochemical evidence for a substance P-containing trigeminovascular pathway to pial arteries in cats. *Brain Research*, **1983**, 268, 162-6	3.7	155

2	Controlled release of horseradish peroxidase from polymers: a method to improve histochemical localization and sensitivity. *Brain Research*, **1981**, 212, 460-5	3.7	23
1	Cerebrospinal fluid outflow through skull channels instructs cranial hematopoiesis		3