

Cenk Ayata

List of Publications by Year in descending order

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Version: 2024-02-01

166
papers

11,770
citations

26630

56
h-index

30922

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all docs

169
docs citations

169
times ranked

11767
citing authors

#	ARTICLE	IF	CITATIONS
1	Enlarged Infarcts in Endothelial Nitric Oxide Synthase Knockout Mice are Attenuated by Nitro-L-Arginine. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 981-987.	4.3	692
2	Suppression of cortical spreading depression in migraine prophylaxis. Annals of Neurology, 2006, 59, 652-661.	5.3	508
3	Spreading Depression, Spreading Depolarizations, and the Cerebral Vasculature. Physiological Reviews, 2015, 95, 953-993.	28.8	421
4	A Computerized Algorithm for Etiologic Classification of Ischemic Stroke. Stroke, 2007, 38, 2979-2984.	2.0	396
5	Emerging concepts in sporadic cerebral amyloid angiopathy. Brain, 2017, 140, 1829-1850.	7.6	333
6	Migraine pathophysiology: lessons from mouse models and human genetics. Lancet Neurology, The, 2015, 14, 65-80.	10.2	313
7	The continuum of spreading depolarizations in acute cortical lesion development: Examining Leão's legacy. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1571-1594.	4.3	297
8	Nutrient-sensitized screening for drugs that shift energy metabolism from mitochondrial respiration to glycolysis. Nature Biotechnology, 2010, 28, 249-255.	17.5	290
9	Vasoconstrictive Neurovascular Coupling during Focal Ischemic Depolarizations. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 1018-1030.	4.3	286
10	Laser Speckle Flowmetry for the Study of Cerebrovascular Physiology in Normal and Ischemic Mouse Cortex. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 744-755.	4.3	261
11	Recording, analysis, and interpretation of spreading depolarizations in neurointensive care: Review and recommendations of the COSBID research group. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1595-1625.	4.3	255
12	Ischaemic brain oedema. Journal of Clinical Neuroscience, 2002, 9, 113-124.	1.5	247
13	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.	8.2	215
14	Timing of neurologic deterioration in massive middle cerebral artery infarction: A multicenter review. Critical Care Medicine, 2003, 31, 272-277.	0.9	192
15	Mechanisms of Reduced Striatal NMDA Excitotoxicity in Type I Nitric Oxide Synthase Knock-Out Mice. Journal of Neuroscience, 1997, 17, 6908-6917.	3.6	187
16	Cortical Spreading Depression Triggers Migraine Attack: Pro. Headache, 2010, 50, 725-730.	3.9	178
17	Pronounced Hypoperfusion during Spreading Depression in Mouse Cortex. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 1172-1182.	4.3	165
18	Age-dependent cerebrovascular dysfunction in a transgenic mouse model of cerebral amyloid angiopathy. Brain, 2007, 130, 2310-2319.	7.6	164

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19	Spreading Depression and Neurovascular Coupling. <i>Stroke</i> , 2013, 44, S87-9.	2.0	158
20	Cerebrovascular lesions induce transient A β -amyloid deposition. <i>Brain</i> , 2011, 134, 3697-3707.	7.6	156
21	Supply-Demand Mismatch Transients in Susceptible Peri-infarct Hot Zones Explain the Origins of Spreading Injury Depolarizations. <i>Neuron</i> , 2015, 85, 1117-1131.	8.1	154
22	Migraine. <i>Nature Reviews Disease Primers</i> , 2022, 8, 2.	30.5	154
23	Normobaric hyperoxia improves cerebral blood flow and oxygenation, and inhibits peri-infarct depolarizations in experimental focal ischaemia. <i>Brain</i> , 2007, 130, 1631-1642.	7.6	153
24	Migraine Mutations Increase Stroke Vulnerability by Facilitating Ischemic Depolarizations. <i>Circulation</i> , 2012, 125, 335-345.	1.6	148
25	The phosphorylation state of eNOS modulates vascular reactivity and outcome of cerebral ischemia in vivo. <i>Journal of Clinical Investigation</i> , 2007, 117, 1961-1967.	8.2	143
26	A Randomized, Double-Blind, Placebo-Controlled Pilot Study of Simvastatin in Aneurysmal Subarachnoid Hemorrhage. <i>Stroke</i> , 2008, 39, 2891-2893.	2.0	131
27	Vagus nerve stimulation inhibits cortical spreading depression. <i>Pain</i> , 2016, 157, 797-805.	4.2	128
28	Mild Induced Hypertension Improves Blood Flow and Oxygen Metabolism in Transient Focal Cerebral Ischemia. <i>Stroke</i> , 2008, 39, 1548-1555.	2.0	126
29	Cognitive dysfunction and migraine. <i>Journal of Headache and Pain</i> , 2018, 19, 109.	6.0	120
30	Enhanced Subcortical Spreading Depression in Familial Hemiplegic Migraine Type 1 Mutant Mice. <i>Journal of Neuroscience</i> , 2011, 31, 5755-5763.	3.6	119
31	Translational Stroke Research. <i>Stroke</i> , 2017, 48, 2632-2637.	2.0	108
32	Rho-Kinase Inhibition Acutely Augments Blood Flow in Focal Cerebral Ischemia via Endothelial Mechanisms. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 998-1009.	4.3	106
33	Hypomorphic Notch 3 alleles link Notch signaling to ischemic cerebral small-vessel disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E128-35.	7.1	106
34	The Sirtuin-2 Inhibitor AK7 Is Neuroprotective in Models of Parkinson's Disease but Not Amyotrophic Lateral Sclerosis and Cerebral Ischemia. <i>PLoS ONE</i> , 2015, 10, e0116919.	2.5	106
35	Selective ROCK2 inhibition in focal cerebral ischemia. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 2-14.	3.7	104
36	Continuous electroencephalography predicts delayed cerebral ischemia after subarachnoid hemorrhage: A prospective study of diagnostic accuracy. <i>Annals of Neurology</i> , 2018, 83, 958-969.	5.3	102

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37	Androgenic suppression of spreading depression in familial hemiplegic migraine type 1 mutant mice. <i>Annals of Neurology</i> , 2009, 66, 564-568.	5.3	99
38	Inhibition of the P2X7/PANX1 complex suppresses spreading depolarization and neuroinflammation. <i>Brain</i> , 2017, 140, 1643-1656.	7.6	99
39	Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy syndrome mutations increase susceptibility to spreading depression. <i>Annals of Neurology</i> , 2011, 69, 413-418.	5.3	96
40	L-NA-Sensitive rCBF Augmentation during Vibrissal Stimulation in Type III Nitric Oxide Synthase Mutant Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 539-541.	4.3	95
41	Linking Notch signaling to ischemic stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4856-4861.	7.1	92
42	Age-Related Decline in Oligodendrogenesis Retards White Matter Repair in Mice. <i>Stroke</i> , 2013, 44, 2573-2578.	2.0	90
43	Cortical Spreading Depression and Migraine. <i>Current Neurology and Neuroscience Reports</i> , 2010, 10, 167-173.	4.2	87
44	Peripheral GABA _A receptor-mediated effects of sodium valproate on dural plasma protein extravasation to substance P and trigeminal stimulation. <i>British Journal of Pharmacology</i> , 1995, 116, 1661-1667.	5.4	84
45	Hypoxia and Hypotension Transform the Blood Flow Response to Cortical Spreading Depression from Hyperemia into Hypoperfusion in the Rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1369-1376.	4.3	82
46	The impact of anesthetics and hyperoxia on cortical spreading depression. <i>Experimental Neurology</i> , 2008, 212, 201-206.	4.1	82
47	Spreading depolarizations trigger caveolin-1-dependent endothelial transcytosis. <i>Annals of Neurology</i> , 2018, 84, 409-423.	5.3	76
48	Calabadion. <i>Anesthesiology</i> , 2013, 119, 317-325.	2.5	74
49	Multiparametric, Longitudinal Optical Coherence Tomography Imaging Reveals Acute Injury and Chronic Recovery in Experimental Ischemic Stroke. <i>PLoS ONE</i> , 2013, 8, e71478.	2.5	73
50	Comparative Effectiveness of Calabadion and Sugammadex to Reverse Non-depolarizing Neuromuscular-blocking Agents. <i>Anesthesiology</i> , 2015, 123, 1337-1349.	2.5	71
51	Optical coherence tomography for the quantitative study of cerebrovascular physiology. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1339-1345.	4.3	70
52	Migraine and stroke: In search of shared mechanisms. <i>Cephalalgia</i> , 2015, 35, 165-181.	3.9	66
53	Anti-migraine Calcitonin Gene-Related Peptide Receptor Antagonists Worsen Cerebral Ischemic Outcome in Mice. <i>Annals of Neurology</i> , 2020, 88, 771-784.	5.3	64
54	Cortical Spreading Depression Impairs Oxygen Delivery and Metabolism in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 376-386.	4.3	63

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55	Fingolimod exerts neuroprotective effects in a mouse model of intracerebral hemorrhage. Brain Research, 2014, 1555, 89-96.	2.2	63
56	Pearls and pitfalls in experimental models of spreading depression. Cephalalgia, 2013, 33, 604-613.	3.9	58
57	Perfusion Pressure-Dependent Recovery of Cortical Spreading Depression is Independent of Tissue Oxygenation over a Wide Physiologic Range. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1168-1177.	4.3	57
58	CADASIL. Stroke, 2010, 41, S129-34.	2.0	57
59	Multifaceted roles for astrocytes in spreading depolarization: A target for limiting spreading depolarization in acute brain injury?. Glia, 2016, 64, 5-20.	4.9	56
60	Headache after ischemic stroke. Neurology, 2020, 94, e75-e86.	1.1	56
61	Non-invasively triggered spreading depolarizations induce a rapid pro-inflammatory response in cerebral cortex. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1117-1131.	4.3	53
62	Glucose Modulation of Spreading Depression Susceptibility. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 191-195.	4.3	52
63	Quantitative Imaging of Cerebral Blood Flow Velocity and Intracellular Motility using Dynamic Light Scattering—Optical Coherence Tomography. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 819-825.	4.3	51
64	Hyperlipidemia Disrupts Cerebrovascular Reflexes and Worsens Ischemic Perfusion Defect. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 954-962.	4.3	49
65	Anesthesia in Experimental Stroke Research. Translational Stroke Research, 2016, 7, 358-367.	4.2	49
66	Translational MR Neuroimaging of Stroke and Recovery. Translational Stroke Research, 2017, 8, 22-32.	4.2	47
67	Pathophysiology of Lacunar Stroke: History's Mysteries and Modern Interpretations. Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 2079-2097.	1.6	45
68	Mapping optogenetically-driven single-vessel fMRI with concurrent neuronal calcium recordings in the rat hippocampus. Nature Communications, 2019, 10, 5239.	12.8	44
69	Optogenetic Spreading Depression Elicits Trigeminal Pain and Anxiety Behavior. Annals of Neurology, 2021, 89, 99-110.	5.3	44
70	Cerebral Amyloid Angiopathy—Related Transient Focal Neurologic Episodes. Neurology, 2021, 97, 231-238.	1.1	44
71	Achieving Normothermia in Patients With Febrile Subarachnoid Hemorrhage: Feasibility and Safety of a Novel Intravascular Cooling Catheter. Neurocritical Care, 2004, 1, 145-156.	2.4	41
72	Which Spreading Depolarizations Are Deleterious To Brain Tissue?. Neurocritical Care, 2020, 32, 317-322.	2.4	40

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73	Spreading depression and the clinical correlates of migraine. Reviews in the Neurosciences, 2013, 24, 353-63.	2.9	39
74	Abnormal synaptic Ca^{2+} homeostasis and morphology in cortical neurons of familial hemiplegic migraine type 1 mutant mice. Annals of Neurology, 2015, 78, 193-210.	5.3	39
75	Recognition Memory Impairments After Subcortical White Matter Stroke in Mice. Stroke, 2014, 45, 1468-1473.	2.0	38
76	Aag-initiated base excision repair promotes ischemia reperfusion injury in liver, brain, and kidney. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4878-86.	7.1	38
77	Migraine Prophylaxis, Ischemic Depolarizations, and Stroke Outcomes in Mice. Stroke, 2015, 46, 229-236.	2.0	38
78	Vagus nerve stimulation inhibits cortical spreading depression exclusively through central mechanisms. Pain, 2020, 161, 1661-1669.	4.2	37
79	Vasculitis of the Spinal Cord. Archives of Neurology, 2003, 60, 1791.	4.5	36
80	High-resolution in vivo optical imaging of stroke injury and repair. Brain Research, 2015, 1623, 174-192.	2.2	36
81	What Should a Clinician Do When Spreading Depolarizations are Observed in a Patient?. Neurocritical Care, 2020, 32, 306-310.	2.4	36
82	Spreading depression as an innate antiseizure mechanism. Nature Communications, 2021, 12, 2206.	12.8	36
83	The Critical Role of Spreading Depolarizations in Early Brain Injury: Consensus and Contention. Neurocritical Care, 2022, 37, 83-101.	2.4	36
84	Determinants of Optogenetic Cortical Spreading Depolarizations. Cerebral Cortex, 2019, 29, 1150-1161.	2.9	35
85	Gabapentin Suppresses Cortical Spreading Depression Susceptibility. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1588-1592.	4.3	34
86	Sensitivity to acute cerebral ischemic injury in migraineurs. Neurology, 2015, 85, 1945-1949.	1.1	34
87	Migraine Mutations Impair Hippocampal Learning Despite Enhanced Long-Term Potentiation. Journal of Neuroscience, 2015, 35, 3397-3402.	3.6	34
88	Cortical Spreading Depression Denotes Concussion Injury. Journal of Neurotrauma, 2019, 36, 1008-1017.	3.4	34
89	Decreased Microvascular Cerebral Blood Flow Assessed by Diffuse Correlation Spectroscopy after Repetitive Concussions in Mice. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1995-2000.	4.3	33
90	The Role of Endothelin in the Pathophysiology of Migraine—a Systematic Review. Current Pain and Headache Reports, 2018, 22, 27.	2.9	32

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91	Differential effects of anesthetics on resting state functional connectivity in the mouse. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 875-884.	4.3	32
92	Chronic daily cortical spreading depressions suppress spreading depression susceptibility. Cephalalgia, 2011, 31, 1601-1608.	3.9	31
93	Real-time non-invasive in vivo visible light detection of cortical spreading depolarizations in mice. Journal of Neuroscience Methods, 2018, 309, 143-146.	2.5	30
94	Cortical spreading depression confounds concentration-dependent pial arteriolar dilation during N-methyl-d-aspartate superfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1837-H1841.	3.2	29
95	Pharmacological targeting of spreading depression in migraine. Expert Review of Neurotherapeutics, 2012, 12, 297-306.	2.8	29
96	Delayed Cerebral Ischemia After Subarachnoid Hemorrhage: Experimental-Clinical Disconnect and the Unmet Need. Neurocritical Care, 2020, 32, 238-251.	2.4	29
97	Micro-Heterogeneity of Flow in a Mouse Model of Chronic Cerebral Hypoperfusion Revealed by Longitudinal Doppler Optical Coherence Tomography and Angiography. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1552-1560.	4.3	28
98	Stress hormone corticosterone enhances susceptibility to cortical spreading depression in familial hemiplegic migraine type 1 mutant mice. Experimental Neurology, 2015, 263, 214-220.	4.1	27
99	Spreading Depression in Primary and Secondary Headache Disorders. Current Pain and Headache Reports, 2016, 20, 44.	2.9	27
100	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.	0.7	25
101	Phase III Preclinical Trials in Translational Stroke Research: Community Response on Framework and Guidelines. Translational Stroke Research, 2016, 7, 241-247.	4.2	25
102	Soluble Guanylate Cyclase $\hat{1}\hat{1}\hat{2}\hat{1}$ Limits Stroke Size and Attenuates Neurological Injury. Stroke, 2010, 41, 1815-1819.	2.0	24
103	Rho-Kinase Inhibition Improves Ischemic Perfusion Deficit in Hyperlipidemic Mice. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 284-287.	4.3	24
104	Requisite ischemia for spreading depolarization occurrence after subarachnoid hemorrhage in rodents. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1829-1840.	4.3	24
105	Effects of Cerebral Ischemia on N -Methyl- d -Aspartate and Dihydropyridine-Sensitive Calcium Currents. Stroke, 1996, 27, 127-133.	2.0	23
106	Two-photon microscopy of cortical NADH fluorescence intensity changes: correcting contamination from the hemodynamic response. Journal of Biomedical Optics, 2011, 16, 106003.	2.6	21
107	Endothelial Dysfunction Abrogates the Efficacy of Normobaric Hyperoxia in Stroke. Journal of Neuroscience, 2014, 34, 15200-15207.	3.6	21
108	Cerebrovascular effects of endothelin-1 investigated using high-resolution magnetic resonance imaging in healthy volunteers. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1685-1694.	4.3	21

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109	Lasting Pure-Motor Deficits after Focal Posterior Internal Capsule White-Matter Infarcts in Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 977-984.	4.3	18
110	Sustained Functional Improvement by Hepatocyte Growth Factor-Like Small Molecule BB3 after Focal Cerebral Ischemia in Rats and Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1044-1053.	4.3	18
111	Novel Therapeutic Targets Against Spreading Depression. <i>Headache</i> , 2017, 57, 1340-1358.	3.9	18
112	Enriched Environment Elicits Proangiogenic Mechanisms After Focal Cerebral Ischemia. <i>Translational Stroke Research</i> , 2019, 10, 150-159.	4.2	18
113	Acute sleep deprivation enhances susceptibility to the migraine substrate cortical spreading depolarization. <i>Journal of Headache and Pain</i> , 2020, 21, 86.	6.0	18
114	Subarachnoid hemorrhage leads to early and persistent functional connectivity and behavioral changes in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 975-985.	4.3	18
115	Questioning Glutamate Excitotoxicity in Acute Brain Damage: The Importance of Spreading Depolarization. <i>Neurocritical Care</i> , 2022, 37, 11-30.	2.4	18
116	High-flow oxygen therapy for treatment of acute migraine: A randomized crossover trial. <i>Cephalalgia</i> , 2017, 37, 730-736.	3.9	17
117	Aspirin Prophylaxis for Migraine with Aura: An Observational Case Series. <i>European Neurology</i> , 2017, 78, 287-289.	1.4	17
118	Neurovascular coupling during optogenetic functional activation: Local and remote stimulus-response characteristics, and uncoupling by spreading depression. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 808-822.	4.3	17
119	Oxcarbazepine does not suppress cortical spreading depression. <i>Cephalalgia</i> , 2011, 31, 537-542.	3.9	16
120	Genetic Animal Models of Cerebral Vasculopathies. <i>Progress in Molecular Biology and Translational Science</i> , 2012, 105, 25-55.	1.7	16
121	Concussive Injury before or after Controlled Cortical Impact Exacerbates Histopathology and Functional Outcome in a Mixed Traumatic Brain Injury Model in Mice. <i>Journal of Neurotrauma</i> , 2013, 30, 382-391.	3.4	16
122	Challenges and Controversies in Translational Stroke Research— an Introduction. <i>Translational Stroke Research</i> , 2016, 7, 355-357.	4.2	16
123	Intravenous Endothelin-1 Infusion Does Not Induce Aura or Headache in Migraine Patients With Aura. <i>Headache</i> , 2020, 60, 724-734.	3.9	16
124	Late-Onset Thermal Hypersensitivity after Focal Ischemic Thalamic Infarcts as a Model for Central Post-Stroke Pain in Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1100-1103.	4.3	15
125	Early Activation of Phosphatidylinositol 3-Kinase after Ischemic Stroke Reduces Infarct Volume and Improves Long-Term Behavior. <i>Molecular Neurobiology</i> , 2017, 54, 5375-5384.	4.0	15
126	An Overhauled Enhanced fMRI platform for dynamic free radical imaging <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2018, 31, e3896.	2.8	15

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127	Efficacy profile of noninvasive vagus nerve stimulation on cortical spreading depression susceptibility and the tissue response in a rat model. <i>Journal of Headache and Pain</i> , 2022, 23, 12.	6.0	14
128	Monitoring cellular edema at single-neuron level by electrical resistance measurements. <i>Journal of Neuroscience Methods</i> , 1997, 72, 175-181.	2.5	13
129	The Cerebral Metabolic Consequences of Nitric Oxide Synthase Deficiency: Glucose Utilization in Endothelial and Neuronal Nitric Oxide Synthase Null Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 144-148.	4.3	13
130	Intracranial pressure spikes trigger spreading depolarizations. <i>Brain</i> , 2022, 145, 194-207.	7.6	13
131	Gabapentin reduces infarct volume but does not suppress peri-infarct depolarizations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1578-1582.	4.3	12
132	Relief Following Chronic Stress Augments Spreading Depolarization Susceptibility in Familial Hemiplegic Migraine Mice. <i>Neuroscience</i> , 2019, 415, 1-9.	2.3	12
133	Noninvasive Vagus Nerve Stimulation Prevents Ruptures and Improves Outcomes in a Model of Intracranial Aneurysm in Mice. <i>Stroke</i> , 2019, 50, 1216-1223.	2.0	12
134	Secondary Bleeding During Acute Experimental Intracerebral Hemorrhage. <i>Stroke</i> , 2019, 50, 1210-1215.	2.0	11
135	Preclinical Phase III Trials in Translational Stroke Research. <i>Stroke</i> , 2014, 45, 357-357.	2.0	10
136	Uncovering the Rosetta Stone: Report from the First Annual Conference on Key Elements in Translating Stroke Therapeutics from Pre-Clinical to Clinical. <i>Translational Stroke Research</i> , 2018, 9, 258-266.	4.2	10
137	Rho-kinase inhibitors do not expand hematoma volume in acute experimental intracerebral hemorrhage. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 769-776.	3.7	10
138	Caffeine does not affect susceptibility to cortical spreading depolarization in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 740-750.	4.3	10
139	Sex and Genetic Background Effects on the Outcome of Experimental Intracranial Aneurysms. <i>Stroke</i> , 2020, 51, 3083-3094.	2.0	10
140	Different Effects of Normobaric Oxygen in Normotensive Versus Hypertensive Rats After Focal Cerebral Ischemia. <i>Stroke</i> , 2018, 49, 1534-1537.	2.0	9
141	cGMP-dependent protein kinase I in vascular smooth muscle cells improves ischemic stroke outcome in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2379-2391.	4.3	8
142	Posterior reversible encephalopathy syndrome in stroke-prone spontaneously hypertensive rats on high-salt diet. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1232-1246.	4.3	8
143	First-Order Mathematical Modeling of Brain Swelling in Focal Cerebral Ischemia. <i>Translational Stroke Research</i> , 2010, 1, 65-70.	4.2	7
144	Etomidate and Ketamine: Residual Motor and Adrenal Dysfunction that Persist beyond Recovery from Loss of Righting Reflex in Rats. <i>Pharmaceuticals</i> , 2015, 8, 21-37.	3.8	7

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145	Peri-Infarct Hot-Zones Have Higher Susceptibility to Optogenetic Functional Activation-Induced Spreading Depolarizations. <i>Stroke</i> , 2020, 51, 2526-2535.	2.0	7
146	Migraine susceptibility is modulated by food triggers and analgesic overuse via sulfotransferase inhibition. <i>Journal of Headache and Pain</i> , 2022, 23, 36.	6.0	7
147	Endovascular thrombectomy and post-procedural headache. <i>Journal of Headache and Pain</i> , 2017, 18, 10.	6.0	6
148	Monitoring anoxic depolarization at the bedside: A step closer to the 24th century. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1123-1124.	4.3	6
149	Therapeutic implications of cortical spreading depression models in migraine. <i>Progress in Brain Research</i> , 2020, 255, 29-67.	1.4	6
150	Rapid hematoma growth triggers spreading depolarizations in experimental intracortical hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 1264-1276.	4.3	6
151	Imaging PEG-Like Nanoprobes in Tumor, Transient Ischemia, and Inflammatory Disease Models. <i>Bioconjugate Chemistry</i> , 2015, 26, 1061-1069.	3.6	5
152	Treasure hunt in a minefield “ exploring migraine with GWAS. <i>Nature Reviews Neurology</i> , 2016, 12, 496-498.	10.1	5
153	Cortical Spreading Depolarizations in a Mouse Model of Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2022, 37, 123-132.	2.4	5
154	CADASIL mutations sensitize the brain to ischemia via spreading depolarizations and abnormal extracellular potassium homeostasis. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	5
155	Optical coherence tomography of arteriolar diameter and capillary perfusion during spreading depolarizations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2256-2263.	4.3	4
156	Fleeting footprints: finding MRI biomarkers of transient ischaemic attack. <i>Brain</i> , 2017, 140, 8-10.	7.6	3
157	Intravascular Endothelin-1 does not trigger or increase susceptibility to Spreading Depolarizations. <i>Journal of Headache and Pain</i> , 2020, 21, 127.	6.0	2
158	ACHIEVING NORMOTHERMIA IN FEBRILE SUBARACHNOID HEMORRHAGE PATIENTS: FEASIBILITY AND SAFETY OF A NOVEL INTRAVASCULAR COOLING CATHETER. <i>Critical Care Medicine</i> , 2002, 30, A5.	0.9	1
159	Calabadion. <i>Survey of Anesthesiology</i> , 2014, 58, 47.	0.1	1
160	Neurovascular origin of primary headaches. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 571-572.	4.3	1
161	Focal Subcortical White Matter Lesions Disrupt Resting State Cortical Interhemispheric Functional Connectivity in Mice. <i>Cerebral Cortex</i> , 2021, 31, 4958-4969.	2.9	1
162	Rho-Kinase Inhibition Improves the Outcome of Focal Subcortical White Matter Lesions. <i>Stroke</i> , 2022, 53, 2369-2376.	2.0	1

#	ARTICLE	IF	CITATIONS
163	Response to Letter by Liebeskind. Stroke, 2008, 39, .	2.0	0
164	Functional changes of vascular responses in familial hemiplegic migraine type 1. FASEB Journal, 2011, 25, .	0.5	0
165	Large Arteriolar Component of Oxygen Delivery Implies Safe Margin of Oxygen Supply to Cerebral Tissue. FASEB Journal, 2015, 29, 794.1.	0.5	0
166	Intensive care management of specific stroke treatment. Advances in Neurology, 2003, 92, 361-77.	0.8	0