

# Cenk Ayata

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4140789/cenk-ayata-publications-by-citations.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

158  
papers

9,076  
citations

52  
h-index

91  
g-index

169  
ext. papers

10,471  
ext. citations

7.7  
avg, IF

6.24  
L-index

#	Paper	IF	Citations
158	Enlarged infarcts in endothelial nitric oxide synthase knockout mice are attenuated by nitro-L-arginine. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1996</b> , 16, 981-7	7.3	628
157	Suppression of cortical spreading depression in migraine prophylaxis. <i>Annals of Neurology</i> , <b>2006</b> , 59, 652-61	6.1	440
156	A computerized algorithm for etiologic classification of ischemic stroke: the Causative Classification of Stroke System. <i>Stroke</i> , <b>2007</b> , 38, 2979-84	6.7	328
155	Spreading Depression, Spreading Depolarizations, and the Cerebral Vasculature. <i>Physiological Reviews</i> , <b>2015</b> , 95, 953-93	47.9	291
154	Vasoconstrictive neurovascular coupling during focal ischemic depolarizations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2006</b> , 26, 1018-30	7.3	251
153	Migraine pathophysiology: lessons from mouse models and human genetics. <i>Lancet Neurology</i> , <b>2015</b> , 14, 65-80	24.1	243
152	Nutrient-sensitized screening for drugs that shift energy metabolism from mitochondrial respiration to glycolysis. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 249-55	44.5	234
151	Laser speckle flowmetry for the study of cerebrovascular physiology in normal and ischemic mouse cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2004</b> , 24, 744-55	7.3	225
150	Ischaemic brain oedema. <i>Journal of Clinical Neuroscience</i> , <b>2002</b> , 9, 113-24	2.2	221
149	Emerging concepts in sporadic cerebral amyloid angiopathy. <i>Brain</i> , <b>2017</b> , 140, 1829-1850	11.2	213
148	The continuum of spreading depolarizations in acute cortical lesion development: Examining Leibk legacy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 1571-1594	7.3	205
147	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> , <b>2009</b> , 119, 99-109	15.9	187
146	Mechanisms of reduced striatal NMDA excitotoxicity in type I nitric oxide synthase knock-out mice. <i>Journal of Neuroscience</i> , <b>1997</b> , 17, 6908-17	6.6	175
145	Recording, analysis, and interpretation of spreading depolarizations in neurointensive care: Review and recommendations of the COSBID research group. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 1595-1625	7.3	173
144	Cortical spreading depression triggers migraine attack: pro. <i>Headache</i> , <b>2010</b> , 50, 725-30	4.2	153
143	Timing of neurologic deterioration in massive middle cerebral artery infarction: a multicenter review. <i>Critical Care Medicine</i> , <b>2003</b> , 31, 272-7	1.4	149
142	Age-dependent cerebrovascular dysfunction in a transgenic mouse model of cerebral amyloid angiopathy. <i>Brain</i> , <b>2007</b> , 130, 2310-9	11.2	146

141	Pronounced hypoperfusion during spreading depression in mouse cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2004</b> , 24, 1172-82	7.3	144
140	Normobaric hyperoxia improves cerebral blood flow and oxygenation, and inhibits peri-infarct depolarizations in experimental focal ischaemia. <i>Brain</i> , <b>2007</b> , 130, 1631-42	11.2	137
139	Spreading depression and neurovascular coupling. <i>Stroke</i> , <b>2013</b> , 44, S87-9	6.7	135
138	Cerebrovascular lesions induce transient $\beta$ -amyloid deposition. <i>Brain</i> , <b>2011</b> , 134, 3697-707	11.2	134
137	The phosphorylation state of eNOS modulates vascular reactivity and outcome of cerebral ischemia in vivo. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 1961-7	15.9	125
136	Migraine mutations increase stroke vulnerability by facilitating ischemic depolarizations. <i>Circulation</i> , <b>2012</b> , 125, 335-45	16.7	123
135	Supply-demand mismatch transients in susceptible peri-infarct hot zones explain the origins of spreading injury depolarizations. <i>Neuron</i> , <b>2015</b> , 85, 1117-31	13.9	120
134	Mild induced hypertension improves blood flow and oxygen metabolism in transient focal cerebral ischemia. <i>Stroke</i> , <b>2008</b> , 39, 1548-55	6.7	114
133	A randomized, double-blind, placebo-controlled pilot study of simvastatin in aneurysmal subarachnoid hemorrhage. <i>Stroke</i> , <b>2008</b> , 39, 2891-3	6.7	106
132	Enhanced subcortical spreading depression in familial hemiplegic migraine type 1 mutant mice. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 5755-63	6.6	96
131	Rho-kinase inhibition acutely augments blood flow in focal cerebral ischemia via endothelial mechanisms. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2007</b> , 27, 998-1009	7.3	94
130	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> , <b>2011</b> , 108, E128-35	11.5	93
129	Vagus nerve stimulation inhibits cortical spreading depression. <i>Pain</i> , <b>2016</b> , 157, 797-805	8	92
128	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> , <b>1996</b> , 16, 539-41	7.3	89
127	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> , <b>2015</b> , 10, e0116919	3.7	82
126	Androgenic suppression of spreading depression in familial hemiplegic migraine type 1 mutant mice. <i>Annals of Neurology</i> , <b>2009</b> , 66, 564-8	9.4	79
125	Age-related decline in oligodendrogenesis retards white matter repair in mice. <i>Stroke</i> , <b>2013</b> , 44, 2573-8	6.7	78
124	Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy syndrome mutations increase susceptibility to spreading depression. <i>Annals of Neurology</i> , <b>2011</b> , 69, 413-8	8.4	78

123	Selective ROCK2 Inhibition In Focal Cerebral Ischemia. <i>Annals of Clinical and Translational Neurology</i> , <b>2014</b> , 1, 2-14	5.3	76
122	Linking Notch signaling to ischemic stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 4856-61	11.5	76
121	Cortical spreading depression and migraine. <i>Current Neurology and Neuroscience Reports</i> , <b>2010</b> , 10, 167-73	7.8	75
120	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> , <b>2008</b> , 28, 1369-76	7.3	75
119	The impact of anesthetics and hyperoxia on cortical spreading depression. <i>Experimental Neurology</i> , <b>2008</b> , 212, 201-6	5.7	72
118	Peripheral GABAA receptor-mediated effects of sodium valproate on dural plasma protein extravasation to substance P and trigeminal stimulation. <i>British Journal of Pharmacology</i> , <b>1995</b> , 116, 1661-7	8.6	66
117	Cognitive dysfunction and migraine. <i>Journal of Headache and Pain</i> , <b>2018</b> , 19, 109	8.8	65
116	Translational Stroke Research: Vision and Opportunities. <i>Stroke</i> , <b>2017</b> , 48, 2632-2637	6.7	62
115	Calabadiion: A new agent to reverse the effects of benzylisoquinoline and steroidal neuromuscular-blocking agents. <i>Anesthesiology</i> , <b>2013</b> , 119, 317-25	4.3	62
114	Inhibition of the P2X7-PANX1 complex suppresses spreading depolarization and neuroinflammation. <i>Brain</i> , <b>2017</b> , 140, 1643-1656	11.2	60
113	Multiparametric, longitudinal optical coherence tomography imaging reveals acute injury and chronic recovery in experimental ischemic stroke. <i>PLoS ONE</i> , <b>2013</b> , 8, e71478	3.7	59
112	Comparative Effectiveness of Calabadiion and Sugammadex to Reverse Non-depolarizing Neuromuscular-blocking Agents. <i>Anesthesiology</i> , <b>2015</b> , 123, 1337-49	4.3	58
111	Optical coherence tomography for the quantitative study of cerebrovascular physiology. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 1339-45	7.3	57
110	Continuous electroencephalography predicts delayed cerebral ischemia after subarachnoid hemorrhage: A prospective study of diagnostic accuracy. <i>Annals of Neurology</i> , <b>2018</b> , 83, 958-969	9.4	55
109	Migraine and stroke: in search of shared mechanisms. <i>Cephalalgia</i> , <b>2015</b> , 35, 165-81	6.1	54
108	CADASIL: experimental insights from animal models. <i>Stroke</i> , <b>2010</b> , 41, S129-34	6.7	53
107	Cortical spreading depression impairs oxygen delivery and metabolism in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2012</b> , 32, 376-86	7.3	53
106	Fingolimod exerts neuroprotective effects in a mouse model of intracerebral hemorrhage. <i>Brain Research</i> , <b>2014</b> , 1555, 89-96	3.7	51

105	Perfusion pressure-dependent recovery of cortical spreading depression is independent of tissue oxygenation over a wide physiologic range. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2010</b> , 30, 1168-77	7.3	49
104	Pearls and pitfalls in experimental models of spreading depression. <i>Cephalalgia</i> , <b>2013</b> , 33, 604-13	6.1	48
103	Spreading depolarizations trigger caveolin-1-dependent endothelial transcytosis. <i>Annals of Neurology</i> , <b>2018</b> , 84, 409-423	9.4	44
102	Multifaceted roles for astrocytes in spreading depolarization: A target for limiting spreading depolarization in acute brain injury?. <i>Glia</i> , <b>2016</b> , 64, 5-20	9	41
101	Glucose modulation of spreading depression susceptibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2013</b> , 33, 191-5	7.3	40
100	Quantitative imaging of cerebral blood flow velocity and intracellular motility using dynamic light scattering-optical coherence tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2013</b> , 33, 819-25	7.3	39
99	Achieving normothermia in patients with febrile subarachnoid hemorrhage: feasibility and safety of a novel intravascular cooling catheter. <i>Neurocritical Care</i> , <b>2004</b> , 1, 145-56	3.3	37
98	Anti-migraine Calcitonin Gene-Related Peptide Receptor Antagonists Worsen Cerebral Ischemic Outcome in Mice. <i>Annals of Neurology</i> , <b>2020</b> , 88, 771-784	9.4	34
97	Hyperlipidemia disrupts cerebrovascular reflexes and worsens ischemic perfusion defect. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2013</b> , 33, 954-62	7.3	34
96	Aag-initiated base excision repair promotes ischemia reperfusion injury in liver, brain, and kidney. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E4878-86	11.5	33
95	Vasculitis of the spinal cord. <i>Archives of Neurology</i> , <b>2003</b> , 60, 1791-4		33
94	Spreading depression and the clinical correlates of migraine. <i>Reviews in the Neurosciences</i> , <b>2013</b> , 24, 353-63	7.3	32
93	Anesthesia in Experimental Stroke Research. <i>Translational Stroke Research</i> , <b>2016</b> , 7, 358-67	7.8	31
92	Abnormal synaptic Ca(2+) homeostasis and morphology in cortical neurons of familial hemiplegic migraine type 1 mutant mice. <i>Annals of Neurology</i> , <b>2015</b> , 78, 193-210	9.4	31
91	Recognition memory impairments after subcortical white matter stroke in mice. <i>Stroke</i> , <b>2014</b> , 45, 1468-73	7.3	31
90	Non-invasively triggered spreading depolarizations induce a rapid pro-inflammatory response in cerebral cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2020</b> , 40, 1117-1131	7.3	30
89	Migraine prophylaxis, ischemic depolarizations, and stroke outcomes in mice. <i>Stroke</i> , <b>2015</b> , 46, 229-36	6.7	29
88	Gabapentin suppresses cortical spreading depression susceptibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2010</b> , 30, 1588-92	7.3	29

87	Migraine mutations impair hippocampal learning despite enhanced long-term potentiation. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 3397-402	6.6	27
86	Decreased microvascular cerebral blood flow assessed by diffuse correlation spectroscopy after repetitive concussions in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 1995-2000	7.3	27
85	Sensitivity to acute cerebral ischemic injury in migraineurs: A retrospective case-control study. <i>Neurology</i> , <b>2015</b> , 85, 1945-9	6.5	27
84	Cortical spreading depression confounds concentration-dependent pial arteriolar dilation during N-methyl-D-aspartate superfusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2006</b> , 290, H1837-41	5.2	27
83	High-resolution in vivo optical imaging of stroke injury and repair. <i>Brain Research</i> , <b>2015</b> , 1623, 174-92	3.7	26
82	Translational MR Neuroimaging of Stroke and Recovery. <i>Translational Stroke Research</i> , <b>2017</b> , 8, 22-32	7.8	26
81	Pathophysiology of Lacunar Stroke: History's Mysteries and Modern Interpretations. <i>Journal of Stroke and Cerebrovascular Diseases</i> , <b>2019</b> , 28, 2079-2097	2.8	25
80	The Role of Endothelin in the Pathophysiology of Migraine-a Systematic Review. <i>Current Pain and Headache Reports</i> , <b>2018</b> , 22, 27	4.2	25
79	Chronic daily cortical spreading depressions suppress spreading depression susceptibility. <i>Cephalalgia</i> , <b>2011</b> , 31, 1601-8	6.1	25
78	Pharmacological targeting of spreading depression in migraine. <i>Expert Review of Neurotherapeutics</i> , <b>2012</b> , 12, 297-306	4.3	25
77	Which Spreading Depolarizations Are Deleterious To Brain Tissue?. <i>Neurocritical Care</i> , <b>2020</b> , 32, 317-322	3.3	25
76	Determinants of Optogenetic Cortical Spreading Depolarizations. <i>Cerebral Cortex</i> , <b>2019</b> , 29, 1150-1161	5.1	24
75	Real-time non-invasive in vivo visible light detection of cortical spreading depolarizations in mice. <i>Journal of Neuroscience Methods</i> , <b>2018</b> , 309, 143-146	3	24
74	Mapping optogenetically-driven single-vessel fMRI with concurrent neuronal calcium recordings in the rat hippocampus. <i>Nature Communications</i> , <b>2019</b> , 10, 5239	17.4	23
73	Micro-heterogeneity of flow in a mouse model of chronic cerebral hypoperfusion revealed by longitudinal Doppler optical coherence tomography and angiography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 1552-60	7.3	22
72	Stress hormone corticosterone enhances susceptibility to cortical spreading depression in familial hemiplegic migraine type 1 mutant mice. <i>Experimental Neurology</i> , <b>2015</b> , 263, 214-20	5.7	22
71	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> , <b>2005</b> , 2, 97-103		22
70	Effects of cerebral ischemia on N-methyl-D-aspartate and dihydropyridine-sensitive calcium currents. An electrophysiological study in the rat hippocampus in situ. <i>Stroke</i> , <b>1996</b> , 27, 127-33	6.7	22

69	Headache after ischemic stroke: A systematic review and meta-analysis. <i>Neurology</i> , <b>2020</b> , 94, e75-e86	6.5	22
68	Requisite ischemia for spreading depolarization occurrence after subarachnoid hemorrhage in rodents. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 1829-1840	7.3	21
67	Spreading Depression in Primary and Secondary Headache Disorders. <i>Current Pain and Headache Reports</i> , <b>2016</b> , 20, 44	4.2	21
66	Cortical Spreading Depression Denotes Concussion Injury. <i>Journal of Neurotrauma</i> , <b>2019</b> , 36, 1008-1017	5.4	20
65	Soluble guanylate cyclase alpha1beta1 limits stroke size and attenuates neurological injury. <i>Stroke</i> , <b>2010</b> , 41, 1815-9	6.7	20
64	Delayed Cerebral Ischemia After Subarachnoid Hemorrhage: Experimental-Clinical Disconnect and the Unmet Need. <i>Neurocritical Care</i> , <b>2020</b> , 32, 238-251	3.3	20
63	Vagus nerve stimulation inhibits cortical spreading depression exclusively through central mechanisms. <i>Pain</i> , <b>2020</b> , 161, 1661-1669	8	19
62	Phase III Preclinical Trials in Translational Stroke Research: Community Response on Framework and Guidelines. <i>Translational Stroke Research</i> , <b>2016</b> , 7, 241-7	7.8	19
61	Rho-kinase inhibition improves ischemic perfusion deficit in hyperlipidemic mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2014</b> , 34, 284-7	7.3	19
60	Two-photon microscopy of cortical NADH fluorescence intensity changes: correcting contamination from the hemodynamic response. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 106003	3.5	19
59	Optogenetic Spreading Depression Elicits Trigeminal Pain and Anxiety Behavior. <i>Annals of Neurology</i> , <b>2021</b> , 89, 99-110	9.4	19
58	Endothelial dysfunction abrogates the efficacy of normobaric hyperoxia in stroke. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 15200-7	6.6	17
57	Differential effects of anesthetics on resting state functional connectivity in the mouse. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2020</b> , 40, 875-884	7.3	17
56	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> , <b>2013</b> , 30, 382-91	5.4	16
55	Migraine.. <i>Nature Reviews Disease Primers</i> , <b>2022</b> , 8, 2	51.1	16
54	What Should a Clinician Do When Spreading Depolarizations are Observed in a Patient?. <i>Neurocritical Care</i> , <b>2020</b> , 32, 306-310	3.3	16
53	High-flow oxygen therapy for treatment of acute migraine: A randomized crossover trial. <i>Cephalalgia</i> , <b>2017</b> , 37, 730-736	6.1	15
52	Oxcarbazepine does not suppress cortical spreading depression. <i>Cephalalgia</i> , <b>2011</b> , 31, 537-42	6.1	15

51	Early Activation of Phosphatidylinositol 3-Kinase after Ischemic Stroke Reduces Infarct Volume and Improves Long-Term Behavior. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 5375-5384	6.2	14
50	Lasting pure-motor deficits after focal posterior internal capsule white-matter infarcts in rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 977-84	7.3	14
49	Genetic animal models of cerebral vasculopathies. <i>Progress in Molecular Biology and Translational Science</i> , <b>2012</b> , 105, 25-55	4	13
48	Spreading depression as an innate antiseizure mechanism. <i>Nature Communications</i> , <b>2021</b> , 12, 2206	17.4	13
47	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> , <b>2015</b> , 35, 1044-53	7.3	12
46	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> , <b>2015</b> , 35, 1100-3	7.3	12
45	Acute sleep deprivation enhances susceptibility to the migraine substrate cortical spreading depolarization. <i>Journal of Headache and Pain</i> , <b>2020</b> , 21, 86	8.8	12
44	Novel Therapeutic Targets Against Spreading Depression. <i>Headache</i> , <b>2017</b> , 57, 1340-1358	4.2	12
43	Monitoring cellular edema at single-neuron level by electrical resistance measurements. <i>Journal of Neuroscience Methods</i> , <b>1997</b> , 72, 175-81	3	12
42	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> , <b>1999</b> , 19, 144-8	7.3	12
41	Aspirin Prophylaxis for Migraine with Aura: An Observational Case Series. <i>European Neurology</i> , <b>2017</b> , 78, 287-289	2.1	11
40	An Overhauser-enhanced-MRI platform for dynamic free radical imaging in vivo. <i>NMR in Biomedicine</i> , <b>2018</b> , 31, e3896	4.4	10
39	Gabapentin reduces infarct volume but does not suppress peri-infarct depolarizations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 1578-82	7.3	10
38	Intravenous Endothelin-1 Infusion Does Not Induce Aura or Headache in Migraine Patients With Aura. <i>Headache</i> , <b>2020</b> , 60, 724-734	4.2	10
37	Preclinical phase III trials in translational stroke research: call for collective design of framework and guidelines. <i>Stroke</i> , <b>2014</b> , 45, 357	6.7	9
36	Enriched Environment Elicits Proangiogenic Mechanisms After Focal Cerebral Ischemia. <i>Translational Stroke Research</i> , <b>2019</b> , 10, 150-159	7.8	9
35	Cerebrovascular effects of endothelin-1 investigated using high-resolution magnetic resonance imaging in healthy volunteers. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2020</b> , 40, 1685-1694	7.3	9
34	Secondary Bleeding During Acute Experimental Intracerebral Hemorrhage. <i>Stroke</i> , <b>2019</b> , 50, 1210-1215	6.7	8



33	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> , <b>2018</b> , 9, 258-266	7.8	8
32	Different Effects of Normobaric Oxygen in Normotensive Versus Hypertensive Rats After Focal Cerebral Ischemia. <i>Stroke</i> , <b>2018</b> , 49, 1534-1537	6.7	8
31	Caffeine does not affect susceptibility to cortical spreading depolarization in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2019</b> , 39, 740-750	7.3	8
30	Noninvasive Vagus Nerve Stimulation Prevents Ruptures and Improves Outcomes in a Model of Intracranial Aneurysm in Mice. <i>Stroke</i> , <b>2019</b> , 50, 1216-1223	6.7	7
29	Relief Following Chronic Stress Augments Spreading Depolarization Susceptibility in Familial Hemiplegic Migraine Mice. <i>Neuroscience</i> , <b>2019</b> , 415, 1-9	3.9	7
28	First-order mathematical modeling of brain swelling in focal cerebral ischemia. <i>Translational Stroke Research</i> , <b>2010</b> , 1, 65-70	7.8	7
27	Peri-Infarct Hot-Zones Have Higher Susceptibility to Optogenetic Functional Activation-Induced Spreading Depolarizations. <i>Stroke</i> , <b>2020</b> , 51, 2526-2535	6.7	7
26	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> , <b>2020</b> , 40, 808-822	7.3	7
25	Etomidate and Ketamine: Residual Motor and Adrenal Dysfunction that Persist beyond Recovery from Loss of Righting Reflex in Rats. <i>Pharmaceuticals</i> , <b>2014</b> , 8, 21-37	5.2	6
24	Cerebral Amyloid Angiopathy-Related Transient Focal Neurologic Episodes. <i>Neurology</i> , <b>2021</b> , 97, 231-238	6.5	6
23	Posterior reversible encephalopathy syndrome in stroke-prone spontaneously hypertensive rats on high-salt diet. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2019</b> , 39, 1232-1246	7.3	6
22	Subarachnoid hemorrhage leads to early and persistent functional connectivity and behavioral changes in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2021</b> , 41, 975-985	7.3	6
21	Imaging PEG-like nanoprobe in tumor, transient ischemia, and inflammatory disease models. <i>Bioconjugate Chemistry</i> , <b>2015</b> , 26, 1061-9	6.3	5
20	Rho-kinase inhibitors do not expand hematoma volume in acute experimental intracerebral hemorrhage. <i>Annals of Clinical and Translational Neurology</i> , <b>2018</b> , 5, 769-776	5.3	5
19	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> , <b>2019</b> , 39, 2379-2391	7.3	4
18	Therapeutic implications of cortical spreading depression models in migraine. <i>Progress in Brain Research</i> , <b>2020</b> , 255, 29-67	2.9	4
17	Sex and Genetic Background Effects on the Outcome of Experimental Intracranial Aneurysms. <i>Stroke</i> , <b>2020</b> , 51, 3083-3094	6.7	4
16	Monitoring anoxic depolarization at the bedside: A step closer to the 24th century. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2018</b> , 38, 1123-1124	7.3	4

15	Intracranial pressure spikes trigger spreading depolarizations. <i>Brain</i> , <b>2021</b> ,	11.2	3
14	Rapid hematoma growth triggers spreading depolarizations in experimental intracortical hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2021</b> , 41, 1264-1276	7.3	3
13	Endovascular thrombectomy and post-procedural headache. <i>Journal of Headache and Pain</i> , <b>2017</b> , 18, 10	8.8	2
12	The Critical Role of Spreading Depolarizations in Early Brain Injury: Consensus and Contention.. <i>Neurocritical Care</i> , <b>2022</b> , 1	3.3	2
11	Questioning Glutamate Excitotoxicity in Acute Brain Damage: The Importance of Spreading Depolarization.. <i>Neurocritical Care</i> , <b>2022</b> , 1	3.3	2
10	Animal Models of Migraine Aura <b>2017</b> , 321-345		1
9	Fleeting footprints: finding MRI biomarkers of transient ischaemic attack. <i>Brain</i> , <b>2017</b> , 140, 8-10	11.2	1
8	Intravascular Endothelin-1 does not trigger or increase susceptibility to Spreading Depolarizations. <i>Journal of Headache and Pain</i> , <b>2020</b> , 21, 127	8.8	1
7	Optical coherence tomography of arteriolar diameter and capillary perfusion during spreading depolarizations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2021</b> , 41, 2256-2263	7.3	1
6	Migraine susceptibility is modulated by food triggers and analgesic overuse via sulfotransferase inhibition.. <i>Journal of Headache and Pain</i> , <b>2022</b> , 23, 36	8.8	1
5	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> , <b>2022</b> , 23, 12	8.8	0
4	Cortical Spreading Depolarizations in a Mouse Model of Subarachnoid Hemorrhage.. <i>Neurocritical Care</i> , <b>2022</b> , 1	3.3	0
3	Focal Subcortical White Matter Lesions Disrupt Resting State Cortical Interhemispheric Functional Connectivity in Mice. <i>Cerebral Cortex</i> , <b>2021</b> , 31, 4958-4969	5.1	0
2	Large Arteriolar Component of Oxygen Delivery Implies Safe Margin of Oxygen Supply to Cerebral Tissue. <i>FASEB Journal</i> , <b>2015</b> , 29, 794.1	0.9	
1	Intensive care management of specific stroke treatment. <i>Advances in Neurology</i> , <b>2003</b> , 92, 361-77		