

Cenk Ayata

List of Publications by Year in descending order

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Version: 2024-02-01

166
papers

11,770
citations

26567

56
h-index

30848

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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. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 981-987.	2.4	692
2	Suppression of cortical spreading depression in migraine prophylaxis. <i>Annals of Neurology</i> , 2006, 59, 652-661.	2.8	508
3	Spreading Depression, Spreading Depolarizations, and the Cerebral Vasculature. <i>Physiological Reviews</i> , 2015, 95, 953-993.	13.1	421
4	A Computerized Algorithm for Etiologic Classification of Ischemic Stroke. <i>Stroke</i> , 2007, 38, 2979-2984.	1.0	396
5	Emerging concepts in sporadic cerebral amyloid angiopathy. <i>Brain</i> , 2017, 140, 1829-1850.	3.7	333
6	Migraine pathophysiology: lessons from mouse models and human genetics. <i>Lancet Neurology</i> , The, 2015, 14, 65-80.	4.9	313
7	The continuum of spreading depolarizations in acute cortical lesion development: Examining Leu ¹ 's legacy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1571-1594.	2.4	297
8	Nutrient-sensitized screening for drugs that shift energy metabolism from mitochondrial respiration to glycolysis. <i>Nature Biotechnology</i> , 2010, 28, 249-255.	9.4	290
9	Vasoconstrictive Neurovascular Coupling during Focal Ischemic Depolarizations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 1018-1030.	2.4	286
10	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, 744-755.	2.4	261
11	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> , 2017, 37, 1595-1625.	2.4	255
12	Ischaemic brain oedema. <i>Journal of Clinical Neuroscience</i> , 2002, 9, 113-124.	0.8	247
13	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.	3.9	215
14	Timing of neurologic deterioration in massive middle cerebral artery infarction: A multicenter review. <i>Critical Care Medicine</i> , 2003, 31, 272-277.	0.4	192
15	Mechanisms of Reduced Striatal NMDA Excitotoxicity in Type I Nitric Oxide Synthase Knock-Out Mice. <i>Journal of Neuroscience</i> , 1997, 17, 6908-6917.	1.7	187
16	Cortical Spreading Depression Triggers Migraine Attack: Pro. <i>Headache</i> , 2010, 50, 725-730.	1.8	178
17	Pronounced Hypoperfusion during Spreading Depression in Mouse Cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 1172-1182.	2.4	165
18	Age-dependent cerebrovascular dysfunction in a transgenic mouse model of cerebral amyloid angiopathy. <i>Brain</i> , 2007, 130, 2310-2319.	3.7	164

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19	Spreading Depression and Neurovascular Coupling. <i>Stroke</i> , 2013, 44, S87-9.	1.0	158
20	Cerebrovascular lesions induce transient A β -amyloid deposition. <i>Brain</i> , 2011, 134, 3697-3707.	3.7	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.	3.8	154
22	Migraine. <i>Nature Reviews Disease Primers</i> , 2022, 8, 2.	18.1	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.	3.7	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.	3.9	143
26	A Randomized, Double-Blind, Placebo-Controlled Pilot Study of Simvastatin in Aneurysmal Subarachnoid Hemorrhage. <i>Stroke</i> , 2008, 39, 2891-2893.	1.0	131
27	Vagus nerve stimulation inhibits cortical spreading depression. <i>Pain</i> , 2016, 157, 797-805.	2.0	128
28	Mild Induced Hypertension Improves Blood Flow and Oxygen Metabolism in Transient Focal Cerebral Ischemia. <i>Stroke</i> , 2008, 39, 1548-1555.	1.0	126
29	Cognitive dysfunction and migraine. <i>Journal of Headache and Pain</i> , 2018, 19, 109.	2.5	120
30	Enhanced Subcortical Spreading Depression in Familial Hemiplegic Migraine Type 1 Mutant Mice. <i>Journal of Neuroscience</i> , 2011, 31, 5755-5763.	1.7	119
31	Translational Stroke Research. <i>Stroke</i> , 2017, 48, 2632-2637.	1.0	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.	2.4	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.	3.3	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.	1.1	106
35	Selective ROCK2 inhibition in focal cerebral ischemia. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 2-14.	1.7	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.	2.8	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.	2.8	99
38	Inhibition of the P2X7/PANX1 complex suppresses spreading depolarization and neuroinflammation. <i>Brain</i> , 2017, 140, 1643-1656.	3.7	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.	2.8	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.	2.4	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.	3.3	92
42	Age-Related Decline in Oligodendrogenesis Retards White Matter Repair in Mice. <i>Stroke</i> , 2013, 44, 2573-2578.	1.0	90
43	Cortical Spreading Depression and Migraine. <i>Current Neurology and Neuroscience Reports</i> , 2010, 10, 167-173.	2.0	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.	2.7	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.	2.4	82
46	The impact of anesthetics and hyperoxia on cortical spreading depression. <i>Experimental Neurology</i> , 2008, 212, 201-206.	2.0	82
47	Spreading depolarizations trigger caveolin-1-dependent endothelial transcytosis. <i>Annals of Neurology</i> , 2018, 84, 409-423.	2.8	76
48	Calabadion. <i>Anesthesiology</i> , 2013, 119, 317-325.	1.3	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.	1.1	73
50	Comparative Effectiveness of Calabadion and Sugammadex to Reverse Non-depolarizing Neuromuscular-blocking Agents. <i>Anesthesiology</i> , 2015, 123, 1337-1349.	1.3	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.	2.4	70
52	Migraine and stroke: In search of shared mechanisms. <i>Cephalalgia</i> , 2015, 35, 165-181.	1.8	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.	2.8	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.	2.4	63

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55	Fingolimod exerts neuroprotective effects in a mouse model of intracerebral hemorrhage. <i>Brain Research</i> , 2014, 1555, 89-96.	1.1	63
56	Pearls and pitfalls in experimental models of spreading depression. <i>Cephalalgia</i> , 2013, 33, 604-613.	1.8	58
57	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> , 2010, 30, 1168-1177.	2.4	57
58	CADASIL. <i>Stroke</i> , 2010, 41, S129-34.	1.0	57
59	Multifaceted roles for astrocytes in spreading depolarization: A target for limiting spreading depolarization in acute brain injury?. <i>Glia</i> , 2016, 64, 5-20.	2.5	56
60	Headache after ischemic stroke. <i>Neurology</i> , 2020, 94, e75-e86.	1.5	56
61	Non-invasively triggered spreading depolarizations induce a rapid pro-inflammatory response in cerebral cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1117-1131.	2.4	53
62	Glucose Modulation of Spreading Depression Susceptibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 191-195.	2.4	52
63	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> , 2013, 33, 819-825.	2.4	51
64	Hyperlipidemia Disrupts Cerebrovascular Reflexes and Worsens Ischemic Perfusion Defect. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 954-962.	2.4	49
65	Anesthesia in Experimental Stroke Research. <i>Translational Stroke Research</i> , 2016, 7, 358-367.	2.3	49
66	Translational MR Neuroimaging of Stroke and Recovery. <i>Translational Stroke Research</i> , 2017, 8, 22-32.	2.3	47
67	Pathophysiology of Lacunar Stroke: History's Mysteries and Modern Interpretations. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019, 28, 2079-2097.	0.7	45
68	Mapping optogenetically-driven single-vessel fMRI with concurrent neuronal calcium recordings in the rat hippocampus. <i>Nature Communications</i> , 2019, 10, 5239.	5.8	44
69	Optogenetic Spreading Depression Elicits Trigeminal Pain and Anxiety Behavior. <i>Annals of Neurology</i> , 2021, 89, 99-110.	2.8	44
70	Cerebral Amyloid Angiopathy—Related Transient Focal Neurologic Episodes. <i>Neurology</i> , 2021, 97, 231-238.	1.5	44
71	Achieving Normothermia in Patients With Febrile Subarachnoid Hemorrhage: Feasibility and Safety of a Novel Intravascular Cooling Catheter. <i>Neurocritical Care</i> , 2004, 1, 145-156.	1.2	41
72	Which Spreading Depolarizations Are Deleterious To Brain Tissue?. <i>Neurocritical Care</i> , 2020, 32, 317-322.	1.2	40

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73	Spreading depression and the clinical correlates of migraine. <i>Reviews in the Neurosciences</i> , 2013, 24, 353-63.	1.4	39
74	Abnormal synaptic Ca^{2+} homeostasis and morphology in cortical neurons of familial hemiplegic migraine type 1 mutant mice. <i>Annals of Neurology</i> , 2015, 78, 193-210.	2.8	39
75	Recognition Memory Impairments After Subcortical White Matter Stroke in Mice. <i>Stroke</i> , 2014, 45, 1468-1473.	1.0	38
76	Agg-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> , 2014, 111, E4878-86.	3.3	38
77	Migraine Prophylaxis, Ischemic Depolarizations, and Stroke Outcomes in Mice. <i>Stroke</i> , 2015, 46, 229-236.	1.0	38
78	Vagus nerve stimulation inhibits cortical spreading depression exclusively through central mechanisms. <i>Pain</i> , 2020, 161, 1661-1669.	2.0	37
79	Vasculitis of the Spinal Cord. <i>Archives of Neurology</i> , 2003, 60, 1791.	4.9	36
80	High-resolution in vivo optical imaging of stroke injury and repair. <i>Brain Research</i> , 2015, 1623, 174-192.	1.1	36
81	What Should a Clinician Do When Spreading Depolarizations are Observed in a Patient?. <i>Neurocritical Care</i> , 2020, 32, 306-310.	1.2	36
82	Spreading depression as an innate antiseizure mechanism. <i>Nature Communications</i> , 2021, 12, 2206.	5.8	36
83	The Critical Role of Spreading Depolarizations in Early Brain Injury: Consensus and Contention. <i>Neurocritical Care</i> , 2022, 37, 83-101.	1.2	36
84	Determinants of Optogenetic Cortical Spreading Depolarizations. <i>Cerebral Cortex</i> , 2019, 29, 1150-1161.	1.6	35
85	Gabapentin Suppresses Cortical Spreading Depression Susceptibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1588-1592.	2.4	34
86	Sensitivity to acute cerebral ischemic injury in migraineurs. <i>Neurology</i> , 2015, 85, 1945-1949.	1.5	34
87	Migraine Mutations Impair Hippocampal Learning Despite Enhanced Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2015, 35, 3397-3402.	1.7	34
88	Cortical Spreading Depression Denotes Concussion Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 1008-1017.	1.7	34
89	Decreased Microvascular Cerebral Blood Flow Assessed by Diffuse Correlation Spectroscopy after Repetitive Concussions in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1995-2000.	2.4	33
90	The Role of Endothelin in the Pathophysiology of Migraine—a Systematic Review. <i>Current Pain and Headache Reports</i> , 2018, 22, 27.	1.3	32

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91	Differential effects of anesthetics on resting state functional connectivity in the mouse. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 875-884.	2.4	32
92	Chronic daily cortical spreading depressions suppress spreading depression susceptibility. <i>Cephalalgia</i> , 2011, 31, 1601-1608.	1.8	31
93	Real-time non-invasive in vivo visible light detection of cortical spreading depolarizations in mice. <i>Journal of Neuroscience Methods</i> , 2018, 309, 143-146.	1.3	30
94	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> , 2006, 290, H1837-H1841.	1.5	29
95	Pharmacological targeting of spreading depression in migraine. <i>Expert Review of Neurotherapeutics</i> , 2012, 12, 297-306.	1.4	29
96	Delayed Cerebral Ischemia After Subarachnoid Hemorrhage: Experimental-Clinical Disconnect and the Unmet Need. <i>Neurocritical Care</i> , 2020, 32, 238-251.	1.2	29
97	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> , 2015, 35, 1552-1560.	2.4	28
98	Stress hormone corticosterone enhances susceptibility to cortical spreading depression in familial hemiplegic migraine type 1 mutant mice. <i>Experimental Neurology</i> , 2015, 263, 214-220.	2.0	27
99	Spreading Depression in Primary and Secondary Headache Disorders. <i>Current Pain and Headache Reports</i> , 2016, 20, 44.	1.3	27
100	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.	0.7	25
101	Phase III Preclinical Trials in Translational Stroke Research: Community Response on Framework and Guidelines. <i>Translational Stroke Research</i> , 2016, 7, 241-247.	2.3	25
102	Soluble Guanylate Cyclase $\hat{1}\pm\hat{1}\hat{2}$ 1 Limits Stroke Size and Attenuates Neurological Injury. <i>Stroke</i> , 2010, 41, 1815-1819.	1.0	24
103	Rho-Kinase Inhibition Improves Ischemic Perfusion Deficit in Hyperlipidemic Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 284-287.	2.4	24
104	Requisite ischemia for spreading depolarization occurrence after subarachnoid hemorrhage in rodents. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1829-1840.	2.4	24
105	Effects of Cerebral Ischemia on N -Methyl- d -Aspartate and Dihydropyridine-Sensitive Calcium Currents. <i>Stroke</i> , 1996, 27, 127-133.	1.0	23
106	Two-photon microscopy of cortical NADH fluorescence intensity changes: correcting contamination from the hemodynamic response. <i>Journal of Biomedical Optics</i> , 2011, 16, 106003.	1.4	21
107	Endothelial Dysfunction Abrogates the Efficacy of Normobaric Hyperoxia in Stroke. <i>Journal of Neuroscience</i> , 2014, 34, 15200-15207.	1.7	21
108	Cerebrovascular effects of endothelin-1 investigated using high-resolution magnetic resonance imaging in healthy volunteers. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1685-1694.	2.4	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.	2.4	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.	2.4	18
111	Novel Therapeutic Targets Against Spreading Depression. <i>Headache</i> , 2017, 57, 1340-1358.	1.8	18
112	Enriched Environment Elicits Proangiogenic Mechanisms After Focal Cerebral Ischemia. <i>Translational Stroke Research</i> , 2019, 10, 150-159.	2.3	18
113	Acute sleep deprivation enhances susceptibility to the migraine substrate cortical spreading depolarization. <i>Journal of Headache and Pain</i> , 2020, 21, 86.	2.5	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.	2.4	18
115	Questioning Glutamate Excitotoxicity in Acute Brain Damage: The Importance of Spreading Depolarization. <i>Neurocritical Care</i> , 2022, 37, 11-30.	1.2	18
116	High-flow oxygen therapy for treatment of acute migraine: A randomized crossover trial. <i>Cephalalgia</i> , 2017, 37, 730-736.	1.8	17
117	Aspirin Prophylaxis for Migraine with Aura: An Observational Case Series. <i>European Neurology</i> , 2017, 78, 287-289.	0.6	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.	2.4	17
119	Oxcarbazepine does not suppress cortical spreading depression. <i>Cephalalgia</i> , 2011, 31, 537-542.	1.8	16
120	Genetic Animal Models of Cerebral Vasculopathies. <i>Progress in Molecular Biology and Translational Science</i> , 2012, 105, 25-55.	0.9	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.	1.7	16
122	Challenges and Controversies in Translational Stroke Research— an Introduction. <i>Translational Stroke Research</i> , 2016, 7, 355-357.	2.3	16
123	Intravenous Endothelin-1 Infusion Does Not Induce Aura or Headache in Migraine Patients With Aura. <i>Headache</i> , 2020, 60, 724-734.	1.8	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.	2.4	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.	1.9	15
126	An Overhauled Enhanced MRI platform for dynamic free radical imaging <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2018, 31, e3896.	1.6	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.	2.5	14
128	Monitoring cellular edema at single-neuron level by electrical resistance measurements. <i>Journal of Neuroscience Methods</i> , 1997, 72, 175-181.	1.3	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.	2.4	13
130	Intracranial pressure spikes trigger spreading depolarizations. <i>Brain</i> , 2022, 145, 194-207.	3.7	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.	2.4	12
132	Relief Following Chronic Stress Augments Spreading Depolarization Susceptibility in Familial Hemiplegic Migraine Mice. <i>Neuroscience</i> , 2019, 415, 1-9.	1.1	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.	1.0	12
134	Secondary Bleeding During Acute Experimental Intracerebral Hemorrhage. <i>Stroke</i> , 2019, 50, 1210-1215.	1.0	11
135	Preclinical Phase III Trials in Translational Stroke Research. <i>Stroke</i> , 2014, 45, 357-357.	1.0	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.	2.3	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.	1.7	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.	2.4	10
139	Sex and Genetic Background Effects on the Outcome of Experimental Intracranial Aneurysms. <i>Stroke</i> , 2020, 51, 3083-3094.	1.0	10
140	Different Effects of Normobaric Oxygen in Normotensive Versus Hypertensive Rats After Focal Cerebral Ischemia. <i>Stroke</i> , 2018, 49, 1534-1537.	1.0	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.	2.4	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.	2.4	8
143	First-Order Mathematical Modeling of Brain Swelling in Focal Cerebral Ischemia. <i>Translational Stroke Research</i> , 2010, 1, 65-70.	2.3	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.	1.7	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.	1.0	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.	2.5	7
147	Endovascular thrombectomy and post-procedural headache. <i>Journal of Headache and Pain</i> , 2017, 18, 10.	2.5	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.	2.4	6
149	Therapeutic implications of cortical spreading depression models in migraine. <i>Progress in Brain Research</i> , 2020, 255, 29-67.	0.9	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.	2.4	6
151	Imaging PEG-Like Nanoprobes in Tumor, Transient Ischemia, and Inflammatory Disease Models. <i>Bioconjugate Chemistry</i> , 2015, 26, 1061-1069.	1.8	5
152	Treasure hunt in a minefield “ exploring migraine with GWAS. <i>Nature Reviews Neurology</i> , 2016, 12, 496-498.	4.9	5
153	Cortical Spreading Depolarizations in a Mouse Model of Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2022, 37, 123-132.	1.2	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, .	3.9	5
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