

Cenk Ayata

List of Publications by Year in Descending Order

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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	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	8.8	0
157	Migraine.. <i>Nature Reviews Disease Primers</i> , 2022 , 8, 2	51.1	16
156	Cortical Spreading Depolarizations in a Mouse Model of Subarachnoid Hemorrhage.. <i>Neurocritical Care</i> , 2022 , 1	3.3	0
155	Migraine susceptibility is modulated by food triggers and analgesic overuse via sulfotransferase inhibition.. <i>Journal of Headache and Pain</i> , 2022 , 23, 36	8.8	1
154	The Critical Role of Spreading Depolarizations in Early Brain Injury: Consensus and Contention.. <i>Neurocritical Care</i> , 2022 , 1	3.3	2
153	Questioning Glutamate Excitotoxicity in Acute Brain Damage: The Importance of Spreading Depolarization.. <i>Neurocritical Care</i> , 2022 , 1	3.3	2
152	Spreading depression as an innate antiseizure mechanism. <i>Nature Communications</i> , 2021 , 12, 2206	17.4	13
151	Cerebral Amyloid Angiopathy-Related Transient Focal Neurologic Episodes. <i>Neurology</i> , 2021 , 97, 231-238	8.5	6
150	Focal Subcortical White Matter Lesions Disrupt Resting State Cortical Interhemispheric Functional Connectivity in Mice. <i>Cerebral Cortex</i> , 2021 , 31, 4958-4969	5.1	0
149	Intracranial pressure spikes trigger spreading depolarizations. <i>Brain</i> , 2021 ,	11.2	3
148	Optogenetic Spreading Depression Elicits Trigeminal Pain and Anxiety Behavior. <i>Annals of Neurology</i> , 2021 , 89, 99-110	9.4	19
147	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	7.3	6
146	Rapid hematoma growth triggers spreading depolarizations in experimental intracortical hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 1264-1276	7.3	3
145	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	7.3	1
144	Intravascular Endothelin-1 does not trigger or increase susceptibility to Spreading Depolarizations. <i>Journal of Headache and Pain</i> , 2020 , 21, 127	8.8	1
143	Acute sleep deprivation enhances susceptibility to the migraine substrate cortical spreading depolarization. <i>Journal of Headache and Pain</i> , 2020 , 21, 86	8.8	12
142	Anti-migraine Calcitonin Gene-Related Peptide Receptor Antagonists Worsen Cerebral Ischemic Outcome in Mice. <i>Annals of Neurology</i> , 2020 , 88, 771-784	9.4	34

141	Vagus nerve stimulation inhibits cortical spreading depression exclusively through central mechanisms. <i>Pain</i> , 2020 , 161, 1661-1669	8	19
140	Intravenous Endothelin-1 Infusion Does Not Induce Aura or Headache in Migraine Patients With Aura. <i>Headache</i> , 2020 , 60, 724-734	4.2	10
139	Headache after ischemic stroke: A systematic review and meta-analysis. <i>Neurology</i> , 2020 , 94, e75-e86	6.5	22
138	Peri-Infarct Hot-Zones Have Higher Susceptibility to Optogenetic Functional Activation-Induced Spreading Depolarizations. <i>Stroke</i> , 2020 , 51, 2526-2535	6.7	7
137	Therapeutic implications of cortical spreading depression models in migraine. <i>Progress in Brain Research</i> , 2020 , 255, 29-67	2.9	4
136	Sex and Genetic Background Effects on the Outcome of Experimental Intracranial Aneurysms. <i>Stroke</i> , 2020 , 51, 3083-3094	6.7	4
135	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	7.3	17
134	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	7.3	7
133	Delayed Cerebral Ischemia After Subarachnoid Hemorrhage: Experimental-Clinical Disconnect and the Unmet Need. <i>Neurocritical Care</i> , 2020 , 32, 238-251	3.3	20
132	Which Spreading Depolarizations Are Deleterious To Brain Tissue?. <i>Neurocritical Care</i> , 2020 , 32, 317-322	3.3	25
131	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	7.3	30
130	What Should a Clinician Do When Spreading Depolarizations are Observed in a Patient?. <i>Neurocritical Care</i> , 2020 , 32, 306-310	3.3	16
129	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	7.3	9
128	Pathophysiology of Lacunar Stroke: History's Mysteries and Modern Interpretations. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019 , 28, 2079-2097	2.8	25
127	Secondary Bleeding During Acute Experimental Intracerebral Hemorrhage. <i>Stroke</i> , 2019 , 50, 1210-1215	6.7	8
126	Noninvasive Vagus Nerve Stimulation Prevents Ruptures and Improves Outcomes in a Model of Intracranial Aneurysm in Mice. <i>Stroke</i> , 2019 , 50, 1216-1223	6.7	7
125	Cortical Spreading Depression Denotes Concussion Injury. <i>Journal of Neurotrauma</i> , 2019 , 36, 1008-1017	5.4	20
124	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	7.3	4

123	Relief Following Chronic Stress Augments Spreading Depolarization Susceptibility in Familial Hemiplegic Migraine Mice. <i>Neuroscience</i> , 2019 , 415, 1-9	3.9	7
122	Mapping optogenetically-driven single-vessel fMRI with concurrent neuronal calcium recordings in the rat hippocampus. <i>Nature Communications</i> , 2019 , 10, 5239	17.4	23
121	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	7.3	6
120	Determinants of Optogenetic Cortical Spreading Depolarizations. <i>Cerebral Cortex</i> , 2019 , 29, 1150-1161	5.1	24
119	Caffeine does not affect susceptibility to cortical spreading depolarization in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 740-750	7.3	8
118	Enriched Environment Elicits Proangiogenic Mechanisms After Focal Cerebral Ischemia. <i>Translational Stroke Research</i> , 2019 , 10, 150-159	7.8	9
117	An Overhauser-enhanced-MRI platform for dynamic free radical imaging in vivo. <i>NMR in Biomedicine</i> , 2018 , 31, e3896	4.4	10
116	Continuous electroencephalography predicts delayed cerebral ischemia after subarachnoid hemorrhage: A prospective study of diagnostic accuracy. <i>Annals of Neurology</i> , 2018 , 83, 958-969	9.4	55
115	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	7.8	8
114	Different Effects of Normobaric Oxygen in Normotensive Versus Hypertensive Rats After Focal Cerebral Ischemia. <i>Stroke</i> , 2018 , 49, 1534-1537	6.7	8
113	The Role of Endothelin in the Pathophysiology of Migraine-a Systematic Review. <i>Current Pain and Headache Reports</i> , 2018 , 22, 27	4.2	25
112	Spreading depolarizations trigger caveolin-1-dependent endothelial transcytosis. <i>Annals of Neurology</i> , 2018 , 84, 409-423	9.4	44
111	Cognitive dysfunction and migraine. <i>Journal of Headache and Pain</i> , 2018 , 19, 109	8.8	65
110	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	3	24
109	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	5.3	5
108	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	7.3	4
107	The continuum of spreading depolarizations in acute cortical lesion development: Examining LeBET legacy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 1571-1594	7.3	205
106	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	7.3	173

105	High-flow oxygen therapy for treatment of acute migraine: A randomized crossover trial. <i>Cephalalgia</i> , 2017 , 37, 730-736	6.1	15
104	Inhibition of the P2X7-PANX1 complex suppresses spreading depolarization and neuroinflammation. <i>Brain</i> , 2017 , 140, 1643-1656	11.2	60
103	Animal Models of Migraine Aura 2017 , 321-345		1
102	Emerging concepts in sporadic cerebral amyloid angiopathy. <i>Brain</i> , 2017 , 140, 1829-1850	11.2	213
101	Fleeting footprints: finding MRI biomarkers of transient ischaemic attack. <i>Brain</i> , 2017 , 140, 8-10	11.2	1
100	Aspirin Prophylaxis for Migraine with Aura: An Observational Case Series. <i>European Neurology</i> , 2017 , 78, 287-289	2.1	11
99	Novel Therapeutic Targets Against Spreading Depression. <i>Headache</i> , 2017 , 57, 1340-1358	4.2	12
98	Translational Stroke Research: Vision and Opportunities. <i>Stroke</i> , 2017 , 48, 2632-2637	6.7	62
97	Endovascular thrombectomy and post-procedural headache. <i>Journal of Headache and Pain</i> , 2017 , 18, 10	8.8	2
96	Translational MR Neuroimaging of Stroke and Recovery. <i>Translational Stroke Research</i> , 2017 , 8, 22-32	7.8	26
95	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	6.2	14
94	Requisite ischemia for spreading depolarization occurrence after subarachnoid hemorrhage in rodents. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 1829-1840	7.3	21
93	Anesthesia in Experimental Stroke Research. <i>Translational Stroke Research</i> , 2016 , 7, 358-67	7.8	31
92	Phase III Preclinical Trials in Translational Stroke Research: Community Response on Framework and Guidelines. <i>Translational Stroke Research</i> , 2016 , 7, 241-7	7.8	19
91	Vagus nerve stimulation inhibits cortical spreading depression. <i>Pain</i> , 2016 , 157, 797-805	8	92
90	Spreading Depression in Primary and Secondary Headache Disorders. <i>Current Pain and Headache Reports</i> , 2016 , 20, 44	4.2	21
89	Multifaceted roles for astrocytes in spreading depolarization: A target for limiting spreading depolarization in acute brain injury?. <i>Glia</i> , 2016 , 64, 5-20	9	41
88	Migraine mutations impair hippocampal learning despite enhanced long-term potentiation. <i>Journal of Neuroscience</i> , 2015 , 35, 3397-402	6.6	27

87	Supply-demand mismatch transients in susceptible peri-infarct hot zones explain the origins of spreading injury depolarizations. <i>Neuron</i> , 2015 , 85, 1117-31	13.9	120
86	Spreading Depression, Spreading Depolarizations, and the Cerebral Vasculature. <i>Physiological Reviews</i> , 2015 , 95, 953-93	47.9	291
85	High-resolution in vivo optical imaging of stroke injury and repair. <i>Brain Research</i> , 2015 , 1623, 174-92	3.7	26
84	Imaging PEG-like nanoprobes in tumor, transient ischemia, and inflammatory disease models. <i>Bioconjugate Chemistry</i> , 2015 , 26, 1061-9	6.3	5
83	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, 1044-53	7.3	12
82	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, 1100-3	7.3	12
81	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, 1552-60	7.3	22
80	Migraine pathophysiology: lessons from mouse models and human genetics. <i>Lancet Neurology</i> , 2015 , 14, 65-80	24.1	243
79	Migraine prophylaxis, ischemic depolarizations, and stroke outcomes in mice. <i>Stroke</i> , 2015 , 46, 229-36	6.7	29
78	Stress hormone corticosterone enhances susceptibility to cortical spreading depression in familial hemiplegic migraine type 1 mutant mice. <i>Experimental Neurology</i> , 2015 , 263, 214-20	5.7	22
77	Migraine and stroke: in search of shared mechanisms. <i>Cephalalgia</i> , 2015 , 35, 165-81	6.1	54
76	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	7.3	27
75	Comparative Effectiveness of Calabadiol and Sugammadex to Reverse Non-depolarizing Neuromuscular-blocking Agents. <i>Anesthesiology</i> , 2015 , 123, 1337-49	4.3	58
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	9.4	31
73	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	3.7	82
72	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, 977-84	7.3	14
71	Sensitivity to acute cerebral ischemic injury in migraineurs: A retrospective case-control study. <i>Neurology</i> , 2015 , 85, 1945-9	6.5	27
70	Large Arteriolar Component of Oxygen Delivery Implies Safe Margin of Oxygen Supply to Cerebral Tissue. <i>FASEB Journal</i> , 2015 , 29, 794.1	0.9	

69	Etomidate and Ketamine: Residual Motor and Adrenal Dysfunction that Persist beyond Recovery from Loss of Righting Reflex in Rats. <i>Pharmaceuticals</i> , 2014 , 8, 21-37	5.2	6
68	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> , 2014 , 111, E4878-86	11.5	33
67	Fingolimod exerts neuroprotective effects in a mouse model of intracerebral hemorrhage. <i>Brain Research</i> , 2014 , 1555, 89-96	3.7	51
66	Recognition memory impairments after subcortical white matter stroke in mice. <i>Stroke</i> , 2014 , 45, 1468-73	3.7	31
65	Rho-kinase inhibition improves ischemic perfusion deficit in hyperlipidemic mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 284-7	7.3	19
64	Preclinical phase III trials in translational stroke research: call for collective design of framework and guidelines. <i>Stroke</i> , 2014 , 45, 357	6.7	9
63	Selective ROCK2 Inhibition In Focal Cerebral Ischemia. <i>Annals of Clinical and Translational Neurology</i> , 2014 , 1, 2-14	5.3	76
62	Endothelial dysfunction abrogates the efficacy of normobaric hyperoxia in stroke. <i>Journal of Neuroscience</i> , 2014 , 34, 15200-7	6.6	17
61	Spreading depression and the clinical correlates of migraine. <i>Reviews in the Neurosciences</i> , 2013 , 24, 353-63	4.7	32
60	Glucose modulation of spreading depression susceptibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 191-5	7.3	40
59	Hyperlipidemia disrupts cerebrovascular reflexes and worsens ischemic perfusion defect. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 954-62	7.3	34
58	Pearls and pitfalls in experimental models of spreading depression. <i>Cephalalgia</i> , 2013 , 33, 604-13	6.1	48
57	Age-related decline in oligodendrogenesis retards white matter repair in mice. <i>Stroke</i> , 2013 , 44, 2573-8	6.7	78
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> , 2013 , 30, 382-91	5.4	16
55	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, 819-25	7.3	39
54	Calabadiol: A new agent to reverse the effects of benzyloisoquinoline and steroidal neuromuscular-blocking agents. <i>Anesthesiology</i> , 2013 , 119, 317-25	4.3	62
53	Spreading depression and neurovascular coupling. <i>Stroke</i> , 2013 , 44, S87-9	6.7	135
52	Multiparametric, longitudinal optical coherence tomography imaging reveals acute injury and chronic recovery in experimental ischemic stroke. <i>PLoS ONE</i> , 2013 , 8, e71478	3.7	59

51	Genetic animal models of cerebral vasculopathies. <i>Progress in Molecular Biology and Translational Science</i> , 2012 , 105, 25-55	4	13
50	Cortical spreading depression impairs oxygen delivery and metabolism in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 376-86	7.3	53
49	Pharmacological targeting of spreading depression in migraine. <i>Expert Review of Neurotherapeutics</i> , 2012 , 12, 297-306	4.3	25
48	Migraine mutations increase stroke vulnerability by facilitating ischemic depolarizations. <i>Circulation</i> , 2012 , 125, 335-45	16.7	123
47	Chronic daily cortical spreading depressions suppress spreading depression susceptibility. <i>Cephalalgia</i> , 2011 , 31, 1601-8	6.1	25
46	Optical coherence tomography for the quantitative study of cerebrovascular physiology. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 1339-45	7.3	57
45	Gabapentin reduces infarct volume but does not suppress peri-infarct depolarizations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 1578-82	7.3	10
44	Cerebrovascular lesions induce transient amyloid deposition. <i>Brain</i> , 2011 , 134, 3697-707	11.2	134
43	Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy syndrome mutations increase susceptibility to spreading depression. <i>Annals of Neurology</i> , 2011 , 69, 413-8	8.4	78
42	Two-photon microscopy of cortical NADH fluorescence intensity changes: correcting contamination from the hemodynamic response. <i>Journal of Biomedical Optics</i> , 2011 , 16, 106003	3.5	19
41	Enhanced subcortical spreading depression in familial hemiplegic migraine type 1 mutant mice. <i>Journal of Neuroscience</i> , 2011 , 31, 5755-63	6.6	96
40	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	11.5	93
39	Oxcarbazepine does not suppress cortical spreading depression. <i>Cephalalgia</i> , 2011 , 31, 537-42	6.1	15
38	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, 1168-77	7.3	49
37	Gabapentin suppresses cortical spreading depression susceptibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 1588-92	7.3	29
36	Soluble guanylate cyclase alpha1beta1 limits stroke size and attenuates neurological injury. <i>Stroke</i> , 2010 , 41, 1815-9	6.7	20
35	CADASIL: experimental insights from animal models. <i>Stroke</i> , 2010 , 41, S129-34	6.7	53
34	Nutrient-sensitized screening for drugs that shift energy metabolism from mitochondrial respiration to glycolysis. <i>Nature Biotechnology</i> , 2010 , 28, 249-55	44.5	234

33	First-order mathematical modeling of brain swelling in focal cerebral ischemia. <i>Translational Stroke Research</i> , 2010 , 1, 65-70	7.8	7
32	Cortical spreading depression and migraine. <i>Current Neurology and Neuroscience Reports</i> , 2010 , 10, 167-186	7.3	75
31	Cortical spreading depression triggers migraine attack: pro. <i>Headache</i> , 2010 , 50, 725-30	4.2	153
30	Androgenic suppression of spreading depression in familial hemiplegic migraine type 1 mutant mice. <i>Annals of Neurology</i> , 2009 , 66, 564-8	9.4	79
29	Genetic and hormonal factors modulate spreading depression and transient hemiparesis in mouse models of familial hemiplegic migraine type 1. <i>Journal of Clinical Investigation</i> , 2009 , 119, 99-109	15.9	187
28	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, 1369-73	7.3	75
27	The impact of anesthetics and hyperoxia on cortical spreading depression. <i>Experimental Neurology</i> , 2008 , 212, 201-6	5.7	72
26	A randomized, double-blind, placebo-controlled pilot study of simvastatin in aneurysmal subarachnoid hemorrhage. <i>Stroke</i> , 2008 , 39, 2891-3	6.7	106
25	Mild induced hypertension improves blood flow and oxygen metabolism in transient focal cerebral ischemia. <i>Stroke</i> , 2008 , 39, 1548-55	6.7	114
24	Linking Notch signaling to ischemic stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 4856-61	11.5	76
23	Normobaric hyperoxia improves cerebral blood flow and oxygenation, and inhibits peri-infarct depolarizations in experimental focal ischaemia. <i>Brain</i> , 2007 , 130, 1631-42	11.2	137
22	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	7.3	94
21	Age-dependent cerebrovascular dysfunction in a transgenic mouse model of cerebral amyloid angiopathy. <i>Brain</i> , 2007 , 130, 2310-9	11.2	146
20	A computerized algorithm for etiologic classification of ischemic stroke: the Causative Classification of Stroke System. <i>Stroke</i> , 2007 , 38, 2979-84	6.7	328
19	The phosphorylation state of eNOS modulates vascular reactivity and outcome of cerebral ischemia in vivo. <i>Journal of Clinical Investigation</i> , 2007 , 117, 1961-7	15.9	125
18	Suppression of cortical spreading depression in migraine prophylaxis. <i>Annals of Neurology</i> , 2006 , 59, 652-61	9.4	440
17	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, H1837-41	5.2	27
16	Vasoconstrictive neurovascular coupling during focal ischemic depolarizations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006 , 26, 1018-30	7.3	251

15	Cortical Spreading Depression: A Model for Understanding Migraine Biology and Future Drug Targets. <i>Headache Currents: A Journal for Recent Advances in Headache and Facial Pain</i> , 2005 , 2, 97-103		22
14	Laser speckle flowmetry for the study of cerebrovascular physiology in normal and ischemic mouse cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004 , 24, 744-55	7.3	225
13	Pronounced hypoperfusion during spreading depression in mouse cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004 , 24, 1172-82	7.3	144
12	Achieving normothermia in patients with febrile subarachnoid hemorrhage: feasibility and safety of a novel intravascular cooling catheter. <i>Neurocritical Care</i> , 2004 , 1, 145-56	3.3	37
11	Timing of neurologic deterioration in massive middle cerebral artery infarction: a multicenter review. <i>Critical Care Medicine</i> , 2003 , 31, 272-7	1.4	149
10	Vasculitis of the spinal cord. <i>Archives of Neurology</i> , 2003 , 60, 1791-4		33
9	Intensive care management of specific stroke treatment. <i>Advances in Neurology</i> , 2003 , 92, 361-77		
8	Ischaemic brain oedema. <i>Journal of Clinical Neuroscience</i> , 2002 , 9, 113-24	2.2	221
7	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, 144-8	7.3	12
6	Mechanisms of reduced striatal NMDA excitotoxicity in type I nitric oxide synthase knock-out mice. <i>Journal of Neuroscience</i> , 1997 , 17, 6908-17	6.6	175
5	Monitoring cellular edema at single-neuron level by electrical resistance measurements. <i>Journal of Neuroscience Methods</i> , 1997 , 72, 175-81	3	12
4	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, 539-41	7.3	89
3	Enlarged infarcts in endothelial nitric oxide synthase knockout mice are attenuated by nitro-L-arginine. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996 , 16, 981-7	7.3	628
2	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> , 1996 , 27, 127-33	6.7	22
1	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> , 1995 , 116, 1661-7	8.6	66