Sebastian Major

List of Publications by Year
in descending order

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43 papers	5,031 citations	201674 27 h-index	265206 42 g-index
43 all docs	43 docs citations	43 times ranked	4661 citing authors

#	Article	IF	Citations
1	Physiological variables in association with spreading depolarizations in the late phase of ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 121-135.	4.3	7
2	Spreading depolarizations in ischaemia after subarachnoid haemorrhage, a diagnostic phase III study. Brain, 2022, 145, 1264-1284.	7.6	41
3	Migraine Aura, Transient Ischemic Attacks, Stroke, and Dying of the Brain Share the Same Key Pathophysiological Process in Neurons Driven by Gibbsâ€“Donnan Forces, Namely Spreading Depolarization. Frontiers in Cellular Neuroscience, 2022, 16, 837650.	3.7	33
4	Oxygen-Induced and pH-Induced Direct Current Artifacts on Invasive Platinum/Iridium Electrodes for Electrocorticography. Neurocritical Care, 2021, 35, 146-159.	2.4	7
5	Na⁺/K⁺-ATPase Î± isoform deficiency results in distinct spreading depolarization phenotypes. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 622-638.	4.3	27
6	Spreading depolarizations in the rat endothelin-1 model of focal cerebellar ischemia. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1274-1289.	4.3	14
7	Direct electrophysiological evidence that spreading depolarization-induced spreading depression is the pathophysiological correlate of the migraine aura and a review of the spreading depolarization continuum of acute neuronal mass injury. GeroScience, 2020, 42, 57-80.	4.6	45
8	Correlates of Spreading Depolarization, Spreading Depression, and Negative Ultraslow Potential in Epidural Versus Subdural Electrocorticography. Frontiers in Neuroscience, 2019, 13, 373.	2.8	40
9	Early blood-brain barrier dysfunction predicts neurological outcome following aneurysmal subarachnoid hemorrhage. EBioMedicine, 2019, 43, 460-472.	6.1	52
10	Lasting s-ketamine block of spreading depolarizations in subarachnoid hemorrhage: a retrospective cohort study. Critical Care, 2019, 23, 427.	5.8	42
11	Early focal brain injury after subarachnoid hemorrhage correlates with spreading depolarizations. Neurology, 2019, 92, e326-e341.	1.1	40
12	Terminal spreading depolarizations causing electrocortical silencing prior to clinical brain death: case report. Journal of Neurosurgery, 2019, 131, 1773-1779.	1.6	41
13	Terminal spreading depolarization and electrical silence in death of human cerebral cortex. Annals of Neurology, 2018, 83, 295-310.	5.3	103
14	The negative ultraslow potential, electrophysiological correlate of infarction in the human cortex. Brain, 2018, 141, 1734-1752.	7.6	81
15	A role of the sodium pump in spreading ischemia in rats. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1687-1705.	4.3	37
16	The continuum of spreading depolarizations in acute cortical lesion development: Examining LeÃ£oâ€™s legacy. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1571-1594.	4.3	297
17	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
18	The Hijdra scale has significant prognostic value for the functional outcome of Fisher gradeÂ3 patients with subarachnoid hemorrhage. Clinical Neuroradiology, 2017, 27, 361-369.	1.9	17

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19	Oxygen availability and spreading depolarizations provide complementary prognostic information in neuromonitoring of aneurysmal subarachnoid hemorrhage patients. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1841-1856.	4.3	38
20	Standard-sampling microdialysis and spreading depolarizations in patients with malignant hemispheric stroke. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1896-1905.	4.3	23
21	Subarachnoid blood acutely induces spreading depolarizations and early cortical infarction. Brain, 2017, 140, 2673-2690.	7.6	96
22	Simulation of spreading depolarization trajectories in cerebral cortex: Correlation of velocity and susceptibility in patients with aneurysmal subarachnoid hemorrhage. NeuroImage: Clinical, 2017, 16, 524-538.	2.7	22
23	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. Lancet Neurology, The, 2017, 16, 987-1048.	10.2	1,571
24	Spreading Depolarizations and Seizures in Clinical Subdural Electrocorticographic Recordings. Current Clinical Neurology, 2017, , 77-90.	0.2	7
25	A Laboratory Critical Incident and Error Reporting System for Experimental Biomedicine. PLoS Biology, 2016, 14, e2000705.	5.6	13
26	Complications in Aneurysmal Subarachnoid Hemorrhage Patients With and Without Subdural Electrode Strip for Electrocorticography. Journal of Clinical Neurophysiology, 2016, 33, 250-259.	1.7	21
27	Electrochemical Failure of the Brain Cortex Is More Deleterious When it Is Accompanied by Low Perfusion. Stroke, 2013, 44, 490-496.	2.0	29
28	Propagation of cortical spreading depolarization in the human cortex after malignant stroke. Neurology, 2013, 80, 1095-1102.	1.1	164
29	Spreading Ischemia After Aneurysmal Subarachnoid Hemorrhage. Acta Neurochirurgica Supplementum, 2013, 115, 125-129.	1.0	36
30	Criteria for the Diagnosis of Noninfectious and Infectious Complications After Aneurysmal Subarachnoid Hemorrhage in DISCHARGE-1. Acta Neurochirurgica Supplementum, 2013, 115, 153-159.	1.0	8
31	Delayed Cerebral Ischemia and Spreading Depolarization in Absence of Angiographic Vasospasm after Subarachnoid Hemorrhage. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 203-212.	4.3	168
32	Spreading convulsions, spreading depolarization and epileptogenesis in human cerebral cortex. Brain, 2012, 135, 259-275.	7.6	211
33	Correlates of spreading depolarization in human scalp electroencephalography. Brain, 2012, 135, 853-868.	7.6	126
34	Impaired neurovascular coupling to ictal epileptic activity and spreading depolarization in a patient with subarachnoid hemorrhage: Possible link to bloodâ€“brain barrier dysfunction. Epilepsia, 2012, 53, 22-30.	5.1	51
35	Assessment of Neurovascular Coupling. Springer Protocols, 2012, , 353-372.	0.3	1
36	Experimental and Preliminary Clinical Evidence of an Ischemic Zone with Prolonged Negative DC Shifts Surrounded by a Normally Perfused Tissue Belt with Persistent Electrocorticographic Depression. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1504-1519.	4.3	94

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37	Cortical spreading ischaemia is a novel process involved in ischaemic damage in patients with aneurysmal subarachnoid haemorrhage. Brain, 2009, 132, 1866-1881.	7.6	479
38	Recovery of Slow Potentials in AC-Coupled Electrocorticography: Application to Spreading Depolarizations in Rat and Human Cerebral Cortex. Journal of Neurophysiology, 2009, 102, 2563-2575.	1.8	32
39	Endothelin-1-induced spreading depression in rats is associated with a microarea of selective neuronal necrosis. Experimental Biology and Medicine, 2007, 232, 204-13.	2.4	29
40	Delayed ischaemic neurological deficits after subarachnoid haemorrhage are associated with clusters of spreading depolarizations. Brain, 2006, 129, 3224-3237.	7.6	507
41	Increased Extracellular K ⁺ Concentration Reduces the Efficacy of N -methyl-<scp>d</scp> -aspartate Receptor Antagonists to Block Spreading Depression-Like Depolarizations and Spreading Ischemia. Stroke, 2005, 36, 1270-1277.	2.0	76
42	ET-1 induces cortical spreading depression via activation of the ETA receptor/phospholipase C pathway in vivo. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1339-H1346.	3.2	49
43	Increased Direct Current-Electroencephalography Shifts During Induction of Anesthesia in Elderly Patients Developing Postoperative Delirium. Frontiers in Aging Neuroscience, 0, 14, .	3.4	1