

Sebastian Major

List of Publications by Year in descending order

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papers

5,031
citations

201674

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265206

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docs citations

43
times ranked

4661
citing authors

#	ARTICLE	IF	CITATIONS
1	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. <i>Lancet Neurology</i> , The, 2017, 16, 987-1048.	10.2	1,571
2	Delayed ischaemic neurological deficits after subarachnoid haemorrhage are associated with clusters of spreading depolarizations. <i>Brain</i> , 2006, 129, 3224-3237.	7.6	507
3	Cortical spreading ischaemia is a novel process involved in ischaemic damage in patients with aneurysmal subarachnoid haemorrhage. <i>Brain</i> , 2009, 132, 1866-1881.	7.6	479
4	The continuum of spreading depolarizations in acute cortical lesion development: Examining Leão's legacy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1571-1594.	4.3	297
5	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.	4.3	255
6	Spreading convulsions, spreading depolarization and epileptogenesis in human cerebral cortex. <i>Brain</i> , 2012, 135, 259-275.	7.6	211
7	Delayed Cerebral Ischemia and Spreading Depolarization in Absence of Angiographic Vasospasm after Subarachnoid Hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 203-212.	4.3	168
8	Propagation of cortical spreading depolarization in the human cortex after malignant stroke. <i>Neurology</i> , 2013, 80, 1095-1102.	1.1	164
9	Correlates of spreading depolarization in human scalp electroencephalography. <i>Brain</i> , 2012, 135, 853-868.	7.6	126
10	Terminal spreading depolarization and electrical silence in death of human cerebral cortex. <i>Annals of Neurology</i> , 2018, 83, 295-310.	5.3	103
11	Subarachnoid blood acutely induces spreading depolarizations and early cortical infarction. <i>Brain</i> , 2017, 140, 2673-2690.	7.6	96
12	Experimental and Preliminary Clinical Evidence of an Ischemic Zone with Prolonged Negative DC Shifts Surrounded by a Normally Perfused Tissue Belt with Persistent Electroencephalographic Depression. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1504-1519.	4.3	94
13	The negative ultraslow potential, electrophysiological correlate of infarction in the human cortex. <i>Brain</i> , 2018, 141, 1734-1752.	7.6	81
14	Increased Extracellular K ⁺ Concentration Reduces the Efficacy of N-methyl-D-aspartate Receptor Antagonists to Block Spreading Depression-Like Depolarizations and Spreading Ischemia. <i>Stroke</i> , 2005, 36, 1270-1277.	2.0	76
15	Early blood-brain barrier dysfunction predicts neurological outcome following aneurysmal subarachnoid hemorrhage. <i>EBioMedicine</i> , 2019, 43, 460-472.	6.1	52
16	Impaired neurovascular coupling to ictal epileptic activity and spreading depolarization in a patient with subarachnoid hemorrhage: Possible link to blood-brain barrier dysfunction. <i>Epilepsia</i> , 2012, 53, 22-30.	5.1	51
17	ET-1 induces cortical spreading depression via activation of the ETA receptor/phospholipase C pathway in vivo. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H1339-H1346.	3.2	49
18	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. <i>GeroScience</i> , 2020, 42, 57-80.	4.6	45

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19	Lasting s-ketamine block of spreading depolarizations in subarachnoid hemorrhage: a retrospective cohort study. <i>Critical Care</i> , 2019, 23, 427.	5.8	42
20	Terminal spreading depolarizations causing electrocortical silencing prior to clinical brain death: case report. <i>Journal of Neurosurgery</i> , 2019, 131, 1773-1779.	1.6	41
21	Spreading depolarizations in ischaemia after subarachnoid haemorrhage, a diagnostic phase III study. <i>Brain</i> , 2022, 145, 1264-1284.	7.6	41
22	Correlates of Spreading Depolarization, Spreading Depression, and Negative Ultraslow Potential in Epidural Versus Subdural Electrocorticography. <i>Frontiers in Neuroscience</i> , 2019, 13, 373.	2.8	40
23	Early focal brain injury after subarachnoid hemorrhage correlates with spreading depolarizations. <i>Neurology</i> , 2019, 92, e326-e341.	1.1	40
24	Oxygen availability and spreading depolarizations provide complementary prognostic information in neuromonitoring of aneurysmal subarachnoid hemorrhage patients. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1841-1856.	4.3	38
25	A role of the sodium pump in spreading ischemia in rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1687-1705.	4.3	37
26	Spreading Ischemia After Aneurysmal Subarachnoid Hemorrhage. <i>Acta Neurochirurgica Supplementum</i> , 2013, 115, 125-129.	1.0	36
27	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. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 837650.	3.7	33
28	Recovery of Slow Potentials in AC-Coupled Electrocorticography: Application to Spreading Depolarizations in Rat and Human Cerebral Cortex. <i>Journal of Neurophysiology</i> , 2009, 102, 2563-2575.	1.8	32
29	Electrochemical Failure of the Brain Cortex Is More Deleterious When it Is Accompanied by Low Perfusion. <i>Stroke</i> , 2013, 44, 490-496.	2.0	29
30	Endothelin-1-induced spreading depression in rats is associated with a microarea of selective neuronal necrosis. <i>Experimental Biology and Medicine</i> , 2007, 232, 204-13.	2.4	29
31	Na ⁺ /K ⁺ -ATPase $\hat{\pm}$ isoform deficiency results in distinct spreading depolarization phenotypes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 622-638.	4.3	27
32	Standard-sampling microdialysis and spreading depolarizations in patients with malignant hemispheric stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1896-1905.	4.3	23
33	Simulation of spreading depolarization trajectories in cerebral cortex: Correlation of velocity and susceptibility in patients with aneurysmal subarachnoid hemorrhage. <i>NeuroImage: Clinical</i> , 2017, 16, 524-538.	2.7	22
34	Complications in Aneurysmal Subarachnoid Hemorrhage Patients With and Without Subdural Electrode Strip for Electrocorticography. <i>Journal of Clinical Neurophysiology</i> , 2016, 33, 250-259.	1.7	21
35	The Hijdra scale has significant prognostic value for the functional outcome of Fisher grade 3 patients with subarachnoid hemorrhage. <i>Clinical Neuroradiology</i> , 2017, 27, 361-369.	1.9	17
36	Spreading depolarizations in the rat endothelin-1 model of focal cerebellar ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1274-1289.	4.3	14

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37	A Laboratory Critical Incident and Error Reporting System for Experimental Biomedicine. PLoS Biology, 2016, 14, e2000705.	5.6	13
38	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
39	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
40	Spreading Depolarizations and Seizures in Clinical Subdural Electroencephalographic Recordings. Current Clinical Neurology, 2017, , 77-90.	0.2	7
41	Oxygen-Induced and pH-Induced Direct Current Artifacts on Invasive Platinum/Iridium Electrodes for Electroencephalography. Neurocritical Care, 2021, 35, 146-159.	2.4	7
42	Assessment of Neurovascular Coupling. Springer Protocols, 2012, , 353-372.	0.3	1
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