

R David Andrew

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

2,233
citations

304743

22
h-index

395702

33
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34
all docs

34
docs citations

34
times ranked

2052
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Real-time passive volume responses of astrocytes to acute osmotic and ischemic stress in cortical slices and <i>in vivo</i> revealed by two-photon microscopy. <i>Glia</i> , 2009, 57, 207-221.	4.9	206
4	Imaging Spreading Depression and Associated Intracellular Calcium Waves in Brain Slices. <i>Journal of Neuroscience</i> , 1998, 18, 7189-7199.	3.6	195
5	Physiological Evidence That Pyramidal Neurons Lack Functional Water Channels. <i>Cerebral Cortex</i> , 2006, 17, 787-802.	2.9	151
6	Anoxic Depolarization Mediates Acute Damage Independent of Glutamate in Neocortical Brain Slices. <i>Cerebral Cortex</i> , 2001, 11, 249-259.	2.9	129
7	Seizure susceptibility and the osmotic state. <i>Brain Research</i> , 1989, 498, 175-180.	2.2	107
8	Spreading Depression: Imaging and Blockade in the Rat Neocortical Brain Slice. <i>Journal of Neurophysiology</i> , 2002, 88, 2713-2725.	1.8	104
9	Blocking the Anoxic Depolarization Protects Without Functional Compromise Following Simulated Stroke in Cortical Brain Slices. <i>Journal of Neurophysiology</i> , 2005, 93, 963-979.	1.8	97
10	Glutamate Does Not Mediate Acute Neuronal Damage after Spreading Depression Induced by O ₂ /Glucose Deprivation in the Hippocampal Slice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 412-422.	4.3	80
11	Spreading depression determines acute cellular damage in the hippocampal slice during oxygen/glucose deprivation. <i>European Journal of Neuroscience</i> , 1998, 10, 3451-3461.	2.6	76
12	Characterization of Aldh2 ^{-/-} mice as an age-related model of cognitive impairment and Alzheimer's disease. <i>Molecular Brain</i> , 2015, 8, 27.	2.6	67
13	Mechanisms of spreading depolarization in vertebrate and insect central nervous systems. <i>Journal of Neurophysiology</i> , 2016, 116, 1117-1127.	1.8	48
14	Spreading Depression Expands Traumatic Injury in Neocortical Brain Slices. <i>Journal of Neurotrauma</i> , 2005, 22, 277-290.	3.4	46
15	Brainstem Neurons Survive the Identical Ischemic Stress That Kills Higher Neurons: Insight to the Persistent Vegetative State. <i>PLoS ONE</i> , 2014, 9, e96585.	2.5	45
16	Which Spreading Depolarizations Are Deleterious To Brain Tissue?. <i>Neurocritical Care</i> , 2020, 32, 317-322.	2.4	40
17	The Critical Role of Spreading Depolarizations in Early Brain Injury: Consensus and Contention. <i>Neurocritical Care</i> , 2022, 37, 83-101.	2.4	36
18	Neural shutdown under stress: an evolutionary perspective on spreading depolarization. <i>Journal of Neurophysiology</i> , 2020, 123, 885-895.	1.8	33

#	ARTICLE	IF	CITATIONS
19	A Distinct Boundary between the Higher Brain's Susceptibility to Ischemia and the Lower Brain's Resistance. PLoS ONE, 2013, 8, e79589.	2.5	32
20	Potent inhibition of anoxic depolarization by the sodium channel blocker dibucaine. Journal of Neurophysiology, 2011, 105, 1482-1494.	1.8	31
21	Spreading depolarization triggered by elevated potassium is weak or absent in the rodent lower brain. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1735-1747.	4.3	28
22	Examining protection from anoxic depolarization by the drugs dibucaine and carbetapentane using whole cell recording from CA1 neurons. Journal of Neurophysiology, 2012, 107, 2083-2095.	1.8	27
23	Questioning Glutamate Excitotoxicity in Acute Brain Damage: The Importance of Spreading Depolarization. Neurocritical Care, 2022, 37, 11-30.	2.4	18
24	Neuronal Swelling: A Non-osmotic Consequence of Spreading Depolarization. Neurocritical Care, 2021, 35, 112-134.	2.4	17
25	Morphometric Analysis of Hippocampal and Neocortical Pyramidal Neurons in a Mouse Model of Late Onset Alzheimer's Disease. Journal of Alzheimer's Disease, 2020, 74, 1069-1083.	2.6	16
26	Onset and Regression of Pregnancy-Induced Cardiac Alterations in Gestationally Hypertensive Mice: The Role of the Natriuretic Peptide System1. Biology of Reproduction, 2015, 93, 142.	2.7	12
27	Neuronal Calcium Imaging, Excitability, and Plasticity Changes in the Aldh2 ^{-/-} Mouse Model of Sporadic Alzheimer's Disease. Journal of Alzheimer's Disease, 2020, 77, 1623-1637.	2.6	10
28	Maternal hypertension programs increased cerebral tissue damage following stroke in adult offspring. Molecular and Cellular Biochemistry, 2015, 408, 223-233.	3.1	8
29	Spreading depolarization and neuronal damage or survival in mouse neocortical brain slices immediately and 12 hours following middle cerebral artery occlusion. Journal of Neurophysiology, 2019, 121, 1650-1663.	1.8	8
30	Molecular adaptations in vasoactive systems during acute stroke in salt-induced hypertension. Molecular and Cellular Biochemistry, 2015, 399, 39-47.	3.1	5
31	Age-Related Neuronal Deterioration Specifically Within the Dorsal CA1 Region of the Hippocampus in a Mouse Model of Late Onset Alzheimer's Disease. Journal of Alzheimer's Disease, 2021, 79, 1547-1561.	2.6	4
32	Expression of Neuronal Na ⁺ /K ⁺ -ATPase α Subunit Isoforms in the Mouse Brain Following Genetically Programmed or Behaviourally-induced Oxidative Stress. Neuroscience, 2020, 442, 202-215.	2.3	3
33	Developmental origins of pregnancy-induced cardiac changes: establishment of a novel model using the atrial natriuretic peptide gene-disrupted mice. Molecular and Cellular Biochemistry, 2018, 449, 227-236.	3.1	2
34	Sigma receptors mediate potent neuroprotection in vivo and inhibit neuronal depolarisation and swelling in rat brain slices. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S468-S468.	4.3	0