

# 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  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2052  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Critical Role of Spreading Depolarizations in Early Brain Injury: Consensus and Contention. <i>Neurocritical Care</i> , 2022, 37, 83-101.	2.4	36
2	Questioning Glutamate Excitotoxicity in Acute Brain Damage: The Importance of Spreading Depolarization. <i>Neurocritical Care</i> , 2022, 37, 11-30.	2.4	18
3	Age-Related Neuronal Deterioration Specifically Within the Dorsal CA1 Region of the Hippocampus in a Mouse Model of Late Onset Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021, 79, 1547-1561.	2.6	4
4	Neuronal Swelling: A Non-osmotic Consequence of Spreading Depolarization. <i>Neurocritical Care</i> , 2021, 35, 112-134.	2.4	17
5	Which Spreading Depolarizations Are Deleterious To Brain Tissue?. <i>Neurocritical Care</i> , 2020, 32, 317-322.	2.4	40
6	Expression of Neuronal Na <sup>+</sup> /K <sup>+</sup> -ATPase $\alpha$ Subunit Isoforms in the Mouse Brain Following Genetically Programmed or Behaviourally-induced Oxidative Stress. <i>Neuroscience</i> , 2020, 442, 202-215.	2.3	3
7	Neuronal Calcium Imaging, Excitability, and Plasticity Changes in the Aldh2 <sup>-/-</sup> Mouse Model of Sporadic Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2020, 77, 1623-1637.	2.6	10
8	Neural shutdown under stress: an evolutionary perspective on spreading depolarization. <i>Journal of Neurophysiology</i> , 2020, 123, 885-895.	1.8	33
9	Morphometric Analysis of Hippocampal and Neocortical Pyramidal Neurons in a Mouse Model of Late Onset Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2020, 74, 1069-1083.	2.6	16
10	Spreading depolarization and neuronal damage or survival in mouse neocortical brain slices immediately and 12 hours following middle cerebral artery occlusion. <i>Journal of Neurophysiology</i> , 2019, 121, 1650-1663.	1.8	8
11	Developmental origins of pregnancy-induced cardiac changes: establishment of a novel model using the atrial natriuretic peptide gene-disrupted mice. <i>Molecular and Cellular Biochemistry</i> , 2018, 449, 227-236.	3.1	2
12	The continuum of spreading depolarizations in acute cortical lesion development: Examining LeÃo's legacy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1571-1594.	4.3	297
13	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
14	Spreading depolarization triggered by elevated potassium is weak or absent in the rodent lower brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1735-1747.	4.3	28
15	Mechanisms of spreading depolarization in vertebrate and insect central nervous systems. <i>Journal of Neurophysiology</i> , 2016, 116, 1117-1127.	1.8	48
16	Onset and Regression of Pregnancy-Induced Cardiac Alterations in Gestationally Hypertensive Mice: The Role of the Natriuretic Peptide System1. <i>Biology of Reproduction</i> , 2015, 93, 142.	2.7	12
17	Characterization of Aldh2 <sup>-/-</sup> mice as an age-related model of cognitive impairment and Alzheimer's disease. <i>Molecular Brain</i> , 2015, 8, 27.	2.6	67
18	Molecular adaptations in vasoactive systems during acute stroke in salt-induced hypertension. <i>Molecular and Cellular Biochemistry</i> , 2015, 399, 39-47.	3.1	5

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19	Maternal hypertension programs increased cerebral tissue damage following stroke in adult offspring. <i>Molecular and Cellular Biochemistry</i> , 2015, 408, 223-233.	3.1	8
20	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
21	A Distinct Boundary between the Higher Brain's Susceptibility to Ischemia and the Lower Brain's Resistance. <i>PLoS ONE</i> , 2013, 8, e79589.	2.5	32
22	Examining protection from anoxic depolarization by the drugs dibucaine and carbetapentane using whole cell recording from CA1 neurons. <i>Journal of Neurophysiology</i> , 2012, 107, 2083-2095.	1.8	27
23	Potent inhibition of anoxic depolarization by the sodium channel blocker dibucaine. <i>Journal of Neurophysiology</i> , 2011, 105, 1482-1494.	1.8	31
24	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
25	Physiological Evidence That Pyramidal Neurons Lack Functional Water Channels. <i>Cerebral Cortex</i> , 2006, 17, 787-802.	2.9	151
26	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
27	Spreading Depression Expands Traumatic Injury in Neocortical Brain Slices. <i>Journal of Neurotrauma</i> , 2005, 22, 277-290.	3.4	46
28	Sigma receptors mediate potent neuroprotection <i>in vivo</i> and inhibit neuronal depolarisation and swelling in rat brain slices. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S468-S468.	4.3	0
29	Spreading Depression: Imaging and Blockade in the Rat Neocortical Brain Slice. <i>Journal of Neurophysiology</i> , 2002, 88, 2713-2725.	1.8	104
30	Anoxic Depolarization Mediates Acute Damage Independent of Glutamate in Neocortical Brain Slices. <i>Cerebral Cortex</i> , 2001, 11, 249-259.	2.9	129
31	Glutamate Does Not Mediate Acute Neuronal Damage after Spreading Depression Induced by O <sub>2</sub> /Glucose Deprivation in the Hippocampal Slice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 412-422.	4.3	80
32	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
33	Imaging Spreading Depression and Associated Intracellular Calcium Waves in Brain Slices. <i>Journal of Neuroscience</i> , 1998, 18, 7189-7199.	3.6	195
34	Seizure susceptibility and the osmotic state. <i>Brain Research</i> , 1989, 498, 175-180.	2.2	107