

John A Wemmie

List of Publications by Year in descending order

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91
papers

9,931
citations

53794

45
h-index

48315

88
g-index

94
all docs

94
docs citations

94
times ranked

7117
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroprotection in Ischemia. <i>Cell</i> , 2004, 118, 687-698.	28.9	948
2	The Acid-Activated Ion Channel ASIC Contributes to Synaptic Plasticity, Learning, and Memory. <i>Neuron</i> , 2002, 34, 463-477.	8.1	638
3	Acid-sensing ion channels in pain and disease. <i>Nature Reviews Neuroscience</i> , 2013, 14, 461-471.	10.2	510
4	Acid-sensing ion channels: advances, questions and therapeutic opportunities. <i>Trends in Neurosciences</i> , 2006, 29, 578-586.	8.6	505
5	Acid-Sensing Ion Channel 1 Is Localized in Brain Regions with High Synaptic Density and Contributes to Fear Conditioning. <i>Journal of Neuroscience</i> , 2003, 23, 5496-5502.	3.6	415
6	Chronic hyperalgesia induced by repeated acid injections in muscle is abolished by the loss of ASIC3, but not ASIC1. <i>Pain</i> , 2003, 106, 229-239.	4.2	396
7	Acid-sensing ion channel-1 contributes to axonal degeneration in autoimmune inflammation of the central nervous system. <i>Nature Medicine</i> , 2007, 13, 1483-1489.	30.7	373
8	The Amygdala Is a Chemosensor that Detects Carbon Dioxide and Acidosis to Elicit Fear Behavior. <i>Cell</i> , 2009, 139, 1012-1021.	28.9	361
9	Heteromultimers of DEG/ENaC subunits form H ⁺ -gated channels in mouse sensory neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2338-2343.	7.1	336
10	Seizure termination by acidosis depends on ASIC1a. <i>Nature Neuroscience</i> , 2008, 11, 816-822.	14.8	325
11	Fear and panic in humans with bilateral amygdala damage. <i>Nature Neuroscience</i> , 2013, 16, 270-272.	14.8	256
12	Different contributions of ASIC channels 1a, 2, and 3 in gastrointestinal mechanosensory function. <i>Gut</i> , 2005, 54, 1408-1415.	12.1	246
13	Protons are a neurotransmitter that regulates synaptic plasticity in the lateral amygdala. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8961-8966.	7.1	227
14	Acid-sensing Ion Channel 2 (ASIC2) Modulates ASIC1 H ⁺ -activated Currents in Hippocampal Neurons. <i>Journal of Biological Chemistry</i> , 2004, 279, 18296-18305.	3.4	204
15	Overexpression of acid-sensing ion channel 1a in transgenic mice increases acquired fear-related behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 3621-3626.	7.1	199
16	Breathing Inhibited When Seizures Spread to the Amygdala and upon Amygdala Stimulation. <i>Journal of Neuroscience</i> , 2015, 35, 10281-10289.	3.6	180
17	Acid-sensing ion channel 1a is a postsynaptic proton receptor that affects the density of dendritic spines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16556-16561.	7.1	178
18	Acid-sensing ion channels contribute to synaptic transmission and inhibit cocaine-evoked plasticity. <i>Nature Neuroscience</i> , 2014, 17, 1083-1091.	14.8	176

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19	Subunit-Dependent High-Affinity Zinc Inhibition of Acid-Sensing Ion Channels. <i>Journal of Neuroscience</i> , 2004, 24, 8678-8689.	3.6	163
20	Role of Calcitonin Gene-Related Peptide in Light-Aversive Behavior: Implications for Migraine. <i>Journal of Neuroscience</i> , 2009, 29, 8798-8804.	3.6	160
21	Acid-Sensing Ion Channel-1a in the Amygdala, a Novel Therapeutic Target in Depression-Related Behavior. <i>Journal of Neuroscience</i> , 2009, 29, 5381-5388.	3.6	146
22	ASIC1 and ASIC3 Play Different Roles in the Development of Hyperalgesia After Inflammatory Muscle Injury. <i>Journal of Pain</i> , 2010, 11, 210-218.	1.4	144
23	The ion channel ASIC1 contributes to visceral but not cutaneous mechanoreceptor function. <i>Gastroenterology</i> , 2004, 127, 1739-1747.	1.3	138
24	Targeting ASIC1a Reduces Innate Fear and Alters Neuronal Activity in the Fear Circuit. <i>Biological Psychiatry</i> , 2007, 62, 1140-1148.	1.3	136
25	Detecting activity-evoked pH changes in human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8270-8273.	7.1	134
26	Mutations in Prickle Orthologs Cause Seizures in Flies, Mice, and Humans. <i>American Journal of Human Genetics</i> , 2011, 88, 138-149.	6.2	125
27	Stomatin Modulates Gating of Acid-sensing Ion Channels. <i>Journal of Biological Chemistry</i> , 2004, 279, 53886-53891.	3.4	120
28	Functional Correction of CNS Phenotypes in a Lysosomal Storage Disease Model Using Adeno-Associated Virus Type 4 Vectors. <i>Journal of Neuroscience</i> , 2005, 25, 9321-9327.	3.6	110
29	Interaction of the synaptic protein PICK1 (protein interacting with C kinase 1) with the non-voltage gated sodium channels BNC1 (brain Na ⁺ channel 1) and ASIC (acid-sensing ion channel). <i>Biochemical Journal</i> , 2002, 361, 443-450.	3.7	98
30	The <i>Saccharomyces cerevisiae</i> AP-1 Protein Discriminates between Oxidative Stress Elicited by the Oxidants H ₂ O ₂ and Diamide. <i>Journal of Biological Chemistry</i> , 1997, 272, 7908-7914.	3.4	97
31	Acid-sensing ion channel 1: A novel therapeutic target for migraine with aura. <i>Annals of Neurology</i> , 2012, 72, 559-563.	5.3	95
32	Interaction of the synaptic protein PICK1 (protein interacting with C kinase 1) with the non-voltage gated sodium channels BNC1 (brain Na ⁺ channel 1) and ASIC (acid-sensing ion channel). <i>Biochemical Journal</i> , 2002, 361, 443.	3.7	86
33	cAMP-dependent protein kinase phosphorylation of the acid-sensing ion channel-1 regulates its binding to the protein interacting with C-kinase-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2029-2034.	7.1	85
34	Localization and behaviors in null mice suggest that ASIC1 and ASIC2 modulate responses to aversive stimuli. <i>Genes, Brain and Behavior</i> , 2014, 13, 179-194.	2.2	83
35	ASIC3 and ASIC1 Mediate FMRFamide-Related Peptide Enhancement of H ⁺ -Gated Currents in Cultured Dorsal Root Ganglion Neurons. <i>Journal of Neurophysiology</i> , 2003, 89, 2459-2465.	1.8	82
36	Restoring Acid-Sensing Ion Channel-1a in the Amygdala of Knock-Out Mice Rescues Fear Memory But Not Unconditioned Fear Responses. <i>Journal of Neuroscience</i> , 2008, 28, 13738-13741.	3.6	79

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37	Disruption of the non-canonical Wnt gene PRICKLE2 leads to autism-like behaviors with evidence for hippocampal synaptic dysfunction. <i>Molecular Psychiatry</i> , 2013, 18, 1077-1089.	7.9	74
38	Amygdala volume correlates positively with fearfulness in normal healthy girls. <i>Social Cognitive and Affective Neuroscience</i> , 2010, 5, 424-431.	3.0	72
39	Oxidant regulated inter-subunit disulfide bond formation between ASIC1a subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3573-3578.	7.1	66
40	Acid-sensing ion channels: A new target for pain and CNS diseases. <i>Current Opinion in Drug Discovery & Development</i> , 2009, 12, 693-704.	1.9	62
41	Brain abnormalities in bipolar disorder detected by quantitative T1 ρ -mapping. <i>Molecular Psychiatry</i> , 2015, 20, 201-206.	7.9	61
42	Peripheral inflammation during abnormal mood states in bipolar I disorder. <i>Journal of Affective Disorders</i> , 2015, 187, 172-178.	4.1	60
43	The Bed Nucleus of the Stria Terminalis Is Critical for Anxiety-Related Behavior Evoked by CO ₂ and Acidosis. <i>Journal of Neuroscience</i> , 2014, 34, 10247-10255.	3.6	56
44	Neurobiology of panic and pH chemosensation in the brain. <i>Dialogues in Clinical Neuroscience</i> , 2011, 13, 475-483.	3.7	54
45	Impaired sensory processing measured by functional MRI in Bipolar disorder manic and depressed mood states. <i>Brain Imaging and Behavior</i> , 2018, 12, 837-847.	2.1	47
46	Mutational analysis of the <i>Saccharomyces cerevisiae</i> ATP-binding cassette transporter protein Ycf1p. <i>Molecular Microbiology</i> , 1997, 25, 683-694.	2.5	45
47	A human amygdala site that inhibits respiration and elicits apnea in pediatric epilepsy. <i>JCI Insight</i> , 2020, 5, .	5.0	45
48	Functional properties of an isolated .alpha..beta. heterodimeric human placenta insulin-like growth factor 1 receptor complex. <i>Biochemistry</i> , 1988, 27, 3234-3242.	2.5	44
49	Regulator of G-protein signaling 6 (RGS6) promotes anxiety and depression by attenuating serotonin-mediated activation of the 5-HT _{1A} receptor-adenylyl cyclase axis. <i>FASEB Journal</i> , 2014, 28, 1735-1744.	0.5	42
50	The Cytoskeletal Protein β -Actinin Regulates Acid-sensing Ion Channel 1a through a C-terminal Interaction. <i>Journal of Biological Chemistry</i> , 2009, 284, 2697-2705.	3.4	41
51	Impaired motor performance and learning in glia maturation factor-knockout mice. <i>Brain Research</i> , 2004, 1024, 225-232.	2.2	39
52	PRICKLE1 Interaction with SYNAPSIN I Reveals a Role in Autism Spectrum Disorders. <i>PLoS ONE</i> , 2013, 8, e80737.	2.5	39
53	ASIC1A in neurons is critical for fear-related behaviors. <i>Genes, Brain and Behavior</i> , 2017, 16, 745-755.	2.2	36
54	Extinction of Cocaine Seeking Requires a Window of Infralimbic Pyramidal Neuron Activity after Unreinforced Lever Presses. <i>Journal of Neuroscience</i> , 2017, 37, 6075-6086.	3.6	35

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55	Alterations of the cerebellum and basal ganglia in bipolar disorder mood states detected by quantitative T1 ρ -mapping. <i>Bipolar Disorders</i> , 2018, 20, 381-390.	1.9	33
56	Acid-Sensing Ion Channels. <i>Circulation Research</i> , 2019, 125, 907-920.	4.5	29
57	Transient acidosis while retrieving a fear-related memory enhances its lability. <i>ELife</i> , 2017, 6, .	6.0	27
58	Maternal antioxidant blocks programmed cardiovascular and behavioural stress responses in adult mice. <i>Clinical Science</i> , 2011, 121, 427-436.	4.3	26
59	Expressing acid ρ -sensing ion channel 3 in the brain alters acid ρ -evoked currents and impairs fear conditioning. <i>Genes, Brain and Behavior</i> , 2011, 10, 444-450.	2.2	24
60	Attenuation of cocaine seeking in rats via enhancement of infralimbic cortical activity using stable step-function opsins. <i>Psychopharmacology</i> , 2019, 236, 479-490.	3.1	24
61	Neonatal Leptin Administration Alters Regional Brain Volumes and Blocks Neonatal Growth Restriction-Induced Behavioral and Cardiovascular Dysfunction in Male Mice. <i>Pediatric Research</i> , 2011, 69, 406-412.	2.3	21
62	Functional T1 ρ -imaging in Panic Disorder. <i>Biological Psychiatry</i> , 2014, 75, 884-891.	1.3	19
63	Acid-sensing ion channels 1a (ASIC1a) inhibit neuromuscular transmission in female mice. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 306, C396-C406.	4.6	19
64	Stereotactic Atlas-Based Depth Electrode Localization in the Human Amygdala. <i>Stereotactic and Functional Neurosurgery</i> , 2009, 87, 219-228.	1.5	18
65	Quantitative T1 ρ -mapping links the cerebellum and lithium use in bipolar disorder. <i>Molecular Psychiatry</i> , 2015, 20, 149-149.	7.9	17
66	T1 ρ -imaging in premanifest Huntington disease reveals changes associated with disease progression. <i>Movement Disorders</i> , 2015, 30, 1107-1114.	3.9	16
67	Loss of tau and Fyn reduces compensatory effects of MAP2 for tau and reveals a Fyn ρ -independent effect of tau on calcium. <i>Journal of Neuroscience Research</i> , 2019, 97, 1393-1413.	2.9	13
68	Stimulation of Posterior Thalamic Nuclei Induces Photophobic Behavior in Mice. <i>Headache</i> , 2020, 60, 1961-1981.	3.9	13
69	Overexpression of ASIC1A in the nucleus accumbens of rats potentiates cocaine ρ -seeking behavior. <i>Addiction Biology</i> , 2020, 25, e12690.	2.6	12
70	Acid-Sensing Ion Channels (ASICs) and pH in Synapse Physiology. , 2008, , 661-681.		11
71	Eccentricity Mapping of the Human Visual Cortex to Evaluate Temporal Dynamics of Functional T1 ρ -Mapping. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1213-1219.	4.3	11
72	The amygdala differentially regulates defensive behaviors evoked by CO ρ . <i>Behavioural Brain Research</i> , 2020, 377, 112236.	2.2	10

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73	R1-sensitivity to pH and other compounds at clinically accessible spin-locks fields in the presence of proteins. <i>NMR in Biomedicine</i> , 2020, 33, e4217.	2.8	10
74	Drug Abuse and the Simplest Neurotransmitter. <i>ACS Chemical Neuroscience</i> , 2014, 5, 746-748.	3.5	9
75	ASIC1A in the bed nucleus of the stria terminalis mediates TMT-evoked freezing. <i>Frontiers in Neuroscience</i> , 2015, 9, 239.	2.8	9
76	Relationship altered between functional T1-and BOLD signals in bipolar disorder. <i>Brain and Behavior</i> , 2017, 7, e00802.	2.2	9
77	Evaluation of activity-dependent functional pH and T1-response in the visual cortex. <i>NeuroImage</i> , 2014, 95, 336-343.	4.2	8
78	A mouse model of Bardet-Biedl Syndrome has impaired fear memory, which is rescued by lithium treatment. <i>PLoS Genetics</i> , 2021, 17, e1009484.	3.5	8
79	Distinct patterns of altered quantitative T1-and functional BOLD response associated with history of suicide attempts in bipolar disorder. <i>Brain Imaging and Behavior</i> , 2021, , 1.	2.1	8
80	Metabolic abnormalities in the basal ganglia and cerebellum in bipolar disorder: A multi-modal MR study. <i>Journal of Affective Disorders</i> , 2022, 301, 390-399.	4.1	8
81	The non-canonical Wnt ligand Wnt5a rescues morphological deficits in Prickle2-deficient hippocampal neurons. <i>Molecular Psychiatry</i> , 2013, 18, 1049-1049.	7.9	7
82	Ca ²⁺ -Binding Protein 1 Regulates Hippocampal-dependent Memory and Synaptic Plasticity. <i>Neuroscience</i> , 2018, 380, 90-102.	2.3	7
83	Rapid acquisition strategy for functional T1-mapping of the brain. <i>Magnetic Resonance Imaging</i> , 2014, 32, 1067-1077.	1.8	6
84	Proton Exchange Magnetic Resonance Imaging: Current and Future Applications in Psychiatric Research. <i>Frontiers in Psychiatry</i> , 2020, 11, 532606.	2.6	6
85	A novel role for acid-sensing ion channels in Pavlovian reward conditioning. <i>Genes, Brain and Behavior</i> , 2019, 18, e12531.	2.2	5
86	Histologic examination of the eye of acid-sensing ion channel 1a knockout mice. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , 2010, 2, 69-72.	0.8	5
87	Comparison of T ₁ -Rho MRI, Glucose Metabolism, and Amyloid Burden Across the Cognitive Spectrum: A Pilot Study. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2020, 32, 352-361.	1.8	4
88	Post-acquisition CO ₂ Inhalation Enhances Fear Memory and Depends on ASIC1A. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 767426.	2.0	2
89	Population Shape Collapse in Large Deformation Registration of MR Brain Images. , 2016, , .		1
90	Posterior Fossa Sub-Arachnoid Cysts Observed in Patients with Bipolar Disorder: a Retrospective Cohort Study. <i>Cerebellum</i> , 2022, , .	2.5	1

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91	Moderate Intensity Exercise in Pre-manifest Huntington's Disease: Results of a 6 months Trial.. , 2021, 2, 6-36.		0