

Andrew J Moorhouse

List of Publications by Year in descending order

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63
papers

5,274
citations

185998

28
h-index

138251

58
g-index

65
all docs

65
docs citations

65
times ranked

6242
citing authors

#	ARTICLE	IF	CITATIONS
1	Resting Microglia Directly Monitor the Functional State of Synapses <i>In Vivo</i> and Determine the Fate of Ischemic Terminals. <i>Journal of Neuroscience</i> , 2009, 29, 3974-3980.	1.7	1,376
2	Microglia contact induces synapse formation in developing somatosensory cortex. <i>Nature Communications</i> , 2016, 7, 12540.	5.8	495
3	Dual microglia effects on blood brain barrier permeability induced by systemic inflammation. <i>Nature Communications</i> , 2019, 10, 5816.	5.8	492
4	Microglia: actively surveying and shaping neuronal circuit structure and function. <i>Trends in Neurosciences</i> , 2013, 36, 209-217.	4.2	403
5	Ligand-gated ion channels: mechanisms underlying ion selectivity. <i>Progress in Biophysics and Molecular Biology</i> , 2004, 86, 161-204.	1.4	175
6	Early Changes in KCC2 Phosphorylation in Response to Neuronal Stress Result in Functional Downregulation. <i>Journal of Neuroscience</i> , 2007, 27, 1642-1650.	1.7	162
7	Promiscuous coupling between the sulphonylurea receptor and inwardly rectifying potassium channels. <i>Nature</i> , 1996, 379, 545-548.	13.7	156
8	Techniques: Applications of the nerveâ€˜bouton preparation in neuropharmacology. <i>Trends in Pharmacological Sciences</i> , 2003, 24, 44-47.	4.0	153
9	Cortical astrocytes rewire somatosensory cortical circuits for peripheral neuropathic pain. <i>Journal of Clinical Investigation</i> , 2016, 126, 1983-1997.	3.9	146
10	Microglia Enhance Synapse Activity to Promote Local Network Synchronization. <i>ENeuro</i> , 2018, 5, ENEURO.0088-18.2018.	0.9	134
11	Microglia and synapse interactions: fine tuning neural circuits and candidate molecules. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 70.	1.8	115
12	M2 Pore Mutations Convert the Glycine Receptor Channel from Being Anion- to Cation-Selective. <i>Biophysical Journal</i> , 2000, 79, 247-259.	0.2	112
13	Functions of microglia in the central nervous system â€˜ beyond the immune response. <i>Neuron Glia Biology</i> , 2011, 7, 47-53.	2.0	105
14	Microglial Contact Prevents Excess Depolarization and Rescues Neurons from Excitotoxicity. <i>ENeuro</i> , 2016, 3, ENEURO.0004-16.2016.	0.9	105
15	Cation-selective Mutations in the M2 Domain of the Inhibitory Glycine Receptor Channel Reveal Determinants of Ion-Charge Selectivity. <i>Journal of General Physiology</i> , 2002, 119, 393-410.	0.9	89
16	Clustering of Neuronal K ⁺ -Cl ⁻ Cotransporters in Lipid Rafts by Tyrosine Phosphorylation. <i>Journal of Biological Chemistry</i> , 2009, 284, 27980-27988.	1.6	87
17	Maternal immune activation induces sustained changes in fetal microglia motility. <i>Scientific Reports</i> , 2020, 10, 21378.	1.6	70
18	The sulphonylurea receptor confers diazoxide sensitivity on the inwardly rectifying K ⁺ channel Kir6.1 expressed in human embryonic kidney cells.. <i>Journal of Physiology</i> , 1996, 494, 709-714.	1.3	68

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19	Activation of presynaptic glycine receptors facilitates glycine release from presynaptic terminals synapsing onto rat spinal sacral dorsal commissural nucleus neurons. <i>Journal of Physiology</i> , 2003, 550, 373-383.	1.3	59
20	Characterization of the Effects of Charged Residues in the Intracellular Loop on Ion Permeation in $\hat{1}\pm 1$ Glycine Receptor Channels. <i>Journal of Biological Chemistry</i> , 2009, 284, 2023-2030.	1.6	56
21	Motor learning requires myelination to reduce asynchrony and spontaneity in neural activity. <i>Glia</i> , 2020, 68, 193-210.	2.5	55
22	The Startle Disease Mutation Q266H, in the Second Transmembrane Domain of the Human Glycine Receptor, Impairs Channel Gating. <i>Molecular Pharmacology</i> , 1999, 55, 386-395.	1.0	47
23	Single Channel Analysis of Conductance and Rectification in Cation-selective, Mutant Glycine Receptor Channels. <i>Journal of General Physiology</i> , 2002, 119, 411-425.	0.9	44
24	Enhanced GABAergic Activity in the Mouse Primary Somatosensory Cortex Is Insufficient to Alleviate Chronic Pain Behavior with Reduced Expression of Neuronal Potassium \hat{e} Chloride Cotransporter. <i>Journal of Neuroscience</i> , 2012, 32, 16552-16559.	1.7	38
25	GABAB receptor transduction mechanisms, and cross-talk between protein kinases A and C, in GABAergic terminals synapsing onto neurons of the rat nucleus basalis of Meynert. <i>Journal of Physiology</i> , 2003, 551, 263-276.	1.3	35
26	Alternative Splicing of the TRPC3 Ion Channel Calmodulin/IP ₃ Receptor-Binding Domain in the Hindbrain Enhances Cation Flux. <i>Journal of Neuroscience</i> , 2012, 32, 11414-11423.	1.7	34
27	Pain induces stable, active microcircuits in the somatosensory cortex that provide a therapeutic target. <i>Science Advances</i> , 2021, 7, .	4.7	34
28	Differential modulation of evoked and spontaneous glycine release from rat spinal cord glycinergic terminals by the cyclic AMP/protein kinase A transduction cascade. <i>Journal of Neurochemistry</i> , 2004, 91, 657-666.	2.1	32
29	Cortical astrocytes prime the induction of spine plasticity and mirror image pain. <i>Pain</i> , 2018, 159, 1592-1606.	2.0	32
30	The contribution of proline 250 (P-2 \hat{e}) to pore diameter and ion selectivity in the human glycine receptor channel. <i>Neuroscience Letters</i> , 2003, 351, 196-200.	1.0	30
31	Heteromeric channel formation and Ca ₂₊ -free media reduce the toxic effect of the weaver Kir3.2 allele. <i>FEBS Letters</i> , 1996, 390, 253-257.	1.3	28
32	Charged Residues at the 2 \hat{e} Position of Human GABAC $\hat{1}$ Receptors Invert Ion Selectivity and Influence Open State Probability. <i>Journal of Biological Chemistry</i> , 2004, 279, 54153-54160.	1.6	27
33	IP ₃ -Gated Channels and their Occurrence Relative to CNG Channels in the Soma and Dendritic Knob of Rat Olfactory Receptor Neurons. <i>Journal of Membrane Biology</i> , 2001, 181, 91-105.	1.0	24
34	Anion-Cation Permeability Correlates with Hydrated Counterion Size in Glycine Receptor Channels. <i>Biophysical Journal</i> , 2008, 95, 4698-4715.	0.2	23
35	Direct effects of tolbutamide on mitochondrial function, intracellular Ca ²⁺ and exocytosis in pancreatic I ² -cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1999, 437, 577-588.	1.3	22
36	A patch-clamp investigation of membrane currents in a novel mammalian retinal ganglion cell line. <i>Brain Research</i> , 2004, 1003, 205-208.	1.1	21

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37	Overexpression of neuronal K ⁺ Cl ⁻ co-transporter enhances dendritic spine plasticity and motor learning. <i>Journal of Physiological Sciences</i> , 2019, 69, 453-463.	0.9	17
38	Focal Ischaemic Infarcts Expand Faster in Cerebellar Cortex than Cerebral Cortex in a Mouse Photothrombotic Stroke Model. <i>Translational Stroke Research</i> , 2018, 9, 643-653.	2.3	16
39	An optimised 3 Å KCl salt-bridge technique used to measure and validate theoretical liquid junction potential values in patch-clamping and electrophysiology. <i>European Biophysics Journal</i> , 2013, 42, 631-646.	1.2	15
40	Controlled activation of cortical astrocytes modulates neuropathic pain-like behaviour. <i>Nature Communications</i> , 2022, 13, .	5.8	14
41	A Single P-loop Glutamate Point Mutation to either Lysine or Arginine Switches the Cation/Anion Selectivity of the CNGA2 Channel. <i>Journal of General Physiology</i> , 2006, 127, 375-389.	0.9	13
42	Very Negative Potential for Half-inactivation of, and Effects of Anions on, Voltage-dependent Sodium Currents in Acutely Isolated Rat Olfactory Receptor Neurons. <i>Journal of Membrane Biology</i> , 2000, 175, 123-138.	1.0	11
43	Depolarizing shift in the GABA-induced current reversal potential by lidocaine hydrochloride. <i>Brain Research</i> , 2010, 1345, 19-27.	1.1	9
44	Physiological Implications of Microglia-Synapse Interactions. <i>Methods in Molecular Biology</i> , 2019, 2034, 69-80.	0.4	9
45	Global transgenic upregulation of KCC2 confers enhanced diazepam efficacy in treating sustained seizures. <i>Epilepsia</i> , 2022, 63, .	2.6	8
46	GLYCINE RECEPTORS: WHAT GETS IN AND WHY?. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1999, 26, 935-936.	0.9	7
47	IP3-Gated Channels and their Occurrence Relative to CNG Channels in the Soma and Dendritic Knob of Rat Olfactory Receptor Neurons. <i>Journal of Membrane Biology</i> , 2001, 181, 91-105.	1.0	7
48	Activation-Dependent Rapid Postsynaptic Clustering of Glycine Receptors in Mature Spinal Cord Neurons. <i>ENeuro</i> , 2017, 4, ENEURO.0194-16.2017.	0.9	7
49	Ion Permeation and Selectivity of Wild-Type Recombinant Rat CNG (rOCNC1) Channels Expressed in HEK293 Cells. <i>Journal of Membrane Biology</i> , 2000, 178, 137-150.	1.0	6
50	External divalent cations increase anion/cation permeability ratio in glycine receptor channels. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 460, 131-152.	1.3	6
51	In Vivo Two-Photon Imaging of Microglial Synapse Contacts. <i>Methods in Molecular Biology</i> , 2019, 2034, 281-286.	0.4	6
52	Activity-Dependent Global Downscaling of Evoked Neurotransmitter Release across Glutamatergic Inputs in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2020, 40, 8025-8041.	1.7	6
53	Measurement of the limiting equivalent conductivities and mobilities of the most prevalent ionic species of EGTA (EGTA2 ⁻ and EGTA3 ⁻) for use in electrophysiological experiments. <i>Journal of Neuroscience Methods</i> , 1999, 89, 41-47.	1.3	5
54	Anomalous mole-fraction effects in recombinant and native cyclic nucleotide-gated channels in rat olfactory receptor neurons. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1395-1403.	1.2	5

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55	Zinc modulation of glycine receptors in acutely isolated rat CA3 neurons. Life Sciences, 2008, 83, 149-154.	2.0	5
56	Further analysis of counterion permeation through anion-selective glycine receptor channels. Channels, 2010, 4, 142-149.	1.5	5
57	Membrane Potential: Concepts. , 2016, , 218-236.		5
58	Perforated Whole-Cell Patch-Clamp Technique: A User's Guide. Springer Protocols, 2012, , 71-83.	0.1	4
59	Mutation of the pore glutamate affects both cytoplasmic and external dequalinium block in the rat olfactory CNGA2 channel. European Biophysics Journal, 2005, 34, 442-453.	1.2	3
60	Cellular Mechanisms of Neuronal Cl ⁻ Homeostasis and its Modulation by Neuronal Injury. , 2011, , 123-134.		0
61	Making light work of fine-tuning channelrhodopsins. Journal of Biological Chemistry, 2019, 294, 3822-3823.	1.6	0
62	Biophysics of CNG Ion Channels. Springer Series in Biophysics, 2008, , 175-200.	0.4	0
63	Anion selectivity and counterion cation permeation in glycine receptor channels. FASEB Journal, 2012, 26, 901.2.	0.2	0