Paul Adams

List of Publications by Year
in descending order

55 papers	7,887 citations	101543 36 h-index	168389 53 g-index
55 all docs	55 docs citations	55 times ranked	2566 citing authors

#	Article	IF	Citations
1	Muscarinic suppression of a novel voltage-sensitive K+ current in a vertebrate neurone. Nature, 1980, 283, 673-676.	27.8	1,321
2	Voltage-clamp analysis of muscarinic excitation in hippocampal neurons. Brain Research, 1982, 250, 71-92.	2.2	1,007
3	Calcium-dependent current generating the afterhyperpolarization of hippocampal neurons. Journal of Neurophysiology, 1986, 55, 1268-1282.	1.8	527
4	Mâ€currents and other potassium currents in bullfrog sympathetic neurones. Journal of Physiology, 1982, 330, 537-572.	2.9	487
5	Intracellular Ca2+ activates a fast voltage-sensitive K+ current in vertebrate sympathetic neurones. Nature, 1982, 296, 746-749.	27.8	401
6	Two distinct Ca-dependent K currents in bullfrog sympathetic ganglion cells.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 3040-3044.	7.1	381
7	Subcellular calcium transients visualized by confocal microscopy in a voltage-clamped vertebrate neuron. Science, 1990, 247, 858-862.	12.6	335
8	Drug blockade of open endâ€plate channels.. Journal of Physiology, 1976, 260, 531-552.	2.9	310
9	Actions of gammaâ€aminobutyric acid on sympathetic ganglion cells.. Journal of Physiology, 1975, 250, 85-120.	2.9	264
10	Voltage jump analysis of procaine action at frog endâ€plate. Journal of Physiology, 1977, 268, 291-318.	2.9	221
11	Acetylcholine receptor kinetics. Journal of Membrane Biology, 1981, 58, 161-174.	2.1	208
12	BIOCHEMICAL ASPECTS OF DEVELOPMENT AND AGEING OF HUMAN LUMBAR INTERVERTEBRAL DISCS. Rheumatology, 1977, 16, 22-29.	1.9	165
13	Decamethonium both opens and blocks endplate channels.. Proceedings of the National Academy of Sciences of the United States of America, 1978, 75, 2994-2998.	7.1	156
14	N-methyl-D-aspartate receptors contribute to excitatory postsynaptic potentials of cat lateral geniculate neurons recorded in thalamic slices.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 4548-4552.	7.1	153
15	Control of calcium current in rat sympathetic neurons by norepinephrine. Brain Research, 1982, 244, 135-144.	2.2	147
16	Synaptic inhibition of the Mâ€current: slow excitatory postâ€synaptic potential mechanism in bullfrog sympathetic neurones.. Journal of Physiology, 1982, 332, 263-272.	2.9	137
17	A study of desensitization using voltage clamp. Pflugers Archiv European Journal of Physiology, 1975, 360, 135-144.	2.8	104
18	Substance P inhibits the Mâ€current in bullfrog sympathetic neurones. British Journal of Pharmacology, 1983, 79, 330-333.	5.4	103

#	Article	IF	Citations
19	Release of intracellular calcium and modulation of membrane currents by caffeine in bullâ€frog sympathetic neurones.. Journal of Physiology, 1992, 445, 515-535.	2.9	99
20	Modulation of M-current by intracellular Ca2+. Neuron, 1991, 6, 533-545.	8.1	94
21	Why do barium ions imitate acetylcholine?. Brain Research, 1981, 206, 244-250.	2.2	85
22	A method for the rapid exchange of solutions bathing excised membrane patches. Biophysical Journal, 1986, 50, 987-992.	0.5	85
23	Visualization of Calcium Influx Through Channels That Shape the Burst and Tonic Firing Modes of Thalamic Relay Cells. Journal of Neurophysiology, 1997, 77, 2816-2825.	1.8	84
24	An analysis of the dose-response curve at voltage-clamped frog-endplates. Pflugers Archiv European Journal of Physiology, 1975, 360, 145-153.	2.8	79
25	Hebb and Darwin. Journal of Theoretical Biology, 1998, 195, 419-438.	1.7	75
26	Ca-activated potassium current in vertebrate sympathetic neurones. Cell Calcium, 1983, 4, 407-420.	2.4	66
27	Teleost luteinizing hormone-releasing hormone: action on bullfrog sympathetic ganglia is consistent with role as neurotransmitter. Journal of Neuroscience, 1984, 4, 420-429.	3.6	65
28	Regulation of M current by intracellular calcium in bullfrog sympathetic ganglion neurons. Journal of Neuroscience, 1994, 14, 3487-3499.	3.6	60
29	Voltage-dependent conductances of vertebrate neurones. Trends in Neurosciences, 1982, 5, 116-119.	8.6	59
30	Relaxation experiments using bathâ€applied suberyldicholine.. Journal of Physiology, 1977, 268, 271-289.	2.9	57
31	Quinacrine (mepacrine) action at frog endâ€plate.. Journal of Physiology, 1980, 306, 261-281.	2.9	55
32	Voltage-sensitive K-currents in sympathetic neurons and their modulation by neurotransmitters. Journal of the Autonomic Nervous System, 1982, 6, 23-35.	1.9	53
33	Effects of phorbol dibutyrate on M currents and M current inhibition in bullfrog sympathetic neurons. Cellular and Molecular Neurobiology, 1987, 7, 255-269.	3.3	51
34	A G Protein Mediates the Inhibition of the Voltage-Dependent Potassium M Current by Muscarine, LHRH, Substance P and UTP in Bullfrog Sympathetic Neurons. European Journal of Neuroscience, 1989, 1, 529-542.	2.6	51
35	A comparison of currentâ€voltage relations for full and partial agonists.. Journal of Physiology, 1978, 283, 621-644.	2.9	46
36	Spontaneous miniature outward currents in cultured bullfrog neurons. Brain Research, 1987, 401, 331-339.	2.2	43

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37	Synaptic Darwinism and neocortical function. Neurocomputing, 2002, 42, 197-214.	5.9	36
38	Bradykinin inhibits a potassium M-like current in rat pheochromocytoma PC12 cells. FEBS Letters, 1989, 255, 42-46.	2.8	31
39	Voltage dependence of agonist responses at voltage-clamped frog endplates. Pflugers Archiv European Journal of Physiology, 1976, 361, 145-151.	2.8	29
40	Interaction of a fluorescent probe with acetylcholine-activated synaptic membrane. Nature, 1977, 269, 609-611.	27.8	26
41	Multiple kinetic states underlying macroscopic M-currents in bullfrog sympathetic neurons. Proceedings of the Royal Society B: Biological Sciences, 1992, 248, 207-214.	2.6	25
42	The platonic neuron gets the hots. Current Biology, 1992, 2, 625-627.	3.9	22
43	Hebbian errors in learning: An analysis using the Oja model. Journal of Theoretical Biology, 2009, 258, 489-501.	1.7	19
44	Drug interactions at the motor endplate. Pflugers Archiv European Journal of Physiology, 1975, 360, 155-164.	2.8	18
45	A new interpretation of thalamocortical circuitry. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 1767-1779.	4.0	15
46	Hebbian crosstalk prevents nonlinear unsupervised learning. Frontiers in Computational Neuroscience, 2009, 3, 11.	2.1	8
47	A COMPARISON OF THE TIME COURSE OF EXCITATION AND INHIBITION BY IONTOPHORETIC DECAMETHONIUM IN FROG ENDPLATE. British Journal of Pharmacology, 1976, 57, 59-65.	5.4	5
48	Implications of synaptic digitisation and error for neocortical function. Neurocomputing, 2000, 32-33, 673-678.	5.9	5
49	Hebbian learning from higher-order correlations requires crosstalk minimization. Biological Cybernetics, 2014, 108, 405-422.	1.3	4
50	The discovery of the sub-threshold currents M and Q/H in central neurons. Brain Research, 2016, 1645, 38-41.	2.2	4
51	Hebbian crosstalk and input segregation. Journal of Theoretical Biology, 2013, 337, 133-149.	1.7	3
52	Ion movements in endplate channels. Brain Research Bulletin, 1979, 4, 147-148.	3.0	2
53	Modification by procaine of membrane ans fluorescence changes induced by electrical stimulation of nerve and muscle fibres. Biochemical and Biophysical Research Communications, 1975, 65, 196-204.	2.1	1
54	Molecular aspects of synaptic transmission. Trends in Neurosciences, 1978, 1, 141-143.	8.6	0

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55	Peptides and Slow Synaptic Potentials. Current Topics in Membranes and Transport, 1987, , 3-29.	0.6	0