

Paul Adams

List of Publications by Year in descending order

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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	The discovery of the sub-threshold currents M and Q/H in central neurons. <i>Brain Research</i> , 2016, 1645, 38-41.	2.2	4
2	Hebbian learning from higher-order correlations requires crosstalk minimization. <i>Biological Cybernetics</i> , 2014, 108, 405-422.	1.3	4
3	Hebbian crosstalk and input segregation. <i>Journal of Theoretical Biology</i> , 2013, 337, 133-149.	1.7	3
4	Hebbian crosstalk prevents nonlinear unsupervised learning. <i>Frontiers in Computational Neuroscience</i> , 2009, 3, 11.	2.1	8
5	Hebbian errors in learning: An analysis using the Oja model. <i>Journal of Theoretical Biology</i> , 2009, 258, 489-501.	1.7	19
6	A new interpretation of thalamocortical circuitry. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 1767-1779.	4.0	15
7	Synaptic Darwinism and neocortical function. <i>Neurocomputing</i> , 2002, 42, 197-214.	5.9	36
8	Implications of synaptic digitisation and error for neocortical function. <i>Neurocomputing</i> , 2000, 32-33, 673-678.	5.9	5
9	Hebb and Darwin. <i>Journal of Theoretical Biology</i> , 1998, 195, 419-438.	1.7	75
10	Visualization of Calcium Influx Through Channels That Shape the Burst and Tonic Firing Modes of Thalamic Relay Cells. <i>Journal of Neurophysiology</i> , 1997, 77, 2816-2825.	1.8	84
11	Regulation of M current by intracellular calcium in bullfrog sympathetic ganglion neurons. <i>Journal of Neuroscience</i> , 1994, 14, 3487-3499.	3.6	60
12	Release of intracellular calcium and modulation of membrane currents by caffeine in bullfrog sympathetic neurones. <i>Journal of Physiology</i> , 1992, 445, 515-535.	2.9	99
13	Multiple kinetic states underlying macroscopic M-currents in bullfrog sympathetic neurons. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1992, 248, 207-214.	2.6	25
14	The platonic neuron gets the hots. <i>Current Biology</i> , 1992, 2, 625-627.	3.9	22
15	Modulation of M-current by intracellular Ca ²⁺ . <i>Neuron</i> , 1991, 6, 533-545.	8.1	94
16	N-methyl-D-aspartate receptors contribute to excitatory postsynaptic potentials of cat lateral geniculate neurons recorded in thalamic slices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 4548-4552.	7.1	153
17	Subcellular calcium transients visualized by confocal microscopy in a voltage-clamped vertebrate neuron. <i>Science</i> , 1990, 247, 858-862.	12.6	335
18	A G Protein Mediates the Inhibition of the Voltage-Dependent Potassium M Current by Muscarine, LHRH, Substance P and UTP in Bullfrog Sympathetic Neurons. <i>European Journal of Neuroscience</i> , 1989, 1, 529-542.	2.6	51

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19	Bradykinin inhibits a potassium M-like current in rat pheochromocytoma PC12 cells. FEBS Letters, 1989, 255, 42-46.	2.8	31
20	Peptides and Slow Synaptic Potentials. Current Topics in Membranes and Transport, 1987, , 3-29.	0.6	0
21	Spontaneous miniature outward currents in cultured bullfrog neurons. Brain Research, 1987, 401, 331-339.	2.2	43
22	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
23	A method for the rapid exchange of solutions bathing excised membrane patches. Biophysical Journal, 1986, 50, 987-992.	0.5	85
24	Calcium-dependent current generating the afterhyperpolarization of hippocampal neurons. Journal of Neurophysiology, 1986, 55, 1268-1282.	1.8	527
25	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
26	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
27	Ca-activated potassium current in vertebrate sympathetic neurones. Cell Calcium, 1983, 4, 407-420.	2.4	66
28	Substance P inhibits the M current in bullfrog sympathetic neurones. British Journal of Pharmacology, 1983, 79, 330-333.	5.4	103
29	M currents and other potassium currents in bullfrog sympathetic neurones. Journal of Physiology, 1982, 330, 537-572.	2.9	487
30	Synaptic inhibition of the M current: slow excitatory postsynaptic potential mechanism in bullfrog sympathetic neurones.. Journal of Physiology, 1982, 332, 263-272.	2.9	137
31	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
32	Control of calcium current in rat sympathetic neurons by norepinephrine. Brain Research, 1982, 244, 135-144.	2.2	147
33	Voltage-clamp analysis of muscarinic excitation in hippocampal neurons. Brain Research, 1982, 250, 71-92.	2.2	1,007
34	Voltage-dependent conductances of vertebrate neurones. Trends in Neurosciences, 1982, 5, 116-119.	8.6	59
35	Intracellular Ca ²⁺ activates a fast voltage-sensitive K ⁺ current in vertebrate sympathetic neurones. Nature, 1982, 296, 746-749.	27.8	401
36	Why do barium ions imitate acetylcholine?. Brain Research, 1981, 206, 244-250.	2.2	85

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37	Acetylcholine receptor kinetics. <i>Journal of Membrane Biology</i> , 1981, 58, 161-174.	2.1	208
38	Quinacrine (mepacrine) action at frog endplate. <i>Journal of Physiology</i> , 1980, 306, 261-281.	2.9	55
39	Muscarinic suppression of a novel voltage-sensitive K ⁺ current in a vertebrate neurone. <i>Nature</i> , 1980, 283, 673-676.	27.8	1,321
40	Ion movements in endplate channels. <i>Brain Research Bulletin</i> , 1979, 4, 147-148.	3.0	2
41	Molecular aspects of synaptic transmission. <i>Trends in Neurosciences</i> , 1978, 1, 141-143.	8.6	0
42	A comparison of current-voltage relations for full and partial agonists. <i>Journal of Physiology</i> , 1978, 283, 621-644.	2.9	46
43	Decamethonium both opens and blocks endplate channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1978, 75, 2994-2998.	7.1	156
44	Voltage jump analysis of procaine action at frog endplate. <i>Journal of Physiology</i> , 1977, 268, 291-318.	2.9	221
45	Relaxation experiments using bath-applied suberyldicholine. <i>Journal of Physiology</i> , 1977, 268, 271-289.	2.9	57
46	BIOCHEMICAL ASPECTS OF DEVELOPMENT AND AGEING OF HUMAN LUMBAR INTERVERTEBRAL DISCS. <i>Rheumatology</i> , 1977, 16, 22-29.	1.9	165
47	Interaction of a fluorescent probe with acetylcholine-activated synaptic membrane. <i>Nature</i> , 1977, 269, 609-611.	27.8	26
48	A COMPARISON OF THE TIME COURSE OF EXCITATION AND INHIBITION BY IONTOPHORETIC DECAMETHONIUM IN FROG ENDPLATE. <i>British Journal of Pharmacology</i> , 1976, 57, 59-65.	5.4	5
49	Drug blockade of open endplate channels. <i>Journal of Physiology</i> , 1976, 260, 531-552.	2.9	310
50	Voltage dependence of agonist responses at voltage-clamped frog endplates. <i>Pflugers Archiv European Journal of Physiology</i> , 1976, 361, 145-151.	2.8	29
51	Actions of gamma-aminobutyric acid on sympathetic ganglion cells. <i>Journal of Physiology</i> , 1975, 250, 85-120.	2.9	264
52	A study of desensitization using voltage clamp. <i>Pflugers Archiv European Journal of Physiology</i> , 1975, 360, 135-144.	2.8	104
53	An analysis of the dose-response curve at voltage-clamped frog-endplates. <i>Pflugers Archiv European Journal of Physiology</i> , 1975, 360, 145-153.	2.8	79
54	Drug interactions at the motor endplate. <i>Pflugers Archiv European Journal of Physiology</i> , 1975, 360, 155-164.	2.8	18

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55	Modification by procaine of membrane and fluorescence changes induced by electrical stimulation of nerve and muscle fibres. <i>Biochemical and Biophysical Research Communications</i> , 1975, 65, 196-204.	2.1	1