

Paul Adams

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

7,130
citations

36
h-index

55
g-index

55
ext. papers

7,393
ext. citations

8
avg, IF

5.52
L-index

#	Paper	IF	Citations
55	Muscarinic suppression of a novel voltage-sensitive K ⁺ current in a vertebrate neurone. <i>Nature</i> , 1980 , 283, 673-6	50.4	1158
54	Voltage-clamp analysis of muscarinic excitation in hippocampal neurons. <i>Brain Research</i> , 1982 , 250, 71-93	3.7	915
53	Calcium-dependent current generating the afterhyperpolarization of hippocampal neurons. <i>Journal of Neurophysiology</i> , 1986 , 55, 1268-82	3.2	494
52	M-currents and other potassium currents in bullfrog sympathetic neurones. <i>Journal of Physiology</i> , 1982 , 330, 537-72	3.9	425
51	Intracellular Ca ²⁺ activates a fast voltage-sensitive K ⁺ current in vertebrate sympathetic neurones. <i>Nature</i> , 1982 , 296, 746-9	50.4	364
50	Two distinct Ca-dependent K currents in bullfrog sympathetic ganglion cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 3040-4	11.5	332
49	Subcellular calcium transients visualized by confocal microscopy in a voltage-clamped vertebrate neuron. <i>Science</i> , 1990 , 247, 858-62	33.3	323
48	Drug blockade of open end-plate channels. <i>Journal of Physiology</i> , 1976 , 260, 531-52	3.9	276
47	Actions of gamma-aminobutyric acid on sympathetic ganglion cells. <i>Journal of Physiology</i> , 1975 , 250, 85-120	3.9	245
46	Voltage jump analysis of procaine action at frog end-plate. <i>Journal of Physiology</i> , 1977 , 268, 291-318	3.9	203
45	Acetylcholine receptor kinetics. <i>Journal of Membrane Biology</i> , 1981 , 58, 161-74	2.3	190
44	Decamethonium both opens and blocks endplate channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1978 , 75, 2994-8	11.5	143
43	Control of calcium current in rat sympathetic neurons by norepinephrine. <i>Brain Research</i> , 1982 , 244, 135-44	3.7	141
42	Biochemical aspects of development and ageing of human lumbar intervertebral discs. <i>Rheumatology</i> , 1977 , 16, 22-9	3.9	139
41	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, 4548-52	11.5	136
40	Synaptic inhibition of the M-current: slow excitatory post-synaptic potential mechanism in bullfrog sympathetic neurones. <i>Journal of Physiology</i> , 1982 , 332, 263-72	3.9	109
39	A study of desensitization using voltage clamp. <i>Pflugers Archiv European Journal of Physiology</i> , 1975 , 360, 135-44	4.6	96

38	Substance P inhibits the M-current in bullfrog sympathetic neurones. <i>British Journal of Pharmacology</i> , 1983 , 79, 330-3	8.6	94
37	Release of intracellular calcium and modulation of membrane currents by caffeine in bull-frog sympathetic neurones. <i>Journal of Physiology</i> , 1992 , 445, 515-35	3.9	93
36	Modulation of M-current by intracellular Ca ²⁺ . <i>Neuron</i> , 1991 , 6, 533-45	13.9	88
35	Who do barium ions imitate acetylcholine?. <i>Brain Research</i> , 1981 , 206, 244-50	3.7	83
34	A method for the rapid exchange of solutions bathing excised membrane patches. <i>Biophysical Journal</i> , 1986 , 50, 987-92	2.9	79
33	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, 2816-25	3.2	78
32	An analysis of the dose-response curve at voltage-clamped frog-endplates. <i>Pflugers Archiv European Journal of Physiology</i> , 1975 , 360, 145-53	4.6	72
31	Hebb and Darwin. <i>Journal of Theoretical Biology</i> , 1998 , 195, 419-38	2.3	69
30	Ca-activated potassium current in vertebrate sympathetic neurons. <i>Cell Calcium</i> , 1983 , 4, 407-20	4	64
29	Teleost luteinizing hormone-releasing hormone: action on bullfrog sympathetic ganglia is consistent with role as neurotransmitter. <i>Journal of Neuroscience</i> , 1984 , 4, 420-9	6.6	61
28	Regulation of M current by intracellular calcium in bullfrog sympathetic ganglion neurons. <i>Journal of Neuroscience</i> , 1994 , 14, 3487-99	6.6	57
27	Quinacrine (mepacrine) action at frog end-plate. <i>Journal of Physiology</i> , 1980 , 306, 261-81	3.9	53
26	Relaxation experiments using bath-applied suberyldicholine. <i>Journal of Physiology</i> , 1977 , 268, 271-89	3.9	50
25	Effects of phorbol dibutyrate on M currents and M current inhibition in bullfrog sympathetic neurons. <i>Cellular and Molecular Neurobiology</i> , 1987 , 7, 255-69	4.6	49
24	Voltage-sensitive K-currents in sympathetic neurons and their modulation by neurotransmitters. <i>Journal of the Autonomic Nervous System</i> , 1982 , 6, 23-35		49
23	Voltage-dependent conductances of vertebrate neurones. <i>Trends in Neurosciences</i> , 1982 , 5, 116-119	13.3	48
22	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	3.5	45
21	A comparison of current-voltage relations for full and partial agonists. <i>Journal of Physiology</i> , 1978 , 283, 621-44	3.9	43

20	Spontaneous miniature outward currents in cultured bullfrog neurons. <i>Brain Research</i> , 1987 , 401, 331-9	3.7	42
19	Synaptic Darwinism and neocortical function. <i>Neurocomputing</i> , 2002 , 42, 197-214	5.4	36
18	Bradykinin inhibits a potassium M-like current in rat pheochromocytoma PC12 cells. <i>FEBS Letters</i> , 1989 , 255, 42-6	3.8	31
17	Voltage dependence of agonist responses at voltage-clamped frog endplates. <i>Pflugers Archiv European Journal of Physiology</i> , 1976 , 361, 145-51	4.6	27
16	Interaction of a fluorescent probe with acetylcholine-activated synaptic membrane. <i>Nature</i> , 1977 , 269, 609-11	50.4	24
15	The platonic neuron gets the hots. <i>Current Biology</i> , 1992 , 2, 625-7	6.3	19
14	Multiple kinetic states underlying macroscopic M-currents in bullfrog sympathetic neurons. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1992 , 248, 207-14	4.4	18
13	Hebbian errors in learning: an analysis using the Oja model. <i>Journal of Theoretical Biology</i> , 2009 , 258, 489-501	2.3	16
12	Drug interactions at the motor endplate. <i>Pflugers Archiv European Journal of Physiology</i> , 1975 , 360, 155-64	4.6	13
11	A new interpretation of thalamocortical circuitry. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002 , 357, 1767-79	5.8	12
10	Hebbian crosstalk prevents nonlinear unsupervised learning. <i>Frontiers in Computational Neuroscience</i> , 2009 , 3, 11	3.5	8
9	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	8.6	5
8	Implications of synaptic digitisation and error for neocortical function. <i>Neurocomputing</i> , 2000 , 32-33, 673-678	5.4	4
7	Hebbian learning from higher-order correlations requires crosstalk minimization. <i>Biological Cybernetics</i> , 2014 , 108, 405-22	2.8	3
6	Hebbian crosstalk and input segregation. <i>Journal of Theoretical Biology</i> , 2013 , 337, 133-49	2.3	3
5	Ion movements in endplate channels. <i>Brain Research Bulletin</i> , 1979 , 4, 147-8	3.9	2
4	The discovery of the sub-threshold currents M and Q/H in central neurons. <i>Brain Research</i> , 2016 , 1645, 38-41	3.7	2
3	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	3.4	1

2 Peptides and Slow Synaptic Potentials. *Current Topics in Membranes and Transport*, **1987**, 3-29

1 Molecular aspects of synaptic transmission. *Trends in Neurosciences*, **1978**, 1, 141-143

133