David Colquhoun

List of Publications by Year in Descending Order

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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.

102 papers	9,891 citations	51 h-index	99 g-index
130 ext. papers	10,519 ext. citations	13 avg, IF	6.48 L-index

#	Paper	IF	Citations
102	Relation of Lipoprotein(a) Levels to Incident Type 2 Diabetes and Modification by Alirocumab Treatment. *Diabetes Care*, **2021**, 44, 1219-1227	14.6	9
101	Placebo therapy for cancer-related pain: an alternative to psychotherapy or health misinformation?. *Supportive Care in Cancer*, **2020**, 28, 963-964	3.9	
100	The False Positive Risk: A Proposal Concerning What to Do About p-Values. *American Statistician*, **2019**, 73, 192-201	5	55
99	Effects of alirocumab on cardiovascular and metabolic outcomes after acute coronary syndrome in patients with or without diabetes: a prespecified analysis of the ODYSSEY OUTCOMES randomised controlled trial. *Lancet Diabetes and Endocrinology,the*, **2019**, 7, 618-628	18.1	120
98	A response to critiques of The reproducibility of research and the misinterpretation of -values. *Royal Society Open Science*, **2019**, 6, 190819	3.3	
97	Five ways to fix statistics. *Nature*, **2017**, 551, 557-559	50.4	62
96	The reproducibility of research and the misinterpretation of -values. *Royal Society Open Science*, **2017**, 4, 171085	3.3	104
95	In praise of single channel kinetics. *Journal of General Physiology*, **2016**, 148, 79-88	3.4	16
94	Response to comment by Loiselle & Ramchandra (2015). *Royal Society Open Science*, **2015**, 2, 150319	3.3	3
93	An investigation of the false discovery rate and the misinterpretation of p-values. *Royal Society Open Science*, **2014**, 1, 140216	3.3	411
92	Alternative Medicine: My Part in its Downfall. *European Review*, **2013**, 21, S62-S67	0.3	2
91	Perspectives on: conformational coupling in ion channels: allosteric coupling in ligand-gated ion channels. *Journal of General Physiology*, **2012**, 140, 599-612	3.4	34
90	The K276E startle disease mutation reveals multiple intermediate states in the gating of glycine receptors. *Journal of Neuroscience*, **2012**, 32, 1336-52	6.6	42
89	The A to Z of the wellbeing industry: from Angelic Reiki to patient centred care. Wellbeing is big business, but how much of it works?. *BMJ, The*, **2011**, 342, d2711	5.9	1
88	Wilmshurst in context. *Prometheus*, **2011**, 29, 89-90	0	
87	The long activations of glycine channels can be described by a mechanism with reaction intermediates ("flip"). *Journal of General Physiology*, **2011**, 137, 197-216	3.4	25
86	Agonist and blocking actions of choline and tetramethylammonium on human muscle acetylcholine receptors. *Journal of Physiology*, **2009**, 587, 5045-72	3.9	26

85	The arrogance of trying to sum up abilities in a number. *Nature*, **2009**, 458, 145	50.4	
84	Single Ion Channels **2009**, 223-251		2
83	On the nature of partial agonism in the nicotinic receptor superfamily. *Nature*, **2008**, 454, 722-7	50.4	266
82	Single-channel study of the spasmodic mutation alpha1A52S in recombinant rat glycine receptors. *Journal of Physiology*, **2007**, 581, 51-73	3.9	39
81	What have we learned from single ion channels?. *Journal of Physiology*, **2007**, 581, 425-7	3.9	10
80	Science degrees without the science. *Nature*, **2007**, 446, 373-4	50.4	21
79	Should NICE evaluate complementary and alternative medicines?. *BMJ, The*, **2007**, 334, 507	5.9	9
78	What to do about CAM?. *BMJ, The*, **2007**, 335, 736	5.9	5
77	Treating critically ill patients with sugar pills. *Chest*, **2007**, 131, 635-6; author reply 636	5.3	
76	Why the Schild method is better than Schild realised. *Trends in Pharmacological Sciences*, **2007**, 28, 608-14	13.2	30
75	The quantitative analysis of drug-receptor interactions: a short history. *Trends in Pharmacological Sciences*, **2006**, 27, 149-57	13.2	86
74	Agonist-activated ion channels. *British Journal of Pharmacology*, **2006**, 147 Suppl 1, S17-26	8.6	27
73	From shut to open: what can we learn from linear free energy relationships?. *Biophysical Journal*, **2005**, 89, 3673-5	2.9	9
72	A human congenital myasthenia-causing mutation (epsilon L78P) of the muscle nicotinic acetylcholine receptor with unusual single channel properties. *Journal of Physiology*, **2005**, 564, 377-96	3.9	10
71	Maximum likelihood fitting of single channel NMDA activity with a mechanism composed of independent dimers of subunits. *Journal of Physiology*, **2005**, 569, 395-418	3.9	79
70	Abuse of prisoners at Abu Ghraib. *Science*, **2005**, 307, 1873-5; author reply 1873-5	33.3	
69	Single-channel behavior of heteromeric alpha1beta glycine receptors: an attempt to detect a conformational change before the channel opens. *Journal of Neuroscience*, **2004**, 24, 10924-40	6.6	158
68	The activation mechanism of alpha1 homomeric glycine receptors. *Journal of Neuroscience*, **2004**, 24, 895-906	6.6	79

67	How to impose microscopic reversibility in complex reaction mechanisms. *Biophysical Journal*, **2004**, 86, 3510-8	2.9	92
66	Function and structure in glycine receptors and some of their relatives. *Trends in Neurosciences*, **2004**, 27, 337-44	13.3	77
65	Studies of NMDA receptor function and stoichiometry with truncated and tandem subunits. *Journal of Neuroscience*, **2003**, 23, 1151-8	6.6	194
64	Structural abnormalities of the AChR caused by mutations underlying congenital myasthenic syndromes. *Annals of the New York Academy of Sciences*, **2003**, 998, 114-24	6.5	5
63	Challenging the tyranny of impact factors. *Nature*, **2003**, 423, 479; discussion 480	50.4	47
62	The quality of maximum likelihood estimates of ion channel rate constants. *Journal of Physiology*, **2003**, 547, 699-728	3.9	93
61	Properties of the human muscle nicotinic receptor, and of the slow-channel myasthenic syndrome mutant epsilonL221F, inferred from maximum likelihood fits. *Journal of Physiology*, **2003**, 547, 729-60	3.9	76
60	Nicotinic Acetylcholine Receptors **2003**, 357-405		15
59	Openings of the rat recombinant alpha 1 homomeric glycine receptor as a function of the number of agonist molecules bound. *Journal of General Physiology*, **2002**, 119, 443-66	3.4	60
58	Single-channel analysis of an NMDA receptor possessing a mutation in the region of the glutamate binding site. *Journal of Physiology*, **2000**, 527 Pt 2, 225-37	3.9	32
57	Is NADH effective in the treatment of chronic fatigue syndrome?. *Annals of Allergy, Asthma and Immunology*, **2000**, 84, 639-40	3.2	6
56	Unfair exchange. *Nature*, **1999**, 402, 230-230	50.4	1
55	Single-channel activations and concentration jumps: comparison of recombinant NR1a/NR2A and NR1a/NR2D NMDA receptors. *Journal of Physiology*, **1998**, 510 (Pt 1), 1-18	3.9	188
54	Binding, gating, affinity and efficacy: the interpretation of structure-activity relationships for agonists and of the effects of mutating receptors. *British Journal of Pharmacology*, **1998**, 125, 924-47	8.6	727
53	From muscle endplate to brain synapses: a short history of synapses and agonist-activated ion channels. *Neuron*, **1998**, 20, 381-7	13.9	58
52	A reporter mutation approach shows incorporation of the "orphan" subunit beta3 into a functional nicotinic receptor. *Journal of Biological Chemistry*, **1998**, 273, 15317-20	5.4	86
51	Identification of amino acid residues of the NR2A subunit that control glutamate potency in recombinant NR1/NR2A NMDA receptors. *Journal of Neuroscience*, **1998**, 18, 581-9	6.6	170
50	Properties of single ion channel currents elicted by a pulse of agonist concentration or voltage. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **1997**, 355, 1743-1786	3	29

49	The ion channel properties of a rat recombinant neuronal nicotinic receptor are dependent on the host cell type. *Journal of Physiology*, **1997**, 505 (Pt 2), 299-306	3.9	91
48	Worthless ranking. *Nature*, **1997**, 386, 320-320	50.4	
47	Joint distributions of apparent open and shut times of single-ion channels and maximum likelihood fitting of mechanisms. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **1996**, 354, 2555-2590	3	77
46	A P2X purinoceptor expressed by a subset of sensory neurons. *Nature*, **1995**, 377, 428-31	50.4	897
45	Mechanisms of activation of glutamate receptors and the time course of excitatory synaptic currents. *Annual Review of Physiology*, **1995**, 57, 495-519	23.1	130
44	Acetylcholine receptors: too many channels, too few functions. *Science*, **1995**, 269, 1681-2	33.3	52
43	The Principles of the Stochastic Interpretation of Ion-Channel Mechanisms **1995**, 397-482		153
42	Mechanisms of activation of muscle nicotinic acetylcholine receptors and the time course of endplate currents. *Annual Review of Physiology*, **1995**, 57, 469-93	23.1	81
41	Desensitization of N-methyl-D-aspartate receptors: a problem of interpretation. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 10327-9	11.5	25
40	Fitting and Statistical Analysis of Single-Channel Records **1995**, 483-587		248
39	A Q-Matrix Cookbook **1995**, 589-633		75
38	Single channel properties of cloned NMDA receptors in a human cell line: comparison with results from Xenopus oocytes. *Journal of Physiology*, **1994**, 476, 391-7	3.9	62
37	Activation of N-methyl-D-aspartate receptors by L-glutamate in cells dissociated from adult rat hippocampus. *Journal of Physiology*, **1992**, 456, 143-79	3.9	155
36	Unravelling the paradox. *Trends in Pharmacological Sciences*, **1992**, 13, 429-30	13.2	2
35	Single-channel conductances of NMDA receptors expressed from cloned cDNAs: comparison with native receptors. *Proceedings of the Royal Society B: Biological Sciences*, **1992**, 250, 271-7	4.4	190
34	ATP receptor-mediated synaptic currents in the central nervous system. *Nature*, **1992**, 359, 144-7	50.4	746
33	Conductance and kinetic properties of single nicotinic acetylcholine receptor channels in rat sympathetic neurones. *Journal of Physiology*, **1991**, 439, 717-50	3.9	70
32	Single channels activated by high concentrations of GABA in superior cervical ganglion neurones of the rat. *Journal of Physiology*, **1991**, 432, 203-33	3.9	50

31	Activation of ion channels in the frog endplate by several analogues of acetylcholine. *Journal of Physiology*, **1991**, 433, 73-93	3.9	26
30	Currents through single glutamate receptor channels in outside-out patches from rat cerebellar granule cells. *Journal of Physiology*, **1991**, 432, 143-202	3.9	107
29	Neher and Sakmann win Nobel Prize for patch-clamp work. *Trends in Pharmacological Sciences*, **1991**, 12, 449	13.2	4
28	Trials of homoeopathy **1991**, 302, 1466-1466		
27	Rectification of currents activated by nicotinic acetylcholine receptors in rat sympathetic ganglion neurones. *Journal of Physiology*, **1990**, 427, 625-55	3.9	101
26	The distributions of the apparent open times and shut times in a single channel record when brief events cannot be detected. *Philosophical Transactions of the Royal Society: Physical and Engineering Sciences*, **1990**, 332, 511-538		100
25	The actions of suxamethonium (succinyldicholine) as an agonist and channel blocker at the nicotinic receptor of frog muscle. *Journal of Physiology*, **1990**, 428, 155-74	3.9	35
24	Validity of the operational model. *Trends in Pharmacological Sciences*, **1989**, 10, 17	13.2	9
23	Desensitization of the acetylcholine receptor of frog end-plates measured in a Vaseline-gap voltage clamp. *Journal of Physiology*, **1989**, 415, 159-88	3.9	85
22	Single channel analysis costs time. *Trends in Pharmacological Sciences*, **1988**, 9, 157-8	13.2	10
21	Activation of ion channels in the frog end-plate by high concentrations of acetylcholine. *Journal of Physiology*, **1988**, 395, 131-59	3.9	186
20	Nicotinic acetylcholine receptors of nerve and muscle: Functional aspects. *Trends in Pharmacological Sciences*, **1987**, 8, 465-472	13.2	47
19	Regulation of the acetylcholine receptor. *Trends in Pharmacological Sciences*, **1987**, 8, 294-295	13.2	1
18	Ogden et al. reply. *Trends in Pharmacological Sciences*, **1987**, 8, 335	13.2	
17	Caution: agonists are complex. *Trends in Pharmacological Sciences*, **1986**, 7, 390	13.2	2
16	Fast events in single-channel currents activated by acetylcholine and its analogues at the frog muscle end-plate. *Journal of Physiology*, **1985**, 369, 501-57	3.9	645
15	Imprecision in presentation of binding studies. *Trends in Pharmacological Sciences*, **1985**, 6, 197	13.2	19
14	Conductances of single ion channels opened by nicotinic agonists are indistinguishable. *Nature*, **1984**, 309, 160-2	50.4	63

13	Kinetics of acetylcholine activated ion channels in chick ciliary ganglion neurones grown in tissue culture. *Pflugers Archiv European Journal of Physiology*, **1984**, 400, 44-50	4.6	41
12	The efficacy of agonists at the frog neuromuscular junction studied with single channel recording. *Pflugers Archiv European Journal of Physiology*, **1983**, 399, 246-8	4.6	25
11	The effect of tubocurarine competition on the kinetics of agonist action on the nicotinic receptor. *British Journal of Pharmacology*, **1982**, 75, 77-86	8.6	24
10	The action of ganglionic blocking drugs on the synaptic responses of rat submandibular ganglion cells. *British Journal of Pharmacology*, **1982**, 75, 151-68	8.6	74
9	How fast do drugs work?. *Trends in Pharmacological Sciences*, **1981**, 2, 212-217	13.2	16
8	Block of acetylcholine-activated ion channels by an uncharged local anaesthetic. *Nature*, **1981**, 289, 596-8	50.4	96
7	Inward current channels activated by intracellular Ca in cultured cardiac cells. *Nature*, **1981**, 294, 752-4	50.4	636
6	The actions of tubocurarine at the frog neuromuscular junction. *Journal of Physiology*, **1979**, 293, 247-84	3.9	215
5	An analysis of the action of a false transmitter at the neuromuscular junction. *Journal of Physiology*, **1977**, 266, 361-95	3.9	125
4	Conductance of channels opened by acetylcholine-like drugs in muscle end-plate. *Nature*, **1975**, 253, 204-6	50.4	117
3	Mechanisms of drug action at the voluntary muscle endplate. *Annual Review of Pharmacology*, **1975**, 15, 307-25		60
2	The binding of tetrodotoxin and alpha-bungarotoxin to normal and denervated mammalian muscle. *Journal of Physiology*, **1974**, 240, 199-226	3.9	64
1	The reproducibility of research and the misinterpretation of P values		3