

# David Colquhoun

## List of Publications by Year in descending order

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123  
papers

11,368  
citations

36303

51  
h-index

30922

102  
g-index

130  
all docs

130  
docs citations

130  
times ranked

6641  
citing authors

#	ARTICLE	IF	CITATIONS
1	A P2X purinoceptor expressed by a subset of sensory neurons. <i>Nature</i> , 1995, 377, 428-431.	27.8	985
2	Binding, gating, affinity and efficacy: The interpretation of structure-activity relationships for agonists and of the effects of mutating receptors. <i>British Journal of Pharmacology</i> , 1998, 125, 923-947.	5.4	808
3	ATP receptor-mediated synaptic currents in the central nervous system. <i>Nature</i> , 1992, 359, 144-147.	27.8	795
4	Fast events in single-channel currents activated by acetylcholine and its analogues at the frog muscle end-plate. <i>Journal of Physiology</i> , 1985, 369, 501-557.	2.9	723
5	Inward current channels activated by intracellular Ca in cultured cardiac cells. <i>Nature</i> , 1981, 294, 752-754.	27.8	694
6	An investigation of the false discovery rate and the misinterpretation of $p$ -values. <i>Royal Society Open Science</i> , 2014, 1, 140216.	2.4	544
7	On the nature of partial agonism in the nicotinic receptor superfamily. <i>Nature</i> , 2008, 454, 722-727.	27.8	312
8	Fitting and Statistical Analysis of Single-Channel Records. , 1995, , 483-587.		279
9	The Principles of the Stochastic Interpretation of Ion-Channel Mechanisms. , 1995, , 397-482.		255
10	The actions of tubocurarine at the frog neuromuscular junction. <i>Journal of Physiology</i> , 1979, 293, 247-284.	2.9	248
11	Single-channel conductances of NMDA receptors expressed from cloned cDNAs: comparison with native receptors. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1992, 250, 271-277.	2.6	207
12	Studies of NMDA Receptor Function and Stoichiometry with Truncated and Tandem Subunits. <i>Journal of Neuroscience</i> , 2003, 23, 1151-1158.	3.6	207
13	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. <i>Lancet Diabetes and Endocrinology</i> , 2019, 7, 618-628.	11.4	207
14	Single-channel activations and concentration jumps: comparison of recombinant NR1a/NR2A and NR1a/NR2D NMDA receptors. <i>Journal of Physiology</i> , 1998, 510, 1-18.	2.9	206
15	Activation of ion channels in the frog end-plate by high concentrations of acetylcholine. <i>Journal of Physiology</i> , 1988, 395, 131-159.	2.9	205
16	Identification of Amino Acid Residues of the NR2A Subunit That Control Glutamate Potency in Recombinant NR1/NR2A NMDA Receptors. <i>Journal of Neuroscience</i> , 1998, 18, 581-589.	3.6	180
17	Single-Channel Behavior of Heteromeric Glycine Receptors: An Attempt to Detect a Conformational Change before the Channel Opens. <i>Journal of Neuroscience</i> , 2004, 24, 10924-10940.	3.6	178
18	Activation of N-methyl-D-aspartate receptors by L-glutamate in cells dissociated from adult rat hippocampus. <i>Journal of Physiology</i> , 1992, 456, 143-179.	2.9	167

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19	The reproducibility of research and the misinterpretation of <i>p</i> -values. Royal Society Open Science, 2017, 4, 171085.	2.4	159
20	An analysis of the action of a false transmitter at the neuromuscular junction.. Journal of Physiology, 1977, 266, 361-395.	2.9	139
21	Mechanisms of Activation of Glutamate Receptors and the Time Course of Excitatory Synaptic Currents. Annual Review of Physiology, 1995, 57, 495-519.	13.1	137
22	Conductance of channels opened by acetylcholine-like drugs in muscle end-plate. Nature, 1975, 253, 204-206.	27.8	122
23	How to Impose Microscopic Reversibility in Complex Reaction Mechanisms. Biophysical Journal, 2004, 86, 3510-3518.	0.5	119
24	Currents through single glutamate receptor channels in outside-out patches from rat cerebellar granule cells.. Journal of Physiology, 1991, 432, 143-202.	2.9	114
25	The quantitative analysis of drug-receptor interactions: a short history. Trends in Pharmacological Sciences, 2006, 27, 149-157.	8.7	113
26	Rectification of currents activated by nicotinic acetylcholine receptors in rat sympathetic ganglion neurones.. Journal of Physiology, 1990, 427, 625-655.	2.9	111
27	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.	1.0	110
28	The quality of maximum likelihood estimates of ion channel rate constants. Journal of Physiology, 2003, 547, 699-728.	2.9	106
29	The ion channel properties of a rat recombinant neuronal nicotinic receptor are dependent on the host cell type. Journal of Physiology, 1997, 505, 299-306.	2.9	101
30	Acupuncture Is Theatrical Placebo. Anesthesia and Analgesia, 2013, 116, 1360-1363.	2.2	101
31	Block of acetylcholine-activated ion channels by an uncharged local anaesthetic. Nature, 1981, 289, 596-598.	27.8	100
32	Desensitization of the acetylcholine receptor of frog end-plates measured in a Vaseline-gap voltage clamp.. Journal of Physiology, 1989, 415, 159-188.	2.9	94
33	A Q-Matrix Cookbook. , 1995, , 589-633.		91
34	A Reporter Mutation Approach Shows Incorporation of the Orphan Subunit $\beta 2$ into a Functional Nicotinic Receptor. Journal of Biological Chemistry, 1998, 273, 15317-15320.	3.4	90
35	The False Positive Risk: A Proposal Concerning What to Do About <i>p</i> -Values. American Statistician, 2019, 73, 192-201.	1.6	90
36	Five ways to fix statistics. Nature, 2017, 551, 557-559.	27.8	86

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37	Mechanisms of Activation of Muscle Nicotinic Acetylcholine Receptors and the Time Course of Endplate Currents. <i>Annual Review of Physiology</i> , 1995, 57, 469-493.	13.1	85
38	Joint distributions of apparent open and shut times of single-ion channels and maximum likelihood fitting of mechanisms. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1996, 354, 2555-2590.	3.4	85
39	Function and structure in glycine receptors and some of their relatives. <i>Trends in Neurosciences</i> , 2004, 27, 337-344.	8.6	84
40	THE ACTION OF GANGLIONIC BLOCKING DRUGS ON THE SYNAPTIC RESPONSES OF RAT SUBMANDIBULAR GANGLION CELLS. <i>British Journal of Pharmacology</i> , 1982, 75, 151-168.	5.4	82
41	The Activation Mechanism of $\alpha 1$ Homomeric Glycine Receptors. <i>Journal of Neuroscience</i> , 2004, 24, 895-906.	3.6	82
42	Maximum likelihood fitting of single channel NMDA activity with a mechanism composed of independent dimers of subunits. <i>Journal of Physiology</i> , 2005, 569, 395-418.	2.9	82
43	Properties of the human muscle nicotinic receptor, and of the slow-channel myasthenic syndrome mutant $\alpha 221F$ , inferred from maximum likelihood fits. <i>Journal of Physiology</i> , 2003, 547, 729-760.	2.9	80
44	Conductance and kinetic properties of single nicotinic acetylcholine receptor channels in rat sympathetic neurones.. <i>Journal of Physiology</i> , 1991, 439, 717-750.	2.9	75
45	Challenging the tyranny of impact factors. <i>Nature</i> , 2003, 423, 479-479.	27.8	74
46	The binding of tetrodotoxin and $\alpha$ -bungarotoxin to normal and denervated mammalian muscle. <i>Journal of Physiology</i> , 1974, 240, 199-226.	2.9	71
47	Conductances of single ion channels opened by nicotinic agonists are indistinguishable. <i>Nature</i> , 1984, 309, 160-162.	27.8	67
48	Single channel properties of cloned NMDA receptors in a human cell line: comparison with results from <i>Xenopus</i> oocytes.. <i>Journal of Physiology</i> , 1994, 476, 391-397.	2.9	66
49	Mechanisms of Drug Action at the Voluntary Muscle Endplate. <i>Annual Review of Pharmacology</i> , 1975, 15, 307-325.	4.4	65
50	From Muscle Endplate to Brain Synapses: A Short History of Synapses and Agonist-Activated Ion Channels. <i>Neuron</i> , 1998, 20, 381-387.	8.1	64
51	Acetylcholine receptors: too many channels, too few functions. <i>Science</i> , 1995, 269, 1681-1682.	12.6	61
52	Openings of the Rat Recombinant $\alpha 1$ Homomeric Glycine Receptor as a Function of the Number of Agonist Molecules Bound. <i>Journal of General Physiology</i> , 2002, 119, 443-466.	1.9	61
53	Single channels activated by high concentrations of GABA in superior cervical ganglion neurones of the rat.. <i>Journal of Physiology</i> , 1991, 432, 203-233.	2.9	57
54	Nicotinic acetylcholine receptors of nerve and muscle: Functional aspects. <i>Trends in Pharmacological Sciences</i> , 1987, 8, 465-472.	8.7	55

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55	The $\hat{1}K276E$ Startle Disease Mutation Reveals Multiple Intermediate States in the Gating of Glycine Receptors. <i>Journal of Neuroscience</i> , 2012, 32, 1336-1352.	3.6	52
56	Kinetics of acetylcholine activated ion channels in chick ciliary ganglion neurones grown in tissue culture. <i>Pflugers Archiv European Journal of Physiology</i> , 1984, 400, 44-50.	2.8	47
57	The binding issue. <i>Nature</i> , 1993, 366, 510-511.	27.8	47
58	Single-channel study of the spasmodic mutation $\hat{1}A52S$ in recombinant rat glycine receptors. <i>Journal of Physiology</i> , 2007, 581, 51-73.	2.9	43
59	Allosteric coupling in ligand-gated ion channels. <i>Journal of General Physiology</i> , 2012, 140, 599-612.	1.9	43
60	The actions of suxamethonium (succinylcholine) as an agonist and channel blocker at the nicotinic receptor of frog muscle.. <i>Journal of Physiology</i> , 1990, 428, 155-174.	2.9	41
61	Agonist-activated ion channels. <i>British Journal of Pharmacology</i> , 2006, 147, S17-S26.	5.4	36
62	Why the Schild method is better than Schild realised. <i>Trends in Pharmacological Sciences</i> , 2007, 28, 608-614.	8.7	36
63	Properties of single ion channel currents elicited by a pulse of agonist concentration or voltage. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997, 355, 1743-1786.	3.4	35
64	Single-channel analysis of an NMDA receptor possessing a mutation in the region of the glutamate binding site. <i>Journal of Physiology</i> , 2000, 527, 225-237.	2.9	32
65	THE EFFECT OF TUBOCURARINE COMPETITION ON THE KINETICS OF AGONIST ACTION ON THE NICOTINIC RECEPTOR. <i>British Journal of Pharmacology</i> , 1982, 75, 77-86.	5.4	31
66	Activation of ion channels in the frog endplate by several analogues of acetylcholine.. <i>Journal of Physiology</i> , 1991, 433, 73-93.	2.9	31
67	Science degrees without the science. <i>Nature</i> , 2007, 446, 373-374.	27.8	31
68	The efficacy of agonists at the frog neuromuscular junction studied with single channel recording. <i>Pflugers Archiv European Journal of Physiology</i> , 1983, 399, 246-248.	2.8	30
69	Desensitization of N-methyl-D-aspartate receptors: a problem of interpretation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 10327-10329.	7.1	29
70	Agonist and blocking actions of choline and tetramethylammonium on human muscle acetylcholine receptors. <i>Journal of Physiology</i> , 2009, 587, 5045-5072.	2.9	29
71	The long activations of $\hat{1}2$ glycine channels can be described by a mechanism with reaction intermediates ( $\hat{a}oe\text{flip}\hat{a}e$ ). <i>Journal of General Physiology</i> , 2011, 137, 197-216.	1.9	26
72	Imprecision in presentation of binding studies. <i>Trends in Pharmacological Sciences</i> , 1985, 6, 197.	8.7	22

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73	In praise of single channel kinetics. <i>Journal of General Physiology</i> , 2016, 148, 79-88.	1.9	20
74	How fast do drugs work?. <i>Trends in Pharmacological Sciences</i> , 1981, 2, 212-217.	8.7	19
75	Relation of Lipoprotein(a) Levels to Incident Type 2 Diabetes and Modification by Alirocumab Treatment. <i>Diabetes Care</i> , 2021, 44, 1219-1227.	8.6	19
76	What have we learned from single ion channels?. <i>Journal of Physiology</i> , 2007, 581, 425-427.	2.9	14
77	A new type of ion-channel block. <i>Nature</i> , 1987, 329, 204-205.	27.8	12
78	A human congenital myasthenia-causing mutation (ÉL78P) of the muscle nicotinic acetylcholine receptor with unusual single channel properties. <i>Journal of Physiology</i> , 2005, 564, 377-396.	2.9	12
79	â€Complementary & Alternative Medicineâ€™™ (CAM): Ethical And Policy Issues. <i>Bioethics</i> , 2016, 30, 60-62.	1.4	12
80	Should NICE evaluate complementary and alternative medicines?. <i>BMJ: British Medical Journal</i> , 2007, 334, 507-507.	2.3	11
81	Single channel analysis costs time. <i>Trends in Pharmacological Sciences</i> , 1988, 9, 157-158.	8.7	10
82	From Shut to Open: What Can We Learn from Linear Free Energy Relationships?. <i>Biophysical Journal</i> , 2005, 89, 3673-3675.	0.5	10
83	Validity of the operational model. <i>Trends in Pharmacological Sciences</i> , 1989, 10, 17.	8.7	9
84	Letters to the editor. <i>Annals of Allergy, Asthma and Immunology</i> , 2000, 84, 639.	1.0	8
85	Secret remedies: 100 years on. <i>BMJ: British Medical Journal</i> , 2009, 339, b5432-b5432.	2.3	7
86	Neher and Sakmann win Nobel Prize for patch-clamp work. <i>Trends in Pharmacological Sciences</i> , 1991, 12, 449.	8.7	6
87	GABA and the single oocyte: relating binding to gating. <i>Nature Neuroscience</i> , 1999, 2, 201-202.	14.8	6
88	Structural Abnormalities of the AChR Caused by Mutations Underlying Congenital Myasthenic Syndromes. <i>Annals of the New York Academy of Sciences</i> , 2003, 998, 114-124.	3.8	6
89	What to do about CAM?. <i>BMJ: British Medical Journal</i> , 2007, 335, 736.2-736.	2.3	6
90	Molecular pharmacology: Structure and function of acetyl-choline-receptor ion channels. <i>Nature</i> , 1986, 321, 382-383.	27.8	4

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91	Unravelling the paradox. Trends in Pharmacological Sciences, 1992, 13, 429-430.	8.7	3
92	Alternative Medicine: My Part in its Downfall. European Review, 2013, 21, S62-S67.	0.7	3
93	Response to comment by Loisel & Ramchandra (2015). Royal Society Open Science, 2015, 2, 150319.	2.4	3
94	The highs and lows of policy based evidence. BMJ: British Medical Journal, 2009, 339, b4564-b4564.	2.3	3
95	Caution: agonists are complex. Trends in Pharmacological Sciences, 1986, 7, 390.	8.7	2
96	The A to Z of the wellbeing industry: from angelic reiki to patient centred care. BMJ: British Medical Journal, 2011, 342, d2711-d2711.	2.3	2
97	Single Ion Channels. , 2009, , 223-251.		2
98	MHRA label seems to be illegal. BMJ: British Medical Journal, 2009, 338, b2333-b2333.	2.3	2
99	Regulation of the acetylcholine receptor. Trends in Pharmacological Sciences, 1987, 8, 294-295.	8.7	1
100	Unfair exchange. Nature, 1999, 402, 230-230.	27.8	1
101	College of Medicine is Prince's Foundation reincarnated. BMJ: British Medical Journal, 2011, 343, d4368-d4368.	2.3	1
102	Biostatistics in Pharmacology. Volumes I and II.. Journal of the Royal Statistical Society Series A (General), 1974, 137, 439.	0.6	0
103	Cooperative Equilibrium in Physical Biochemistry. Biometrics, 1979, 35, 706.	1.4	0
104	Introduction to Membrane Noise. Louis J. DeFelice. Quarterly Review of Biology, 1983, 58, 287-288.	0.1	0
105	Mechanism of action of the nicotinic acetylcholine receptor, Advanced Research Workshop, Island of Santorini, Greece. May 19â€“23, 1986. Trends in Pharmacological Sciences, 1986, 7, 292-294.	8.7	0
106	Ogden et al. reply. Trends in Pharmacological Sciences, 1987, 8, 335.	8.7	0
107	Trials of homoeopathy. BMJ: British Medical Journal, 1991, 302, 1466-1466.	2.3	0
108	Worthless ranking. Nature, 1997, 386, 320-320.	27.8	0

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109	Abuse of Prisoners at Abu Ghraib. Science, 2005, 307, 1873b-1875b.	12.6	0
110	Treating Critically Ill Patients With Sugar Pills. Chest, 2007, 131, 635-636.	0.8	0
111	The arrogance of trying to sum up abilities in a number. Nature, 2009, 458, 145-145.	27.8	0
112	Channel Blocking Properties Of Tetramethylammonium At The Human Muscle Acetylcholine Receptor. Biophysical Journal, 2009, 96, 166a.	0.5	0
113	Problems In Determining A Mechanisms Of Receptor Activation And Relating It To Structure. Biophysical Journal, 2009, 96, 565a.	0.5	0
114	Wilmshurst in context. Prometheus, 2011, 29, 89-90.	0.4	0
115	Response to Whitehead. BMJ, The, 2012, 345, e7088-e7088.	6.0	0
116	Scarcely credible treatments do not merit university attention. BMJ: British Medical Journal, 2012, 344, e1628-e1628.	2.3	0
117	A response to critiques of "The reproducibility of research and the misinterpretation of p-values". Royal Society Open Science, 2019, 6, 190819.	2.4	0
118	Placebo therapy for cancer-related pain: an alternative to psychotherapy or health misinformation?. Supportive Care in Cancer, 2020, 28, 963-964.	2.2	0
119	A very bad report on regulating complementary medicine. BMJ: British Medical Journal, 2008, 337, a591-a591.	2.3	0
120	Author's reply to the minister. BMJ: British Medical Journal, 2010, 340, c640-c640.	2.3	0
121	In Praise of Randomisation: The Importance of Causality in Medicine and its Subversion by Philosophers of Science. , 2011, , .		0
122	What to do about research assessment (the REF)? A proposal for two-stage university education. The Winnower, 2015, , .	0.0	0
123	Diet and health. What can you believe: or does bacon kill you?. The Winnower, 2015, , .	0.0	0