David Colquhoun

List of Publications by Year
in descending order

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	Relation of Lipoprotein(a) Levels to Incident Type 2 Diabetes and Modification by Alirocumab Treatment. Diabetes Care, 2021, 44, 1219-1227.	8.6	19
2	Placebo therapy for cancer-related pain: an alternative to psychotherapy or health misinformation?. Supportive Care in Cancer, 2020, 28, 963-964.	2.2	0
3	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.	11.4	207
4	The False Positive Risk: A Proposal Concerning What to Do About p-Values. American Statistician, 2019, 73, 192-201.	1.6	90
5	A response to critiques of â€˜The reproducibility of research and the misinterpretation of p -valuesâ€™. Royal Society Open Science, 2019, 6, 190819.	2.4	0
6	The reproducibility of research and the misinterpretation of p -values. Royal Society Open Science, 2017, 4, 171085.	2.4	159
7	Five ways to fix statistics. Nature, 2017, 551, 557-559.	27.8	86
8	â€˜Complementary & Alternative Medicineâ€™ (CAM): Ethical And Policy Issues. Bioethics, 2016, 30, 60-62.	1.4	12
9	In praise of single channel kinetics. Journal of General Physiology, 2016, 148, 79-88.	1.9	20
10	Response to comment by Loiselle & Ramchandra (2015). Royal Society Open Science, 2015, 2, 150319.	2.4	3
11	What to do about research assessment (the REF)? A proposal for two-stage university education. The Winnower, 2015, , .	0.0	0
12	Diet and health. What can you believe: or does bacon kill you?. The Winnower, 2015, , .	0.0	0
13	An investigation of the false discovery rate and the misinterpretation of p -values. Royal Society Open Science, 2014, 1, 140216.	2.4	544
14	Acupuncture Is Theatrical Placebo. Anesthesia and Analgesia, 2013, 116, 1360-1363.	2.2	101
15	Alternative Medicine: My Part in its Downfall. European Review, 2013, 21, S62-S67.	0.7	3
16	The Î±1K276E Startle Disease Mutation Reveals Multiple Intermediate States in the Gating of Glycine Receptors. Journal of Neuroscience, 2012, 32, 1336-1352.	3.6	52
17	Response to Whitehead. BMJ, The, 2012, 345, e7088-e7088.	6.0	0
18	Allosteric coupling in ligand-gated ion channels. Journal of General Physiology, 2012, 140, 599-612.	1.9	43

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19	Scarcely credible treatments do not merit university attention. BMJ: British Medical Journal, 2012, 344, e1628-e1628.	2.3	0
20	Wilmshurst in context. Prometheus, 2011, 29, 89-90.	0.4	0
21	College of Medicine is Prince's Foundation reincarnated. BMJ: British Medical Journal, 2011, 343, d4368-d4368.	2.3	1
22	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
23	The long activations of Î±2 glycine channels can be described by a mechanism with reaction intermediates (â€œflipâ€). Journal of General Physiology, 2011, 137, 197-216.	1.9	26
24	In Praise of Randomisation: The Importance of Causality in Medicine and its Subversion by Philosophers of Science. , 2011, , .		0
25	Author's reply to the minister. BMJ: British Medical Journal, 2010, 340, c640-c640.	2.3	0
26	Secret remedies: 100 years on. BMJ: British Medical Journal, 2009, 339, b5432-b5432.	2.3	7
27	Agonist and blocking actions of choline and tetramethylammonium on human muscle acetylcholine receptors. Journal of Physiology, 2009, 587, 5045-5072.	2.9	29
28	The arrogance of trying to sum up abilities in a number. Nature, 2009, 458, 145-145.	27.8	0
29	Channel Blocking Properties Of Tetramethylammonium At The Human Muscle Acetylcholine Receptor. Biophysical Journal, 2009, 96, 166a.	0.5	0
30	Problems In Determining A Mechanisms Of Receptor Activation And Relating It To Structure. Biophysical Journal, 2009, 96, 565a.	0.5	0
31	Single Ion Channels. , 2009, , 223-251.		2
32	MHRA label seems to be illegal. BMJ: British Medical Journal, 2009, 338, b2333-b2333.	2.3	2
33	The highs and lows of policy based evidence. BMJ: British Medical Journal, 2009, 339, b4564-b4564.	2.3	3
34	On the nature of partial agonism in the nicotinic receptor superfamily. Nature, 2008, 454, 722-727.	27.8	312
35	A very bad report on regulating complementary medicine. BMJ: British Medical Journal, 2008, 337, a591-a591.	2.3	0
36	Should NICE evaluate complementary and alternative medicines?. BMJ: British Medical Journal, 2007, 334, 507-507.	2.3	11

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37	What to do about CAM?. BMJ: British Medical Journal, 2007, 335, 736.2-736.	2.3	6
38	Treating Critically Ill Patients With Sugar Pills. Chest, 2007, 131, 635-636.	0.8	0
39	Why the Schild method is better than Schild realised. Trends in Pharmacological Sciences, 2007, 28, 608-614.	8.7	36
40	Single-channel study of the spasmodic mutation Î±1A52S in recombinant rat glycine receptors. Journal of Physiology, 2007, 581, 51-73.	2.9	43
41	What have we learned from single ion channels?. Journal of Physiology, 2007, 581, 425-427.	2.9	14
42	Science degrees without the science. Nature, 2007, 446, 373-374.	27.8	31
43	The quantitative analysis of drugâ€“receptor interactions: a short history. Trends in Pharmacological Sciences, 2006, 27, 149-157.	8.7	113
44	Agonist-activated ion channels. British Journal of Pharmacology, 2006, 147, S17-S26.	5.4	36
45	A human congenital myasthenia-causing mutation (É›L78P) of the muscle nicotinic acetylcholine receptor with unusual single channel properties. Journal of Physiology, 2005, 564, 377-396.	2.9	12
46	Maximum likelihood fitting of single channel NMDA activity with a mechanism composed of independent dimers of subunits. Journal of Physiology, 2005, 569, 395-418.	2.9	82
47	Abuse of Prisoners at Abu Ghraib. Science, 2005, 307, 1873b-1875b.	12.6	0
48	From Shut to Open: What Can We Learn from Linear Free Energy Relationships?. Biophysical Journal, 2005, 89, 3673-3675.	0.5	10
49	Single-Channel Behavior of Heteromeric Â1Â Glycine Receptors: An Attempt to Detect a Conformational Change before the Channel Opens. Journal of Neuroscience, 2004, 24, 10924-10940.	3.6	178
50	The Activation Mechanism of Â1 Homomeric Glycine Receptors. Journal of Neuroscience, 2004, 24, 895-906.	3.6	82
51	How to Impose Microscopic Reversibility in Complex Reaction Mechanisms. Biophysical Journal, 2004, 86, 3510-3518.	0.5	119
52	Function and structure in glycine receptors and some of their relatives. Trends in Neurosciences, 2004, 27, 337-344.	8.6	84
53	Structural Abnormalities of the AChR Caused by Mutations Underlying Congenital Myasthenic Syndromes. Annals of the New York Academy of Sciences, 2003, 998, 114-124.	3.8	6
54	Challenging the tyranny of impact factors. Nature, 2003, 423, 479-479.	27.8	74

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55	Studies of NMDA Receptor Function and Stoichiometry with Truncated and Tandem Subunits. Journal of Neuroscience, 2003, 23, 1151-1158.	3.6	207
56	The quality of maximum likelihood estimates of ion channel rate constants. Journal of Physiology, 2003, 547, 699-728.	2.9	106
57	Properties of the human muscle nicotinic receptor, and of the slow-channel myasthenic syndrome mutant ÂL221F, inferred from maximum likelihood fits. Journal of Physiology, 2003, 547, 729-760.	2.9	80
58	Openings of the Rat Recombinant Î±1 Homomeric Glycine Receptor as a Function of the Number of Agonist Molecules Bound. Journal of General Physiology, 2002, 119, 443-466.	1.9	61
59	Singleâ€channel analysis of an NMDA receptor possessing a mutation in the region of the glutamate binding site. Journal of Physiology, 2000, 527, 225-237.	2.9	32
60	Letters to the editor. Annals of Allergy, Asthma and Immunology, 2000, 84, 639.	1.0	8
61	Unfair exchange. Nature, 1999, 402, 230-230.	27.8	1
62	GABA and the single oocyte: relating binding to gating. Nature Neuroscience, 1999, 2, 201-202.	14.8	6
63	Single-channel activations and concentration jumps: comparison of recombinant NR1a/NR2A and NR1a/NR2D NMDA receptors. Journal of Physiology, 1998, 510, 1-18.	2.9	206
64	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, 923-947.	5.4	808
65	From Muscle Endplate to Brain Synapses: A Short History of Synapses and Agonist-Activated Ion Channels. Neuron, 1998, 20, 381-387.	8.1	64
66	A Reporter Mutation Approach Shows Incorporation of the â€œOrphanâ€•Subunit Î²3 into a Functional Nicotinic Receptor. Journal of Biological Chemistry, 1998, 273, 15317-15320.	3.4	90
67	Identification of Amino Acid Residues of the NR2A Subunit That Control Glutamate Potency in Recombinant NR1/NR2A NMDA Receptors. Journal of Neuroscience, 1998, 18, 581-589.	3.6	180
68	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.	3.4	35
69	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
70	Worthless ranking. Nature, 1997, 386, 320-320.	27.8	0
71	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.	3.4	85
72	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, 10327-10329.	7.1	29

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73	A P2X purinoceptor expressed by a subset of sensory neurons. Nature, 1995, 377, 428-431.	27.8	985
74	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
75	Acetylcholine receptors: too many channels, too few functions. Science, 1995, 269, 1681-1682.	12.6	61
76	The Principles of the Stochastic Interpretation of Ion-Channel Mechanisms. , 1995, , 397-482.		255
77	Mechanisms of Activation of Muscle Nicotinic Acetylcholine Receptors and the Time Course of Endplate Currents. Annual Review of Physiology, 1995, 57, 469-493.	13.1	85
78	Fitting and Statistical Analysis of Single-Channel Records. , 1995, , 483-587.		279
79	A Q-Matrix Cookbook. , 1995, , 589-633.		91
80	Single channel properties of cloned NMDA receptors in a human cell line: comparison with results from Xenopus oocytes.. Journal of Physiology, 1994, 476, 391-397.	2.9	66
81	The binding issue. Nature, 1993, 366, 510-511.	27.8	47
82	Activation of Nâ€methylâ€Dâ€aspartate receptors by Lâ€glutamate in cells dissociated from adult rat hippocampus.. Journal of Physiology, 1992, 456, 143-179.	2.9	167
83	Unravelling the paradox. Trends in Pharmacological Sciences, 1992, 13, 429-430.	8.7	3
84	Single-channel conductances of NMDA receptors expressed from cloned cDNAs: comparison with native receptors. Proceedings of the Royal Society B: Biological Sciences, 1992, 250, 271-277.	2.6	207
85	ATP receptor-mediated synaptic currents in the central nervous system. Nature, 1992, 359, 144-147.	27.8	795
86	Neher and Sakmann win Nobel Prize for patch-clamp work. Trends in Pharmacological Sciences, 1991, 12, 449.	8.7	6
87	Trials of homoeopathy. BMJ: British Medical Journal, 1991, 302, 1466-1466.	2.3	0
88	Conductance and kinetic properties of single nicotinic acetylcholine receptor channels in rat sympathetic neurones.. Journal of Physiology, 1991, 439, 717-750.	2.9	75
89	Single channels activated by high concentrations of GABA in superior cervical ganglion neurones of the rat.. Journal of Physiology, 1991, 432, 203-233.	2.9	57
90	Activation of ion channels in the frog endplate by several analogues of acetylcholine.. Journal of Physiology, 1991, 433, 73-93.	2.9	31

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91	Currents through single glutamate receptor channels in outsideâ€out patches from rat cerebellar granule cells.. Journal of Physiology, 1991, 432, 143-202.	2.9	114
92	Rectification of currents activated by nicotinic acetylcholine receptors in rat sympathetic ganglion neurones.. Journal of Physiology, 1990, 427, 625-655.	2.9	111
93	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
94	The actions of suxamethonium (succinyldicholine) as an agonist and channel blocker at the nicotinic receptor of frog muscle.. Journal of Physiology, 1990, 428, 155-174.	2.9	41
95	Validity of the operational model. Trends in Pharmacological Sciences, 1989, 10, 17.	8.7	9
96	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
97	Single channel analysis costs time. Trends in Pharmacological Sciences, 1988, 9, 157-158.	8.7	10
98	Activation of ion channels in the frog end-plate by high concentrations of acetylcholine.. Journal of Physiology, 1988, 395, 131-159.	2.9	205
99	Nicotinic acetylcholine receptors of nerve and muscle: Functional aspects. Trends in Pharmacological Sciences, 1987, 8, 465-472.	8.7	55
100	Regulation of the acetylcholine receptor. Trends in Pharmacological Sciences, 1987, 8, 294-295.	8.7	1
101	Ogden et al. reply. Trends in Pharmacological Sciences, 1987, 8, 335.	8.7	0
102	A new type of ion-channel block. Nature, 1987, 329, 204-205.	27.8	12
103	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
104	Caution: agonists are complex. Trends in Pharmacological Sciences, 1986, 7, 390.	8.7	2
105	Molecular pharmacology: Structure and function of acetyl-choline-receptor ion channels. Nature, 1986, 321, 382-383.	27.8	4
106	Fast events in singleâ€channel currents activated by acetylcholine and its analogues at the frog muscle endâ€plate.. Journal of Physiology, 1985, 369, 501-557.	2.9	723
107	Imprecision in presentation of binding studies. Trends in Pharmacological Sciences, 1985, 6, 197.	8.7	22
108	Conductances of single ion channels opened by nicotinic agonists are indistinguishable. Nature, 1984, 309, 160-162.	27.8	67

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109	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.	2.8	47
110	The efficacy of agonists at the frog neuromuscular junction studied with single channel recording. Pflugers Archiv European Journal of Physiology, 1983, 399, 246-248.	2.8	30
111	Introduction to Membrane Noise. Louis J. DeFelice. Quarterly Review of Biology, 1983, 58, 287-288.	0.1	0
112	THE EFFECT OF TUBOCURARINE COMPETITION ON THE KINETICS OF AGONIST ACTION ON THE NICOTINIC RECEPTOR. British Journal of Pharmacology, 1982, 75, 77-86.	5.4	31
113	THE ACTION OF GANGLIONIC BLOCKING DRUGS ON THE SYNAPTIC RESPONSES OF RAT SUBMANDIBULAR GANGLION CELLS. British Journal of Pharmacology, 1982, 75, 151-168.	5.4	82
114	How fast do drugs work?. Trends in Pharmacological Sciences, 1981, 2, 212-217.	8.7	19
115	Block of acetylcholine-activated ion channels by an uncharged local anaesthetic. Nature, 1981, 289, 596-598.	27.8	100
116	Inward current channels activated by intracellular Ca in cultured cardiac cells. Nature, 1981, 294, 752-754.	27.8	694
117	Cooperative Equilibrium in Physical Biochemistry. Biometrics, 1979, 35, 706.	1.4	0
118	The actions of tubocurarine at the frog neuromuscular junction.. Journal of Physiology, 1979, 293, 247-284.	2.9	248
119	An analysis of the action of a false transmitter at the neuromuscular junction.. Journal of Physiology, 1977, 266, 361-395.	2.9	139
120	Conductance of channels opened by acetylcholine-like drugs in muscle end-plate. Nature, 1975, 253, 204-206.	27.8	122
121	Mechanisms of Drug Action at the Voluntary Muscle Endplate. Annual Review of Pharmacology, 1975, 15, 307-325.	4.4	65
122	Biostatistics in Pharmacology. Volumes I and II.. Journal of the Royal Statistical Society Series A (General), 1974, 137, 439.	0.6	0
123	The binding of tetrodotoxin and Î±â€bungarotoxin to normal and denervated mammalian muscle. Journal of Physiology, 1974, 240, 199-226.	2.9	71