Alistair Mathie

List of Publications by Year
in descending order

114 papers	9,692 citations	41323 49 h-index	39638 94 g-index
116 all docs	116 docs citations	116 times ranked	10021 citing authors

#	Article	IF	Citations
1	Guide to Receptors and Channels (GRAC), 5th edition. British Journal of Pharmacology, 2011, 164, S1-324.	2.7	827
2	Guide to Receptors and Channels (GRAC), 3rd edition. British Journal of Pharmacology, 2008, 153, S1-209.	2.7	616
3	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: G proteinâ€coupled receptors. British Journal of Pharmacology, 2019, 176, S21-S141.	2.7	519
4	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Enzymes. British Journal of Pharmacology, 2019, 176, S297-S396.	2.7	423
5	Guide to Receptors and Channels (GRAC), 4th edition. British Journal of Pharmacology, 2009, 158, S1-254.	2.7	410
6	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: G proteinâ€coupled receptors. British Journal of Pharmacology, 2021, 178, S27-S156.	2.7	337
7	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Enzymes. British Journal of Pharmacology, 2021, 178, S313-S411.	2.7	320
8	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Introduction and Other Protein Targets. British Journal of Pharmacology, 2019, 176, S1-S20.	2.7	295
9	Two-Pore-Domain K+ Channels Are a Novel Target for the Anesthetic Gases Xenon, Nitrous Oxide, and Cyclopropane. Molecular Pharmacology, 2004, 65, 443-452.	1.0	294
10	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. British Journal of Pharmacology, 2019, 176, S142-S228.	2.7	242
11	A functional role for the two-pore domain potassium channel TASK-1 in cerebellar granule neurons. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3614-3618.	3.3	240
12	Zinc and copper: Pharmacological probes and endogenous modulators of neuronal excitability. , 2006, 111, 567-583.		213
13	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. British Journal of Pharmacology, 2021, 178, S157-S245.	2.7	187
14	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Introduction and Other Protein Targets. British Journal of Pharmacology, 2021, 178, S1-S26.	2.7	183
15	Voltage-activated potassium channels in mammalian neurons and their block by novel pharmacological agents. General Pharmacology, 1998, 30, 13-24.	0.7	171
16	Inhibition of the human two-pore domain potassium channel, TREK-1, by fluoxetine and its metabolite norfluoxetine. British Journal of Pharmacology, 2005, 144, 821-829.	2.7	167
17	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Transporters. British Journal of Pharmacology, 2019, 176, S397-S493.	2.7	166
18	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Catalytic receptors. British Journal of Pharmacology, 2019, 176, S247-S296.	2.7	156

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19	Intracellular Ca2+ buffers disrupt muscarinic suppression of Ca2+ current and M current in rat sympathetic neurons.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 652-656.	3.3	155
20	Characterization of muscarinic receptor subtypes inhibiting Ca2+ current and M current in rat sympathetic neurons.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 9544-9548.	3.3	152
21	Neuronal two-pore-domain potassium channels and their regulation by G protein-coupled receptors. Journal of Physiology, 2007, 578, 377-385.	1.3	150
22	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Catalytic receptors. British Journal of Pharmacology, 2021, 178, S264-S312.	2.7	148
23	Activation of glutamate receptors and glutamate uptake in identified macroglial cells in rat cerebellar cultures.. Journal of Physiology, 1991, 432, 235-258.	1.3	140
24	Guide to Receptors and Channels, 2nd edition (2007 Revision). British Journal of Pharmacology, 2007, 150, S1-S1.	2.7	132
25	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Nuclear hormone receptors. British Journal of Pharmacology, 2019, 176, S229-S246.	2.7	127
26	Modifying the Subunit Composition of TASK Channels Alters the Modulation of a Leak Conductance in Cerebellar Granule Neurons. Journal of Neuroscience, 2005, 25, 11455-11467.	1.7	124
27	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Transporters. British Journal of Pharmacology, 2021, 178, S412-S513.	2.7	114
28	Rectification of currents activated by nicotinic acetylcholine receptors in rat sympathetic ganglion neurones.. Journal of Physiology, 1990, 427, 625-655.	1.3	111
29	Inhibition of N- and L-type calcium channels by muscarinic receptor activation in rat sympathetic neurons. Neuron, 1992, 8, 907-914.	3.8	110
30	TASK-3 Two-Pore Domain Potassium Channels Enable Sustained High-Frequency Firing in Cerebellar Granule Neurons. Journal of Neuroscience, 2007, 27, 9329-9340.	1.7	109
31	Characterization of the hyperpolarization-activated chloride current in dissociated rat sympathetic neurons. Journal of Physiology, 1998, 506, 665-678.	1.3	103
32	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Nuclear hormone receptors. British Journal of Pharmacology, 2021, 178, S246-S263.	2.7	100
33	A nonâ€inactivating K+ current sensitive to muscarinic receptor activation in rat cultured cerebellar granule neurons.. Journal of Physiology, 1996, 491, 401-412.	1.3	88
34	5-HT3 receptor channels in dissociated rat superior cervical ganglion neurons.. Journal of Physiology, 1992, 448, 237-256.	1.3	82
35	The in Vivo Contributions of TASK-1-Containing Channels to the Actions of Inhalation Anesthetics, the Î±2 Adrenergic Sedative Dexmedetomidine, and Cannabinoid Agonists. Journal of Pharmacology and Experimental Therapeutics, 2006, 317, 615-626.	1.3	82
36	Two-pore domain potassium channels: potential therapeutic targets for the treatment of pain. Pflugers Archiv European Journal of Physiology, 2015, 467, 931-943.	1.3	80

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37	Conductance and kinetic properties of single nicotinic acetylcholine receptor channels in rat sympathetic neurones.. Journal of Physiology, 1991, 439, 717-750.	1.3	75
38	Selective block of the human 2-P domain potassium channel, TASK-3, and the native leak potassium current, IKSO, by zinc. Journal of Physiology, 2004, 560, 51-62.	1.3	71
39	SYMPOSIUM REVIEW: Gating of two pore domain potassium channels. Journal of Physiology, 2010, 588, 3149-3156.	1.3	68
40	TiPS nomenclature supplement 2001. Trends in Pharmacological Sciences, 2001, 22, 1.	4.0	64
41	Single-channel and whole-cell currents evoked by acetylcholine in dissociated sympathetic neurons of the rat. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1987, 232, 239-248.	1.8	61
42	TASK-1 (KCNK3) channels in the lung: from cell biology to clinical implications. European Respiratory Journal, 2017, 50, 1700754.	3.1	60
43	Therapeutic potential of neuronal two-pore domain potassium-channel modulators. Current Opinion in Investigational Drugs, 2007, 8, 555-62.	2.3	60
44	Neuronal ion channels and their sensitivity to extremely low frequency weak electric field effects. Radiation Protection Dosimetry, 2003, 106, 311-315.	0.4	57
45	Nicotinic acetylcholine receptors of nerve and muscle: Functional aspects. Trends in Pharmacological Sciences, 1987, 8, 465-472.	4.0	55
46	Inhibition of neuronal KV potassium currents by the antidepressant drug, fluoxetine. British Journal of Pharmacology, 1999, 128, 1609-1615.	2.7	54
47	Gĵ±q-Mediated Regulation of TASK3 Two-Pore Domain Potassium Channels: The Role of Protein Kinase C. Molecular Pharmacology, 2007, 71, 1666-1675.	1.0	54
48	Guide to Receptors and Channels, 2nd edition. British Journal of Pharmacology, 2006, 147, S1-S1.	2.7	53
49	Influence of the N Terminus on the Biophysical Properties and Pharmacology of TREK1 Potassium Channels. Molecular Pharmacology, 2014, 85, 671-681.	1.0	52
50	Block of potassium currents in rat isolated sympathetic neurones by tricyclic antidepressants and structurally related compounds. British Journal of Pharmacology, 1993, 110, 1126-1132.	2.7	51
51	Ion channels as novel therapeutic targets in the treatment of pain. Journal of Pharmacy and Pharmacology, 2010, 62, 1089-1095.	1.2	51
52	What are the roles of the many different types of potassium channel expressed in cerebellar granule cells?. Cerebellum, 2003, 2, 11-25.	1.4	48
53	Modulation of the gating of the transient outward potassium current of rat isolated cerebellar granule neurons by lanthanum. Pflugers Archiv European Journal of Physiology, 1994, 428, 209-216.	1.3	40
54	Glâ€530159, a novel, selective, mechanosensitive twoâ€poreâ€domain potassium (K_{2P}) channel opener, reduces rat dorsal root ganglion neuron excitability. British Journal of Pharmacology, 2018, 175, 2272-2283.	2.7	40

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55	Identification of a region in the TASK3 two pore domain potassium channel that is critical for its blockade by methanandamide. British Journal of Pharmacology, 2007, 152, 778-786.	2.7	37
56	Dominant Negative Effects of a Non-conducting TREK1 Splice Variant Expressed in Brain*. Journal of Biological Chemistry, 2010, 285, 29295-29304.	1.6	37
57	The role of Ca 2+ stores in the muscarinic inhibition of the K + current I K(SO) in neonatal rat cerebellar granule cells. Journal of Physiology, 2000, 529, 321-331.	1.3	35
58	Pharmacological characterization of a non-inactivating outward current observed in mouse cerebellar Purkinje neurones. British Journal of Pharmacology, 2002, 135, 705-712.	2.7	35
59	The M1P1 Loop of TASK3 K2P Channels Apposes the Selectivity Filter and Influences Channel Function. Journal of Biological Chemistry, 2008, 283, 16985-16992.	1.6	35
60	Characterization and regulation of wildâ€type and mutant TASKâ€1 two pore domain potassium channels indicated in pulmonary arterial hypertension. Journal of Physiology, 2019, 597, 1087-1101.	1.3	35
61	Acetylcholine receptor channels and their block by clonidine in cultured bovine chromaffin cells.. Journal of Physiology, 1988, 402, 255-278.	1.3	34
62	Multiple G-protein-coupled pathways inhibit N-type Ca channels of neurons. Life Sciences, 1995, 56, 989-992.	2.0	32
63	Recovery of Current through Mutated TASK3 Potassium Channels Underlying Birk Barel Syndrome. Molecular Pharmacology, 2014, 85, 397-407.	1.0	32
64	Aristolochic acid, a plant extract used in the treatment of pain and linked to Balkan endemic nephropathy, is a regulator of K2P channels. British Journal of Pharmacology, 2016, 173, 1639-1652.	2.7	30
65	Trafficking of Neuronal Two Pore Domain Potassium Channels. Current Neuropharmacology, 2010, 8, 276-286.	1.4	29
66	Two-Pore Domain Potassium Channels as Drug Targets: Anesthesia and Beyond. Annual Review of Pharmacology and Toxicology, 2021, 61, 401-420.	4.2	29
67	Purinergic and muscarinic receptor activation activates a common calcium entry pathway in rat neocortical neurons and glial cells. Neuropharmacology, 2000, 39, 1768-1778.	2.0	28
68	Terbinafine is a novel and selective activator of the two-pore domain potassium channel TASK3. Biochemical and Biophysical Research Communications, 2017, 493, 444-450.	1.0	27
69	Effects on K⁺ currents in rat cerebellar granule neurones of a membraneâ€permeable analogue of the calcium chelator BAPTA. British Journal of Pharmacology, 1996, 118, 1772-1778.	2.7	24
70	Potent block of potassium currents in rat isolated sympathetic neurones by the uncharged form of amitriptyline and related tricyclic compounds. British Journal of Pharmacology, 1995, 116, 2191-2200.	2.7	23
71	Effects of the ventilatory stimulant, doxapram on human TASKâ€3 (KCNK9, K2P9.1) channels and TASKâ€1 (KCNK3, K2P3.1) channels. Acta Physiologica, 2020, 228, e13361.	1.8	20
72	Facilitation at single release sites of a sympathetic neuroeffector junction in the mouse.. Journal of Physiology, 1984, 349, 57-71.	1.3	19

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73	Ion channels activated by acetylcholine and Î³-aminobutyric acid in freshly dissociated sympathetic neurones of the rat. Neuroscience Letters, 1986, 66, 275-280.	1.0	19
74	Inhibition by inorganic ions of a sustained calcium signal evoked by activation of mGlu5 receptors in rat cortical neurons and glia. British Journal of Pharmacology, 1998, 125, 1551-1561.	2.7	19
75	HIV transgene expression impairs K⁺ channel function in the pulmonary vasculature. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L711-L723.	1.3	19
76	Guide to Receptors and Channels, 1st Edition (2005 revision). British Journal of Pharmacology, 2005, 144, S1-S2.	2.7	17
77	Pranlukast is a novel small molecule activator of the two-pore domain potassium channel TREK2. Biochemical and Biophysical Research Communications, 2019, 520, 35-40.	1.0	16
78	Activation of TREK currents by riluzole in three subgroups of cultured mouse nodose ganglion neurons. PLoS ONE, 2018, 13, e0199282.	1.1	15
79	Pharmacological Approaches to Studying Potassium Channels. Handbook of Experimental Pharmacology, 2021, 267, 83-111.	0.9	12
80	Interactions between the effects of yohimbine, clonidine and [Ca]_o on the electrical response of the mouse vas deferens. British Journal of Pharmacology, 1986, 88, 807-814.	2.7	11
81	Pharmacists detecting atrial fibrillation (PDAF) in primary care during the influenza vaccination season: a multisite, cross-sectional screening protocol. BMJ Open, 2018, 8, e021121.	0.8	11
82	Is eag the answer to the M-current?. Trends in Neurosciences, 1997, 20, 14.	4.2	10
83	Activation of group I metabotropic glutamate receptors elicits pH changes in cultured rat cortical glia and neurons. Neuroscience, 1998, 86, 1109-1120.	1.1	10
84	Inhibition of delayed rectifier K+conductance in cultured rat cerebellar granule neurons by activation of calcium-permeable AMPA receptors. European Journal of Neuroscience, 2000, 12, 935-944.	1.2	10
85	Opportunistic screening for atrial fibrillation by clinical pharmacists in UK general practice during the influenza vaccination season: A cross-sectional feasibility study. PLoS Medicine, 2020, 17, e1003197.	3.9	10
86	TRESK is a key regulator of nocturnal suprachiasmatic nucleus dynamics and light adaptive responses. Nature Communications, 2020, 11, 4614.	5.8	10
87	Enhancement of TWIK-related Acid-sensitive Potassium Channel 3 (TASK3) Two-pore Domain Potassium Channel Activity by Tumor Necrosis Factor Î±. Journal of Biological Chemistry, 2014, 289, 1388-1401.	1.6	9
88	Heterologous Expression of Ion Channels in Mammalian Cell Lines. Methods in Molecular Biology, 2021, 2188, 51-65.	0.4	8
89	Î±â€ADRENORECEPTORS AND FACILITATION AT A SYMPATHETIC NEUROEFFECTOR JUNCTION. Autonomic and Autacoid Pharmacology, 1984, 4, 53-58.	0.7	7
90	Inhibition of the potassium current IKSO, in cerebellar granule cells, by the inhibitors of MEK1 activation, PD 98059 and U 0126. Neuropharmacology, 2002, 42, 221-228.	2.0	6

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91	Enhanced inflammatory cell profiles in schistosomiasisâ€induced pulmonary vascular remodeling. Pulmonary Circulation, 2017, 7, 244-252.	0.8	6
92	Gain and loss of TASK3 channel function and its regulation by novel variation cause KCNK9 imprinting syndrome. Genome Medicine, 2022, 14, .	3.6	6
93	Pharmacologically reversible, loss of function mutations in the TM2 and TM4 inner pore helices of TREK-1 K2P channels. Scientific Reports, 2019, 9, 12394.	1.6	5
94	A â€œTarget Classâ€•Screen to Identify Activators of Two-Pore Domain Potassium (K2P) Channels. SLAS Discovery, 2021, 26, 428-438.	1.4	5
95	Infection in pulmonary vascular diseases: Would another consortium really be the way to go?. Global Cardiology Science & Practice, 2019, 2019, 1.	0.3	5
96	Pharmacists detecting atrial fibrillation in general practice: a qualitative focus group study. BJGP Open, 2020, 4, bjgpopen20X101042.	0.9	5
97	GuideToPharmacology.org â€“ an update. British Journal of Pharmacology, 2012, 167, 697-698.	2.7	3
98	The Role of the K2P Channels TASKâ€1, TREKâ€1 and TREKâ€2 in the Use of Treprostinil Therapy in Pulmonary Arterial Hypertension. FASEB Journal, 2018, 32, 567.6.	0.2	3
99	What are the roles of the many different types of potassium channel expressed in cerebellar granule cells?. Cerebellum, 2003, 2, 11-25.	1.4	3
100	Chapter 5 Function of nicotinic synapses. Progress in Brain Research, 1990, 84, 43-50.	0.9	1
101	Background potassium channels move into focus. Journal of Physiology, 2002, 542, 334-334.	1.3	1
102	The Prostacyclin Analogue, Treprostinil, Used in the Treatment of Pulmonary Arterial Hypertension, is a Potent Antagonist of TREK-1 and TREK-2 Potassium Channels. Frontiers in Pharmacology, 2021, 12, 705421.	1.6	1
103	Regulation of TREK1 two pore domain potassium channels by citalopram. FASEB Journal, 2013, 27, 913.31.	0.2	1
104	Methods in neurosciences volume 19: Ion channels of excitable cells. Neuroscience, 1995, 64, 845.	1.1	0
105	Enhancement of Current through Trek1 Two Pore Domain Channels by Flufenamic Acid. Biophysical Journal, 2014, 106, 748a.	0.2	0
106	Block of TREK and TRESK K2P channels by lamotrigine and two derivatives sipatrigine and CEN-092. Biochemistry and Biophysics Reports, 2021, 26, 101021.	0.7	0
107	MAMMALIAN TWO-PORE DOMAIN POTASSIUM CHANNELS. , 2001, , 5-8.		0
108	Title is missing!. , 2020, 17, e1003197.		0

#	Article	IF	Citations
109	Title is missing!. , 2020, 17, e1003197.		0
110	Title is missing!. , 2020, 17, e1003197.		0
111	Title is missing!. , 2020, 17, e1003197.		0
112	Title is missing!. , 2020, 17, e1003197.		0
113	Title is missing!. , 2020, 17, e1003197.		0
114	Neuronal Potassium Channels. , 2009, , 2792-2797.		0