

# Peter Anthony McNaughton

## List of Publications by Year in descending order

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95  
papers

10,052  
citations

36271

51  
h-index

49868

87  
g-index

99  
all docs

99  
docs citations

99  
times ranked

6578  
citing authors

#	ARTICLE	IF	CITATIONS
1	NGF rapidly increases membrane expression of TRPV1 heat-gated ion channels. <i>EMBO Journal</i> , 2005, 24, 4211-4223.	3.5	637
2	Protein kinase C activation potentiates gating of the vanilloid receptor VR1 by capsaicin, protons, heat and anandamide. <i>Journal of Physiology</i> , 2001, 534, 813-825.	1.3	453
3	A novel heat-activated current in nociceptive neurons and its sensitization by bradykinin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 15435-15439.	3.3	398
4	Specific Involvement of PKC- $\beta$ in Sensitization of the Neuronal Response to Painful Heat. <i>Neuron</i> , 1999, 23, 617-624.	3.8	389
5	Extrusion of calcium from rod outer segments is driven by both sodium and potassium gradients. <i>Nature</i> , 1989, 337, 740-743.	13.7	363
6	HCN2 Ion Channels Play a Central Role in Inflammatory and Neuropathic Pain. <i>Science</i> , 2011, 333, 1462-1466.	6.0	297
7	Signalling pathways involved in the sensitisation of mouse nociceptive neurones by nerve growth factor. <i>Journal of Physiology</i> , 2003, 551, 433-446.	1.3	291
8	Spatial spread of activation and background desensitization in toad rod outer segments. <i>Journal of Physiology</i> , 1981, 319, 463-496.	1.3	280
9	The ionic selectivity and calcium dependence of the light-sensitive pathway in toad rods.. <i>Journal of Physiology</i> , 1985, 358, 447-468.	1.3	259
10	The thermo-TRP ion channel family: properties and therapeutic implications. <i>British Journal of Pharmacology</i> , 2012, 165, 787-801.	2.7	236
11	Proinflammatory Mediators Modulate the Heat-Activated Ion Channel TRPV1 via the Scaffolding Protein AKAP79/150. <i>Neuron</i> , 2008, 59, 450-461.	3.8	234
12	Acid-Induced Pain and Its Modulation in Humans. <i>Journal of Neuroscience</i> , 2004, 24, 10974-10979.	1.7	220
13	Light response of vertebrate photoreceptors. <i>Physiological Reviews</i> , 1990, 70, 847-883.	13.1	213
14	Anandamide acts as an intracellular messenger amplifying Ca <sup>2+</sup> influx via TRPV1 channels. <i>EMBO Journal</i> , 2005, 24, 3026-3037.	3.5	210
15	The TRPM2 ion channel is required for sensitivity to warmth. <i>Nature</i> , 2016, 536, 460-463.	13.7	207
16	Response properties of cones from the retina of the tiger salamander.. <i>Journal of Physiology</i> , 1991, 433, 561-587.	1.3	188
17	Measurement of the intracellular free calcium concentration in salamander rods. <i>Nature</i> , 1986, 322, 261-263.	13.7	185
18	Kinetics and energetics of calcium efflux from intact squid giant axons.. <i>Journal of Physiology</i> , 1976, 259, 103-144.	1.3	181

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19	Characterization of the primary spinal afferent innervation of the mouse colon using retrograde labelling. <i>Neurogastroenterology and Motility</i> , 2004, 16, 113-124.	1.6	180
20	Calcium homeostasis in the outer segments of retinal rods from the tiger salamander.. <i>Journal of Physiology</i> , 1992, 455, 111-142.	1.3	178
21	Effect of ions on the light-sensitive current in retinal rods. <i>Nature</i> , 1981, 292, 502-505.	13.7	175
22	Electrogenic properties of the Na:Ca exchange. <i>Journal of Membrane Biology</i> , 1990, 113, 177-191.	1.0	172
23	Inflammatory Pain: The Cellular Basis of Heat Hyperalgesia. <i>Current Neuropharmacology</i> , 2006, 4, 197-206.	1.4	161
24	Ion channels gated by heat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 7658-7663.	3.3	160
25	Activation of the TRPV4 Ion Channel Is Enhanced by Phosphorylation. <i>Journal of Biological Chemistry</i> , 2009, 284, 27884-27891.	1.6	157
26	Role of the hyperpolarization-activated current $I_{h}$ in somatosensory neurons. <i>Journal of Physiology</i> , 2008, 586, 5911-5929.	1.3	139
27	Peripheral pain mechanisms. <i>Current Opinion in Neurobiology</i> , 1997, 7, 493-499.	2.0	134
28	Direct inhibition of the cold-activated TRPM8 ion channel by $G_{i/q}$ . <i>Nature Cell Biology</i> , 2012, 14, 851-858.	4.6	134
29	Plasma albumin is a potent trigger of calcium signals and DNA synthesis in astrocytes.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 1426-1430.	3.3	133
30	Temporal and spatial characteristics of the voltage response of rods in the retina of the snapping turtle. <i>Journal of Physiology</i> , 1980, 300, 213-250.	1.3	132
31	Arachidonic acid potentiates acid-sensing ion channels in rat sensory neurons by a direct action. <i>Neuroscience</i> , 2007, 145, 686-698.	1.1	131
32	Modulation of Acid-Sensing Ion Channel Activity by Nitric Oxide. <i>Journal of Neuroscience</i> , 2007, 27, 13251-13260.	1.7	131
33	Protein Kinase C-mediated Phosphorylation Does Not Regulate Drug Transport by the Human Multidrug Resistance P-glycoprotein. <i>Journal of Biological Chemistry</i> , 1996, 271, 13668-13674.	1.6	118
34	Modulation of temperature-sensitive TRP channels. <i>Seminars in Cell and Developmental Biology</i> , 2006, 17, 638-645.	2.3	114
35	Confocal microscopy: applications in neurobiology. <i>Trends in Neurosciences</i> , 1988, 11, 346-351.	4.2	109
36	Effect of ions on retinal rods from <i>Bufo marinus</i> .. <i>Journal of Physiology</i> , 1984, 350, 649-680.	1.3	106

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37	HCN2 ion channels: an emerging role as the pacemakers of pain. <i>Trends in Pharmacological Sciences</i> , 2012, 33, 456-463.	4.0	106
38	Ion transport by the Na-Ca exchange in isolated rod outer segments.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 4548-4552.	3.3	100
39	Magnetic characterization of isolated candidate vertebrate magnetoreceptor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12022-12027.	3.3	98
40	Direct evidence for functional TRPV1/TRPA1 heteromers. <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 2229-2241.	1.3	98
41	A surprising property of electrical spread in the network of rods in the turtle's retina. <i>Nature</i> , 1978, 274, 562-565.	13.7	94
42	Inflammatory and neuropathic pain are rapidly suppressed by peripheral block of hyperpolarisation-activated cyclic nucleotide-gated ion channels. <i>Pain</i> , 2014, 155, 1708-1719.	2.0	94
43	Sensitization of Transient Receptor Potential Vanilloid 1 by the Prokineticin Receptor Agonist Bv8. <i>Journal of Neuroscience</i> , 2006, 26, 5109-5116.	1.7	93
44	Hyperpolarization-activated cyclic nucleotide-gated 2 (HCN2) ion channels drive pain in mouse models of diabetic neuropathy. <i>Science Translational Medicine</i> , 2017, 9, eaam6072.	5.8	90
45	Functional bradykinin B1 receptors are expressed in nociceptive neurones and are upregulated by the neurotrophin GDNF. <i>Journal of Physiology</i> , 2004, 560, 391-401.	1.3	89
46	Modulation of single-channel properties of TRPV1 by phosphorylation. <i>Journal of Physiology</i> , 2010, 588, 3743-3756.	1.3	74
47	The effects of calcium on outward membrane currents in the cardiac Purkinje fibre.. <i>Journal of Physiology</i> , 1979, 289, 347-373.	1.3	71
48	The influence of extracellular calcium binding on the calcium efflux from squid axons.. <i>Journal of Physiology</i> , 1978, 276, 127-150.	1.3	70
49	Upregulation of Bradykinin B2 Receptor Expression by Neurotrophic Factors and Nerve Injury in Mouse Sensory Neurons. <i>Molecular and Cellular Neurosciences</i> , 2002, 19, 186-200.	1.0	69
50	Protease Activated Receptors 1 and 4 Sensitize TRPV1 in Nociceptive Neurones. <i>Molecular Pain</i> , 2010, 6, 1744-8069-6-61.	1.0	69
51	Disrupting Sensitization of Transient Receptor Potential Vanilloid Subtype 1 Inhibits Inflammatory Hyperalgesia. <i>Journal of Neuroscience</i> , 2013, 33, 7407-7414.	1.7	67
52	The effects of phosphodiesterase inhibitors and lanthanum ions on the light-sensitive current of toad retinal rods.. <i>Journal of Physiology</i> , 1986, 370, 91-109.	1.3	48
53	HCN2 ion channels: basic science opens up possibilities for therapeutic intervention in neuropathic pain. <i>Biochemical Journal</i> , 2016, 473, 2717-2736.	1.7	48
54	Multidrug transporters in prokaryotic and eukaryotic cells: physiological functions and transport mechanisms. <i>Molecular Membrane Biology</i> , 2001, 18, 97-103.	2.0	47

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55	Avian magnetite-based magnetoreception: a physiologist's perspective. <i>Journal of the Royal Society Interface</i> , 2010, 7, S193-205.	1.5	45
56	Functional lipidomics. Calcium-independent activation of endocannabinoid/endovanilloid lipid signalling in sensory neurons by protein kinases C and A and thrombin. <i>Neuropharmacology</i> , 2008, 55, 1274-1279.	2.0	44
57	Proton binding sites involved in the activation of acid-sensing ion channel ASIC2a. <i>Neuroscience Letters</i> , 2007, 426, 12-17.	1.0	43
58	Mapping the Binding Site of TRPV1 on AKAP79: Implications for Inflammatory Hyperalgesia. <i>Journal of Neuroscience</i> , 2013, 33, 9184-9193.	1.7	40
59	Sensitization of TRPA1 by Protein Kinase A. <i>PLoS ONE</i> , 2017, 12, e0170097.	1.1	40
60	Plasma albumin induces calcium waves in rat cortical astrocytes. , 1997, 19, 343-351.		37
61	Regulation of firing frequency in nociceptive neurons by pro-inflammatory mediators. <i>Experimental Brain Research</i> , 2009, 196, 45-52.	0.7	37
62	Modulation of the synaptic Ca <sup>2+</sup> current in salamander photoreceptors by polyunsaturated fatty acids and retinoids. <i>Journal of Physiology</i> , 2000, 529, 333-344.	1.3	33
63	Agonist-induced sensitisation of the irritant receptor ion channel TRPA1. <i>Journal of Physiology</i> , 2016, 594, 6643-6660.	1.3	31
64	HCN3 ion channels: roles in sensory neuronal excitability and pain. <i>Journal of Physiology</i> , 2019, 597, 4661-4675.	1.3	31
65	Why Pain Gets Worse: The Mechanism of Heat Hyperalgesia. <i>Journal of General Physiology</i> , 2006, 128, 491-493.	0.9	30
66	K <sup>+</sup> and Cl <sup>-</sup> currents in enterocytes isolated from guinea-pig small intestinal villi. <i>Journal of Physiology</i> , 1991, 434, 351-367.	1.3	29
67	Enrichment of the fraction of nociceptive neurones in cultures of primary sensory neurones. <i>Journal of Neuroscience Methods</i> , 1997, 71, 191-198.	1.3	27
68	TRPM2 and warmth sensation. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 787-798.	1.3	26
69	The Role of Cold-Sensitive Ion Channels in Peripheral Thermosensation. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 262.	1.8	26
70	Spread of activation and desensitisation in rod outer segments. <i>Nature</i> , 1980, 283, 85-87.	13.7	24
71	Albumin elicits calcium signals from astrocytes in brain slices from neonatal rat cortex. <i>Journal of Physiology</i> , 1998, 509, 711-716.	1.3	23
72	Heat detection by the TRPM2 ion channel. <i>Nature</i> , 2020, 584, E5-E12.	13.7	23

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73	Temperature dependence of the light response in rat rods.. Journal of Physiology, 1993, 462, 465-481.	1.3	22
74	Oligodendrocyte HCN2 Channels Regulate Myelin Sheath Length. Journal of Neuroscience, 2021, 41, 7954-7964.	1.7	20
75	Net charge transport during sodium-dependent calcium extrusion in isolated salamander rod outer segments.. Journal of General Physiology, 1991, 98, 479-495.	0.9	19
76	Possible involvement of GTP-binding proteins in the deactivation of an inwardly rectifying K <sup>+</sup> current in enterocytes isolated from guinea-pig small intestine. Pflugers Archiv European Journal of Physiology, 1990, 417, 240-242.	1.3	17
77	A randomised, double-blind, placebo-controlled crossover trial of the influence of the HCN channel blocker ivabradine in a healthy volunteer pain model: an enriched population trial. Pain, 2019, 160, 2554-2565.	2.0	17
78	Lysophospholipids trigger calcium signals but not DNA synthesis in cortical astrocytes. , 1999, 28, 272-276.		15
79	Manipulation of synaptic sign and strength with divalent cations in the vertebrate retina: pushing the limits of tonic, chemical neurotransmission. European Journal of Neuroscience, 1999, 11, 4134-4138.	1.2	14
80	Glial cell responses to lipids bound to albumin in serum and plasma. Progress in Brain Research, 2001, 132, 367-374.	0.9	14
81	TRPM2 ion channels steer neutrophils towards a source of hydrogen peroxide. Scientific Reports, 2021, 11, 9339.	1.6	14
82	Rods, cones and calcium. Cell Calcium, 1995, 18, 275-284.	1.1	13
83	Sensitisation of Nociceptors “ What are Ion Channels Doing?. Open Pain Journal, 2010, 3, 82-96.	0.4	13
84	Sensitisation of TRPV1 in rat sensory neurones by activation of SNSRs. Neuroscience Letters, 2007, 422, 1-6.	1.0	12
85	Current perspectives on the modulation of thermo-TRP channels: new advances and therapeutic implications. Expert Review of Clinical Pharmacology, 2010, 3, 687-704.	1.3	10
86	Role of hyperpolarization-activated cyclic nucleotide-gated ion channels in neuropathic pain: a proof-of-concept study of ivabradine in patients with chronic peripheral neuropathic pain. Pain Reports, 2021, 6, e967.	1.4	10
87	Calcium regulation in neurons: transport processes. Current Opinion in Neurobiology, 1991, 1, 98-104.	2.0	7
88	How anchoring proteins shape pain. , 2014, 143, 316-322.		6
89	Hidden Multivalency in Phosphatase Recruitment by a Disordered AKAP Scaffold. Journal of Molecular Biology, 2022, 434, 167682.	2.0	5
90	Artemisinin inhibits neutrophil and macrophage chemotaxis, cytokine production and NET release. Scientific Reports, 2022, 12, .	1.6	2

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91	TRP Channels in the Sensation of Heat. , 2015, , 165-183.		1
92	The effects of quinidine on sodium-dependent calcium efflux in isolated rod photoreceptors of the salamander retina. Pflugers Archiv European Journal of Physiology, 1990, 417, 168-173.	1.3	0
93	The Cellular and Molecular Basis of the Detection of Pain. Cell and Molecular Response To Stress, 2002, , 105-119.	0.4	0
94	Pain Transduction: Gating and Modulation of Ion Channels. , 2005, , 251-270.		0
95	Neuroscience cuts will hurt key areas. Nature, 2011, 471, 36-37.	13.7	0