John N Wood

List of Publications by Year
in descending order

144	20,249	66	138
papers	citations	h-index	g-index
		14655	10734

155	155	155	13383
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Calcium imaging for analgesic drug discovery. Neurobiology of Pain (Cambridge, Mass), 2022, 11, 100083.	2.5	7
2	Genetic pain loss disorders. Nature Reviews Disease Primers, 2022, 8, .	30.5	18
3	Physiologic osteoclasts are not sufficient to induce skeletal pain in mice. European Journal of Pain, 2021, 25, 199-212.	2.8	5
4	Silent cold-sensing neurons contribute to cold allodynia in neuropathic pain. Brain, 2021, 144, 1711-1726.	7.6	28
5	A central mechanism of analgesia in mice and humans lacking the sodium channel NaV1.7. Neuron, 2021, 109, 1497-1512.e6.	8.1	42
6	Dorsal Root Ganglia Macrophages Maintain Osteoarthritis Pain. Journal of Neuroscience, 2021, 41, 8249-8261.	3.6	41
7	Tools for analysis and conditional deletion of subsets of sensory neurons. Wellcome Open Research, 2021, 6, 250.	1.8	8
8	Pain, purines and Geoff. Autonomic Neuroscience: Basic and Clinical, 2021, 237, 102902.	2.8	2
9	Osteoarthritis-related nociceptive behaviour following mechanical joint loading correlates with cartilage damage. Osteoarthritis and Cartilage, 2020, 28, 383-395.	1.3	15
10	Sensitization of Cutaneous Primary Afferents in Bone Cancer Revealed by In Vivo Calcium Imaging. Cancers, 2020, 12, 3491.	3.7	6
11	Sensory neuronâ€“derived Na _V 1.7 contributes to dorsal horn neuron excitability. Science Advances, 2020, 6, eaax4568.	10.3	22
12	Molecular mechanisms of cold pain. Neurobiology of Pain (Cambridge, Mass), 2020, 7, 100044.	2.5	42
13	Somatosensation a la mode: plasticity and polymodality in sensory neurons. Current Opinion in Physiology, 2019, 11, 29-34.	1.8	6
14	Cold sensing by Na _V 1.8-positive and Na _V 1.8-negative sensory neurons. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3811-3816.	7.1	52
15	Brain-derived neurotrophic factor derived from sensory neurons plays a critical role in chronic pain. Brain, 2018, 141, 1028-1039.	7.6	116
16	Mapping protein interactions of sodium channel Na _V 1.7 using epitopeâ€tagged geneâ€targeted mice. EMBO Journal, 2018, 37, 427-445.	7.8	54
17	A novel human pain insensitivity disorder caused by a point mutation in ZFHX2. Brain, 2018, 141, 365-376.	7.6	32
18	The Genetics of Pain: Implications for Therapeutics. Annual Review of Pharmacology and Toxicology, 2018, 58, 123-142.	9.4	49

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19	Sodium channels. Brain and Neuroscience Advances, 2018, 2, 239821281881068.	3.4	7
20	Analgesia linked to Nav1.7 loss of function requires Âµ- and Î´-opioid receptors. Wellcome Open Research, 2018, 3, 101.	1.8	21
21	Inhibition of somatosensory mechanotransduction by annexin A6. Science Signaling, 2018, 11, .	3.6	10
22	Distinct transcriptional responses of mouse sensory neurons in models of human chronic pain conditions. Wellcome Open Research, 2018, 3, 78.	1.8	34
23	Pharmacological characterisation of the highly NaV1.7 selective spider venom peptide Pn3a. Scientific Reports, 2017, 7, 40883.	3.3	120
24	Synergistic regulation of serotonin and opioid signaling contributes to pain insensitivity in Na _v 1.7 knockout mice. Science Signaling, 2017, 10, .	3.6	54
25	Visceral and somatic pain modalities reveal Na_V1.7â€independent visceral nociceptive pathways. Journal of Physiology, 2017, 595, 2661-2679.	2.9	61
26	Effects of Tetrodotoxin in Mouse Models of Visceral Pain. Marine Drugs, 2017, 15, 188.	4.6	27
27	In vivo characterization of distinct modality-specific subsets of somatosensory neurons using GCaMP. Science Advances, 2016, 2, e1600990.	10.3	87
28	Near-Perfect Synaptic Integration by Na v 1.7 in Hypothalamic Neurons Regulates Body Weight. Cell, 2016, 165, 1749-1761.	28.9	77
29	Sodium Channels in Pain and Cancer. Advances in Pharmacology, 2016, 75, 153-178.	2.0	30
30	MicroRNA-1-associated effects of neuron-specific brain-derived neurotrophic factor gene deletion in dorsal root ganglia. Molecular and Cellular Neurosciences, 2016, 75, 36-43.	2.2	19
31	Na_v1.7 and other voltage-gated sodium channels as drug targets for pain relief. Expert Opinion on Therapeutic Targets, 2016, 20, 975-983.	3.4	168
32	The Role of Na_v1.9 Channel in the Development of Neuropathic Orofacial Pain Associated with Trigeminal Neuralgia. Molecular Pain, 2015, 11, s12990-015-0076.	2.1	26
33	Endogenous opioids contribute to insensitivity to pain in humans and mice lacking sodium channel Nav1.7. Nature Communications, 2015, 6, 8967.	12.8	150
34	The Fabry disease-associated lipid Lyso-Gb3 enhances voltage-gated calcium currents in sensory neurons and causes pain. Neuroscience Letters, 2015, 594, 163-168.	2.1	73
35	Glycine at the Gateâ€"from Model to Mechanism. Neuron, 2015, 85, 1152-1154.	8.1	1
36	Sodium Channels and Pain. Handbook of Experimental Pharmacology, 2015, 227, 39-56.	1.8	70

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37	From plant extract to molecular panacea: a commentary on Stone (1763) â€˜An account of the success of the bark of the willow in the cure of the aguesâ€™. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140317.	4.0	46
38	Mechanical allodynia. Pflugers Archiv European Journal of Physiology, 2015, 467, 133-139.	2.8	98
39	Regulation of Nav1.7: A Conserved SCN9A Natural Antisense Transcript Expressed in Dorsal Root Ganglia. PLoS ONE, 2015, 10, e0128830.	2.5	28
40	Null mutation in <i>SCN9A</i> in which noxious stimuli can be detected in the absence of pain. Neurology, 2014, 83, 1577-1580.	1.1	7
41	Piezo2 is the major transducer of mechanical forces for touch sensation in mice. Nature, 2014, 516, 121-125.	27.8	660
42	Botulinum toxinâ€a treatment reduces human mechanical pain sensitivity and mechanotransduction. Annals of Neurology, 2014, 75, 591-596.	5.3	47
43	TRPs and Pain. Handbook of Experimental Pharmacology, 2014, 223, 873-897.	1.8	20
44	Pain without Nociceptors? Nav1.7-Independent Pain Mechanisms. Cell Reports, 2014, 6, 301-312.	6.4	141
45	Nociceptive sensory neurons drive interleukin-23-mediated psoriasiform skin inflammation. Nature, 2014, 510, 157-161.	27.8	427
46	ZBTB20 regulates nociception and pain sensation by modulating TRP channel expression in nociceptive sensory neurons. Nature Communications, 2014, 5, 4984.	12.8	26
47	Sodium channel genes in pain-related disorders: phenotypeâ€“genotype associations and recommendations for clinical use. Lancet Neurology, The, 2014, 13, 1152-1160.	10.2	148
48	Significant Determinants of Mouse Pain Behaviour. PLoS ONE, 2014, 9, e104458.	2.5	81
49	Novel Mutations Mapping to the Fourth Sodium Channel Domain of Nav1.7 Result in Variable Clinical Manifestations of Primary Erythromelalgia. NeuroMolecular Medicine, 2013, 15, 265-278.	3.4	56
50	No pain, more gain. Nature Genetics, 2013, 45, 1271-1272.	21.4	9
51	Transient Receptor Potential Channels and Mechanosensation. Annual Review of Neuroscience, 2013, 36, 519-546.	10.7	62
52	Mu Opioid Receptors on Primary Afferent Nav1.8 Neurons Contribute to Opiate-Induced Analgesia: Insight from Conditional Knockout Mice. PLoS ONE, 2013, 8, e74706.	2.5	102
53	Ciguatoxins activate specific cold pain pathways to elicit burning pain from cooling. EMBO Journal, 2012, 31, 3795-3808.	7.8	103
54	Distinct Nav1.7-dependent pain sensations require different sets of sensory and sympathetic neurons. Nature Communications, 2012, 3, 791.	12.8	228

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55	TRPC3 and TRPC6 are essential for normal mechanotransduction in subsets of sensory neurons and cochlear hair cells. Open Biology, 2012, 2, 120068.	3.6	135
56	Neurological perspectives on voltage-gated sodium channels. Brain, 2012, 135, 2585-2612.	7.6	285
57	Noxious mechanosensation â€“ molecules and circuits. Current Opinion in Pharmacology, 2012, 12, 4-8.	3.5	20
58	Nav1.8 expression is not restricted to nociceptors in mouse peripheral nervous system. Pain, 2012, 153, 2017-2030.	4.2	223
59	Sodium Channels and Mammalian Sensory Mechanotransduction. Molecular Pain, 2012, 8, 1744-8069-8-21.	2.1	22
60	Splice Variants of NaV1.7 Sodium Channels Have Distinct Î² Subunit-Dependent Biophysical Properties. PLoS ONE, 2012, 7, e41750.	2.5	16
61	Behavioral Measures of Pain Thresholds. Current Protocols in Mouse Biology, 2011, 1, 383-412.	1.2	58
62	The Roles of Sodium Channels in Nociception: Implications for Mechanisms of Neuropathic Pain. Pain Medicine, 2011, 12, S93-S99.	1.9	141
63	Loss-of-function mutations in sodium channel Nav1.7 cause anosmia. Nature, 2011, 472, 186-190.	27.8	267
64	From transduction to pain sensation: Defining genes, cells, and circuits. Pain, 2011, 152, S16-S19.	4.2	6
65	Genetic ablation of delta opioid receptors in nociceptive sensory neurons increases chronic pain and abolishes opioid analgesia. Pain, 2011, 152, 1238-1248.	4.2	139
66	Temporal Control of Gene Deletion in Sensory Ganglia Using a Tamoxifen-Inducible <i>Advillin-CreERT2</i> Recombinase Mouse. Molecular Pain, 2011, 7, 1744-8069-7-100.	2.1	84
67	Genetic tracing of Nav1.8â€expressing vagal afferents in the mouse. Journal of Comparative Neurology, 2011, 519, 3085-3101.	1.6	100
68	A sensory subpopulation depends on vesicular glutamate transporter 2 for mechanical pain, and together with substance P, inflammatory pain. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5789-5794.	7.1	33
69	Kinetic properties of mechanically activated currents in spinal sensory neurons. Journal of Physiology, 2010, 588, 301-314.	2.9	54
70	Pain channelopathies. Journal of Physiology, 2010, 588, 1897-1904.	2.9	72
71	Genetic variation in SCN10A influences cardiac conduction. Nature Genetics, 2010, 42, 149-152.	21.4	248
72	Small RNAs Control Sodium Channel Expression, Nociceptor Excitability, and Pain Thresholds. Journal of Neuroscience, 2010, 30, 10860-10871.	3.6	152

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73	A Gain-of-Function Mutation in TRPA1 Causes Familial Episodic Pain Syndrome. Neuron, 2010, 66, 671-680.	8.1	376
74	VGLUT2-Dependent Sensory Neurons in the TRPV1 Population Regulate Pain and Itch. Neuron, 2010, 68, 529-542.	8.1	187
75	Nerve Growth Factor and Pain. New England Journal of Medicine, 2010, 363, 1572-1573.	27.0	50
76	Nociceptor-Expressed Ephrin-B2 Regulates Inflammatory and Neuropathic Pain. Molecular Pain, 2010, 6, 1744-8069-6-77.	2.1	43
77	Pain as a channelopathy. Journal of Clinical Investigation, 2010, 120, 3745-3752.	8.2	100
78	Pyramidal cells of rodent presubiculum express a tetrodotoxinâ€insensitive Na⁺ current. Journal of Physiology, 2009, 587, 4249-4264.	2.9	10
79	The mechanosensitive cell line ND-C does not express functional thermoTRP channels. Neuropharmacology, 2009, 56, 1138-1146.	4.1	28
80	GTP upâ€regulated persistent Na⁺ current and enhanced nociceptor excitability require Na_V1.9. Journal of Physiology, 2008, 586, 1077-1087.	2.9	105
81	Sensory neuron voltage-gated sodium channels as analgesic drug targets. Current Opinion in Neurobiology, 2008, 18, 383-388.	4.2	79
82	Proteomic Profiling of Neuromas Reveals Alterations in Protein Composition and Local Protein Synthesis in Hyper-Excitable Nerves. Molecular Pain, 2008, 4, 1744-8069-4-33.	2.1	62
83	Sodium Channels. , 2008, , 89-95.		0
84	Serum Response Factor Mediates NGF-Dependent Target Innervation by Embryonic DRG Sensory Neurons. Neuron, 2008, 58, 532-545.	8.1	116
85	The Cell and Molecular Basis of Mechanical, Cold, and Inflammatory Pain. Science, 2008, 321, 702-705.	12.6	419
86	Pain Genes. PLoS Genetics, 2008, 4, e1000086.	3.5	144
87	Ion Channel Activities Implicated in Pathological Pain. Novartis Foundation Symposium, 2008, , 32-46.	1.1	29
88	Sodium Channels in Primary Sensory Neurons: Relationship to Pain States. Novartis Foundation Symposium, 2008, , 159-172.	1.1	11
89	Touch. Current Topics in Membranes, 2007, 59, 425-465.	0.9	10
90	Mechanisms of Cold Pain. Channels, 2007, 1, 154-160.	2.8	50

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91	FM1-43 is a Permeant Blocker of Mechanosensitive Ion Channels in Sensory Neurons and Inhibits Behavioural Responses to Mechanical Stimuli. Molecular Pain, 2007, 3, 1744-8069-3-1.	2.1	64
92	High-Threshold Mechanosensitive Ion Channels Blocked by a Novel Conopeptide Mediate Pressure-Evoked Pain. PLoS ONE, 2007, 2, e515.	2.5	66
93	Sensory neuron sodium channel Nav1.8 is essential for pain at low temperatures. Nature, 2007, 447, 856-859.	27.8	355
94	Nerve Injury Induces Robust Allodynia and Ectopic Discharges in Nav1.3 Null Mutant Mice. Molecular Pain, 2006, 2, 1744-8069-2-33.	2.1	138
95	Nav 1.8-Null Mice Show Stimulus-Dependent Deficits in Spinal Neuronal Activity. Molecular Pain, 2006, 2, 1744-8069-2-5.	2.1	33
96	Chapter 5 Molecular mechanisms of nociception and pain. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2006, 81, 49-59.	1.8	7
97	Nociceptor-derived brain-derived neurotrophic factor regulates acute and inflammatory but not neuropathic pain. Molecular and Cellular Neurosciences, 2006, 31, 539-548.	2.2	148
98	SCN9A Mutations in Paroxysmal Extreme Pain Disorder: Allelic Variants Underlie Distinct Channel Defects and Phenotypes. Neuron, 2006, 52, 767-774.	8.1	640
99	An SCN9A channelopathy causes congenital inability to experience pain. Nature, 2006, 444, 894-898.	27.8	1,353
100	Tamoxifenâ€inducible Na_V1.8â€CreERT2 recombinase activity in nociceptive neurons of dorsal root ganglia. Genesis, 2006, 44, 364-371.	1.6	25
101	Deletion of Annexin 2 Light Chain p11 in Nociceptors Causes Deficits in Somatosensory Coding and Pain Behavior. Journal of Neuroscience, 2006, 26, 10499-10507.	3.6	51
102	Modulation of sensory neuron mechanotransduction by PKC- and nerve growth factor-dependent pathways. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4699-4704.	7.1	73
103	Voltage-Gated Sodium Channel Blockers; Target Validation and Therapeutic Potential. Current Topics in Medicinal Chemistry, 2005, 5, 529-537.	2.1	72
104	Nociceptor-specific gene deletion using heterozygous NaV1.8-Cre recombinase mice. Pain, 2005, 113, 27-36.	4.2	212
105	Parallel â€œPainâ€•Pathways Arise from Subpopulations of Primary Afferent Nociceptor. Neuron, 2005, 47, 787-793.	8.1	274
106	Neuropathic Pain Develops Normally in Mice Lacking both Na_v1.7 and Na_v1.8. Molecular Pain, 2005, 1, 1744-8069-1-24.	2.1	173
107	Worm Sensation!. Molecular Pain, 2005, 1, 1744-8069-1-8.	2.1	9
108	Acid-sensing ion channels ASIC2 and ASIC3 do not contribute to mechanically activated currents in mammalian sensory neurones. Journal of Physiology, 2004, 556, 691-710.	2.9	229

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109	Electrophysiological characterization of the tetrodotoxin-resistant Na+ channel, Nav1.9, in mouse dorsal root ganglion neurons. Pflugers Archiv European Journal of Physiology, 2004, 449, 76-87.	2.8	45
110	Voltage-gated sodium channels and pain pathways. Journal of Neurobiology, 2004, 61, 55-71.	3.6	337
111	Nociceptor-specific gene deletion reveals a major role for Nav1.7 (PN1) in acute and inflammatory pain. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12706-12711.	7.1	608
112	Identification of binding domains in the sodium channel NaV1.8 intracellular N-terminal region and annexin II light chain p11. FEBS Letters, 2004, 558, 114-118.	2.8	44
113	Ion channel activities implicated in pathological pain. Novartis Foundation Symposium, 2004, 261, 32-40; discussion 40-54.	1.1	13
114	The TTXâ€Resistant Sodium Channel Na v 1.8 (SNS/PN3): Expression and Correlation with Membrane Properties in Rat Nociceptive Primary Afferent Neurons. Journal of Physiology, 2003, 550, 739-752.	2.9	310
115	The Tetrodotoxinâ€Resistant Na + Channel Nav1.8 is Essential for the Expression of Spontaneous Activity in Damaged Sensory Axons of Mice. Journal of Physiology, 2003, 550, 921-926.	2.9	163
116	Sensory neuron proteins interact with the intracellular domains of sodium channel NaV1.8. Molecular Brain Research, 2003, 110, 298-304.	2.3	37
117	GTP-induced tetrodotoxin-resistant Na+ current regulates excitability in mouse and rat small diameter sensory neurones. Journal of Physiology, 2003, 548, 373-382.	2.9	160
118	Deficits in Visceral Pain and Referred Hyperalgesia in Nav1.8 (SNS/PN3)-Null Mice. Journal of Neuroscience, 2002, 22, 8352-8356.	3.6	210
119	Distinct Mechanosensitive Properties of Capsaicin-Sensitive and -Insensitive Sensory Neurons. Journal of Neuroscience, 2002, 22, RC228-RC228.	3.6	177
120	A peripheral nervous system actin-binding protein regulates neurite outgrowth. European Journal of Neuroscience, 2002, 15, 281-290.	2.6	27
121	Annexin II light chain regulates sensory neuron-specific sodium channel expression. Nature, 2002, 417, 653-656.	27.8	238
122	Sodium channels in primary sensory neurons: relationship to pain states. Novartis Foundation Symposium, 2002, 241, 159-68; discussion 168-72, 226-32.	1.1	7
123	Involvement of Na+ channels in pain pathways. Trends in Pharmacological Sciences, 2001, 22, 27-31.	8.7	187
124	Voltage-gated sodium channels. Current Opinion in Pharmacology, 2001, 1, 17-21.	3.5	44
125	A role for the TTX-resistant sodium channel Nav 1.8 in NGF-induced hyperalgesia, but not neuropathic pain. NeuroReport, 2001, 12, 3077-3080.	1.2	200
126	Flanking regulatory sequences of the locus encoding the murine GDNF receptor,c-ret, directs lac Z (?-galactosidase) expression in developing somatosensory system. Developmental Dynamics, 2001, 222, 389-402.	1.8	14

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127	Warm-coding deficits and aberrant inflammatory pain in mice lacking P2X3 receptors. Nature, 2000, 407, 1015-1017.	27.8	421
128	II. Genetic approaches to pain therapy. American Journal of Physiology - Renal Physiology, 2000, 278, G507-G512.	3.4	19
129	Nomenclature of Voltage-Gated Sodium Channels. Neuron, 2000, 28, 365-368.	8.1	946
130	Potent Analgesic Effects of GDNF in Neuropathic Pain States. Science, 2000, 290, 124-127.	12.6	482
131	Molecules that specify modality: Mechanisms of nociception. Journal of Pain, 2000, 1, 19-25.	1.4	3
132	ATP, P2X receptors and pain pathways. Journal of the Autonomic Nervous System, 2000, 81, 289-294.	1.9	79
133	A Novel Persistent Tetrodotoxin-Resistant Sodium Current In SNS-Null And Wild-Type Small Primary Sensory Neurons. Journal of Neuroscience, 1999, 19, RC43-RC43.	3.6	396
134	The tetrodotoxin-resistant sodium channel SNS has a specialized function in pain pathways. Nature Neuroscience, 1999, 2, 541-548.	14.8	739
135	Pain. Current Opinion in Genetics and Development, 1999, 9, 328-332.	3.3	29
136	Sodium channels: from mechanisms to medicines?. Brain Research Bulletin, 1999, 50, 309-310.	3.0	8
137	Trans-splicing of a voltage-gated sodium channel is regulated by nerve growth factor. FEBS Letters, 1999, 445, 177-182.	2.8	65
138	Ligand-gated cation channels of sensory neurons. Biochemical Society Transactions, 1997, 25, 536S-536S.	3.4	0
139	Structure and distribution of a broadly expressed atypical sodium channel. FEBS Letters, 1997, 400, 183-187.	2.8	56
140	A single serine residue confers tetrodotoxin insensitivity on the rat sensory-neuron-specific sodium channel SNS. FEBS Letters, 1997, 409, 49-52.	2.8	73
141	Purinergic receptors: their role in nociception and primary afferent neurotransmission. Current Opinion in Neurobiology, 1996, 6, 526-532.	4.2	338
142	A tetrodotoxin-resistant voltage-gated sodium channel expressed by sensory neurons. Nature, 1996, 379, 257-262.	27.8	1,023
143	A P2X purinoceptor expressed by a subset of sensory neurons. Nature, 1995, 377, 428-431.	27.8	985
144	Peripheral Nervous System-specific Genes Identified by Subtractive cDNA Cloning. Journal of Biological Chemistry, 1995, 270, 21264-21270.	3.4	90