Cheryl L Stucky

List of Publications by Year
in descending order

#	Article	IF	Citations
1	The menthol receptor TRPM8 is the principal detector of environmental cold. Nature, 2007, 448, 204-208.	13.7	1,110
2	Piezo2 is required for Merkel-cell mechanotransduction. Nature, 2014, 509, 622-626.	13.7	590
3	The mammalian sodium channel BNC1 is required for normal touch sensation. Nature, 2000, 407, 1007-1011.	13.7	469
4	Isolectin B₄-Positive and -Negative Nociceptors Are Functionally Distinct. Journal of Neuroscience, 1999, 19, 6497-6505.	1.7	418
5	Chronic hyperalgesia induced by repeated acid injections in muscle is abolished by the loss of ASIC3, but not ASIC1. Pain, 2003, 106, 229-239.	2.0	396
6	The 5-HT₃Subtype of Serotonin Receptor Contributes to Nociceptive Processing via a Novel Subset of Myelinated and Unmyelinated Nociceptors. Journal of Neuroscience, 2002, 22, 1010-1019.	1.7	341
7	Receptive Properties of Mouse Sensory Neurons Innervating Hairy Skin. Journal of Neurophysiology, 1997, 78, 1841-1850.	0.9	330
8	TRPA1 Modulates Mechanotransduction in Cutaneous Sensory Neurons. Journal of Neuroscience, 2009, 29, 4808-4819.	1.7	280
9	Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. Nature, 2016, 534, 494-499.	13.7	239
10	Species and strain differences in rodent sciatic nerve anatomy: Implications for studies of neuropathic pain. Pain, 2008, 136, 188-201.	2.0	237
11	Transcriptional profiling at whole population and single cell levels reveals somatosensory neuron molecular diversity. ELife, 2014, 3, .	2.8	208
12	Point Mutation in trkB Causes Loss of NT4-Dependent Neurons without Major Effects on Diverse BDNF Responses. Neuron, 1998, 21, 335-345.	3.8	180
13	HTR7 Mediates Serotonergic Acute and Chronic Itch. Neuron, 2015, 87, 124-138.	3.8	160
14	Roles of transient receptor potential channels in pain. Brain Research Reviews, 2009, 60, 2-23.	9.1	154
15	Keratinocytes mediate innocuous and noxious touch via ATP-P2X4 signaling. ELife, 2018, 7, .	2.8	143
16	Pharmacological Blockade of TRPA1 Inhibits Mechanical Firing in Nociceptors. Molecular Pain, 2009, 5, 1744-8069-5-19.	1.0	140
17	Differential Response Properties of IB4-Positive and -Negative Unmyelinated Sensory Neurons to Protons and Capsaicin. Journal of Neurophysiology, 2003, 89, 513-524.	0.9	138
18	TRPA1 Mediates Mechanical Sensitization in Nociceptors during Inflammation. PLoS ONE, 2012, 7, e43597.	1.1	136

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19	Transient receptor potential vanilloid 1 mediates pain in mice with severe sickle cell disease. Blood, 2011, 118, 3376-3383.	0.6	133
20	Peripheral inflammation selectively increases TRPV1 function in IB4-positive sensory neurons from adult mouse. Pain, 2005, 115, 37-49.	2.0	132
21	Spinal muscular atrophy astrocytes exhibit abnormal calcium regulation and reduced growth factor production. Glia, 2013, 61, 1418-1428.	2.5	128
22	Patients with sickle cell disease have increased sensitivity to cold and heat. American Journal of Hematology, 2013, 88, 37-43.	2.0	127
23	TRPA1 Mediates Mechanical Currents in the Plasma Membrane of Mouse Sensory Neurons. PLoS ONE, 2010, 5, e12177.	1.1	123
24	Uncovering the Cells and Circuits of Touch in Normal and Pathological Settings. Neuron, 2018, 100, 349-360.	3.8	121
25	Transgenic Expression of a Dominant-Negative ASIC3 Subunit Leads to Increased Sensitivity to Mechanical and Inflammatory Stimuli. Journal of Neuroscience, 2005, 25, 9893-9901.	1.7	115
26	Nociceptor Sensitization Depends on Age and Pain Chronicity. ENeuro, 2016, 3, ENEURO.0115-15.2015.	0.9	105
27	TRPA1 Is Functionally Expressed Primarily by IB4-Binding, Non-Peptidergic Mouse and Rat Sensory Neurons. PLoS ONE, 2012, 7, e47988.	1.1	94
28	Failure of action potential propagation in sensory neurons: mechanisms and loss of afferent filtering in Câ€type units after painful nerve injury. Journal of Physiology, 2013, 591, 1111-1131.	1.3	81
29	The anthelmintic drug praziquantel activates a schistosome transient receptor potential channel. Journal of Biological Chemistry, 2019, 294, 18873-18880.	1.6	81
30	Constitutive Activity at the Cannabinoid CB₁Receptor Is Required for Behavioral Response to Noxious Chemical Stimulation of TRPV1: Antinociceptive Actions of CB1 Inverse Agonists. Journal of Neuroscience, 2008, 28, 11593-11602.	1.7	78
31	TRPC1 contributes to light-touch sensation and mechanical responses in low-threshold cutaneous sensory neurons. Journal of Neurophysiology, 2012, 107, 913-922.	0.9	77
32	Physiological Basis of Tingling Paresthesia Evokedby Hydroxy-Î±-Sanshool. Journal of Neuroscience, 2010, 30, 4353-4361.	1.7	74
33	Innovations and advances in modelling and measuring pain in animals. Nature Reviews Neuroscience, 2022, 23, 70-85.	4.9	72
34	Neurotrophin 4 Is Required for the Survival of a Subclass of Hair Follicle Receptors. Journal of Neuroscience, 1998, 18, 7040-7046.	1.7	71
35	The Low-Affinity Neurotrophin Receptor p75 Regulates the Function But Not the Selective Survival of Specific Subpopulations of Sensory Neurons. Journal of Neuroscience, 1997, 17, 4398-4405.	1.7	69
36	The P2Y agonist UTP activates cutaneous afferent fibers. Pain, 2004, 109, 36-44.	2.0	66

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37	Stomatin, a MEC-2 Like Protein, Is Expressed by Mammalian Sensory Neurons. Molecular and Cellular Neurosciences, 1999, 13, 391-404.	1.0	62
38	Neurotrophin-4. Current Biology, 2002, 12, 1401-1404.	1.8	59
39	A â€˜toothache treeâ€™ alkylamide inhibits AÎ´ mechanonociceptors to alleviate mechanical pain. Journal of Physiology, 2013, 591, 3325-3340.	1.3	59
40	Optogenetic Inhibition of CGRPÎ± Sensory Neurons Reveals Their Distinct Roles in Neuropathic and Incisional Pain. Journal of Neuroscience, 2018, 38, 5807-5825.	1.7	59
41	Chemical Interactions between Fibrosarcoma Cancer Cells and Sensory Neurons Contribute to Cancer Pain. Journal of Neuroscience, 2007, 27, 10289-10298.	1.7	57
42	GFR Î± 2/neurturin signalling regulates noxious heat transduction in isolectin B 4 â€binding mouse sensory neurons. Journal of Physiology, 2002, 545, 43-50.	1.3	55
43	Cold hypersensitivity increases with age in mice with sickle cell disease. Pain, 2014, 155, 2476-2485.	2.0	54
44	Mechanical Sensitization of Cutaneous Sensory Fibers in the Spared Nerve Injury Mouse Model. Molecular Pain, 2013, 9, 1744-8069-9-61.	1.0	52
45	End points for sickle cell disease clinical trials: patient-reported outcomes, pain, and the brain. Blood Advances, 2019, 3, 3982-4001.	2.5	51
46	Postnatal loss of Merkel cells, but not of slowly adapting mechanoreceptors in mice lacking the neurotrophin receptor p75. European Journal of Neuroscience, 1999, 11, 3963-3969.	1.2	50
47	Spinal Nerve Ligation in Mouse Upregulates TRPV1 Heat Function in Injured IB4-Positive Nociceptors. Journal of Pain, 2010, 11, 588-599.	0.7	50
48	Impaired sensory nerve function and axon morphology in mice with diabetic neuropathy. Journal of Neurophysiology, 2011, 106, 905-914.	0.9	50
49	Keratinocytes contribute to normal cold and heat sensation. ELife, 2020, 9, .	2.8	49
50	Human cells and networks of pain: Transforming pain target identification and therapeutic development. Neuron, 2021, 109, 1426-1429.	3.8	47
51	TRPV1, but not TRPA1, in Primary Sensory Neurons Contributes to Cutaneous Incision-Mediated Hypersensitivity. Molecular Pain, 2013, 9, 1744-8069-9-9.	1.0	46
52	Sensory Neuron-Specific Deletion of TRPA1 Results in Mechanical Cutaneous Sensory Deficits. ENeuro, 2017, 4, ENEURO.0069-16.2017.	0.9	46
53	Neuropathic pain in a Fabry disease rat model. JCI Insight, 2018, 3, .	2.3	46
54	A novel mitochondrially-targeted apocynin derivative prevents hyposmia and loss of motor function in the leucine-rich repeat kinase 2 (LRRK2R1441G) transgenic mouse model of Parkinson's disease. Neuroscience Letters, 2014, 583, 159-164.	1.0	45

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55	Stomatin and Sensory Neuron Mechanotransduction. Journal of Neurophysiology, 2007, 98, 3802-3808.	0.9	44
56	Sickle Cell Mice Exhibit Mechanical Allodynia and Enhanced Responsiveness in Light Touch Cutaneous Mechanoreceptors. Molecular Pain, 2012, 8, 1744-8069-8-62.	1.0	44
57	Cannabinoid receptor agonists inhibit depolarization-induced calcium influx in cerebellar granule neurons. Journal of Neurochemistry, 2008, 79, 371-381.	2.1	41
58	Sickle cell disease: a natural model of acute and chronic pain. Pain, 2017, 158, S79-S84.	2.0	41
59	Transient receptor potential canonical 5 mediates inflammatory mechanical and spontaneous pain in mice. Science Translational Medicine, 2021, 13, .	5.8	41
60	Contribution of Transient Receptor Potential Ankyrin 1 to Chronic Pain in Aged Mice With Complete Freund's Adjuvantâ€"Induced Arthritis. Arthritis and Rheumatology, 2014, 66, 2380-2390.	2.9	38
61	Bedding Material Affects Mechanical Thresholds, Heat Thresholds, and Texture Preference. Journal of Pain, 2016, 17, 50-64.	0.7	38
62	NOD-like receptor protein 3 inflammasome drives postoperative mechanical pain in a sex-dependent manner. Pain, 2019, 160, 1794-1816.	2.0	38
63	Piezo2 mechanosensitive ion channel is located to sensory neurons and nonneuronal cells in rat peripheral sensory pathway: implications in pain. Pain, 2021, 162, 2750-2768.	2.0	35
64	A gain-of-function voltage-gated sodium channel 1.8 mutation drives intense hyperexcitability of A- and C-fiber neurons. Pain, 2014, 155, 896-905.	2.0	34
65	The Dynamic TRPA1 Channel: A Suitable Pharmacological Pain Target?. Current Pharmaceutical Biotechnology, 2011, 12, 1689-1697.	0.9	31
66	A Novel Sex-Dependent Target for the Treatment of Postoperative Pain: The NLRP3 Inflammasome. Frontiers in Neurology, 2019, 10, 622.	1.1	31
67	Satellite glial cells in sensory ganglia express functional transient receptor potential ankyrin 1 that is sensitized in neuropathic and inflammatory pain. Molecular Pain, 2020, 16, 174480692092542.	1.0	31
68	Substance P is increased in patients with sickle cell disease and associated with haemolysis and hydroxycarbamide use. British Journal of Haematology, 2016, 175, 237-245.	1.2	30
69	CaMKII Controls Whether Touch Is Painful. Journal of Neuroscience, 2015, 35, 14086-14102.	1.7	29
70	Fabry disease pain: patient and preclinical parallels. Pain, 2021, 162, 1305-1321.	2.0	28
71	Selective antagonism of TRPA1 produces limited efficacy in models of inflammatory- and neuropathic-induced mechanical hypersensitivity in rats. Molecular Pain, 2016, 12, 174480691667776.	1.0	27
72	Children and adolescents with sickle cell disease have worse cold and mechanical hypersensitivity during acute painful events. Pain, 2019, 160, 407-416.	2.0	27

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73	Opportunities for Live Cell FT-Infrared Imaging: Macromolecule Identification with 2D and 3D Localization. International Journal of Molecular Sciences, 2013, 14, 22753-22781.	1.8	26
74	Chemokine (c-c motif) receptor 2 mediates mechanical and cold hypersensitivity in sickle cell disease mice. Pain, 2018, 159, 1652-1663.	2.0	25
75	Chemical Structure and Morphology of Dorsal Root Ganglion Neurons from Naive and Inflamed Mice. Journal of Biological Chemistry, 2014, 289, 34241-34249.	1.6	24
76	Mechanosensory and ATP Release Deficits following Keratin14-Cre-Mediated TRPA1 Deletion Despite Absence of TRPA1 in Murine Keratinocytes. PLoS ONE, 2016, 11, e0151602.	1.1	24
77	A Mouse Model of Postoperative Pain. Bio-protocol, 2019, 9, .	0.2	22
78	AMG2850, a potent and selective TRPM8 antagonist, is not effective in rat models of inflammatory mechanical hypersensitivity and neuropathic tactile allodynia. Naunyn-Schmiedeberg's Archives of Pharmacology, 2015, 388, 465-476.	1.4	21
79	Primary sensory neuron-specific interference of TRPV1 signaling by adeno-associated virus-encoded TRPV1 peptide aptamer attenuates neuropathic pain. Molecular Pain, 2017, 13, 174480691771704.	1.0	19
80	Cutaneous pain in disorders affecting peripheral nerves. Neuroscience Letters, 2021, 765, 136233.	1.0	14
81	Amplified Mechanically Gated Currents in Distinct Subsets of Myelinated Sensory Neurons following In Vivo Inflammation of Skin and Muscle. Journal of Neuroscience, 2015, 35, 9456-9462.	1.7	12
82	Gabapentin alleviates chronic spontaneous pain and acute hypoxiaâ€related pain in a mouse model of sickle cell disease. British Journal of Haematology, 2019, 187, 246-260.	1.2	12
83	Neuronal transient receptor potential (TRP) channels and noxious sensory detection in sickle cell disease. Neuroscience Letters, 2019, 694, 184-191.	1.0	12
84	Repurposing a leukocyte elastase inhibitor for neuropathic pain. Nature Medicine, 2015, 21, 429-430.	15.2	9
85	Loosening Painâ€™s Grip by Tightening TRPV1-TRPA1 Interactions. Neuron, 2015, 85, 661-663.	3.8	8
86	Characterization of a mouse model of sickle cell trait: parallels to human trait and a novel finding of cutaneous sensitization. British Journal of Haematology, 2017, 179, 657-666.	1.2	8
87	Peripheral nerve pathology in sickle cell disease mice. Pain Reports, 2019, 4, e765.	1.4	8
88	Quantitative Top-Down Mass Spectrometry Identifies Proteoforms Differentially Released during Mechanical Stimulation of Mouse Skin. Journal of Proteome Research, 2018, 17, 2635-2648.	1.8	7
89	Sensory-specific peripheral nerve pathology in a rat model of Fabry disease. Neurobiology of Pain (Cambridge, Mass), 2021, 10, 100074.	1.0	6
90	Blocking COX-2 for sickle cell pain relief. Blood, 2019, 133, 1924-1925.	0.6	4

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91	Contextual control of conditioned pain tolerance and endogenous analgesic systems. ELife, 2022, 11, .	2.8	4
92	Patients with Sickle Cell Disease Have Increased Sensitivity to Cold and Heat Stimuli, 2. Blood, 2011, 118, 2116-2116.	0.6	2
93	Dietary Supplementation with Docosahexanoic Acid (DHA) Improves RBC Flexibility and Reduces Cold Hypersensitivity in Mice with Sickle Cell Disease.. Blood, 2012, 120, 2116-2116.	0.6	1
94	When soft touch hurts: How hugs become painful after spinal cord injury. , 2022, , 341-351.		0
95	Molecular Biology of the Nociceptor/Transduction. , 2020, , 88-119.		0