Sun-wook Hwang

List of Publications by Year
in descending order

72 papers	11,582 citations	109321 35 h-index	85541 71 g-index
73 all docs	73 docs citations	73 times ranked	8329 citing authors

#	Article	IF	Citations
1	ANKTM1, a TRP-like Channel Expressed in Nociceptive Neurons, Is Activated by Cold Temperatures. Cell, 2003, 112, 819-829.	28.9	2,180
2	Noxious Cold Ion Channel TRPA1 Is Activated by Pungent Compounds and Bradykinin. Neuron, 2004, 41, 849-857.	8.1	1,599
3	Direct activation of capsaicin receptors by products of lipoxygenases: Endogenous capsaicin-like substances. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6155-6160.	7.1	985
4	Bacteria activate sensory neurons that modulate pain and inflammation. Nature, 2013, 501, 52-57.	27.8	684
5	Impaired Thermosensation in Mice Lacking TRPV3, a Heat and Camphor Sensor in the Skin. Science, 2005, 307, 1468-1472.	12.6	654
6	The Pungency of Garlic: Activation of TRPA1 and TRPV1 in Response to Allicin. Current Biology, 2005, 15, 929-934.	3.9	540
7	A Role of TRPA1 in Mechanical Hyperalgesia is Revealed by Pharmacological Inhibition. Molecular Pain, 2007, 3, 1744-8069-3-40.	2.1	360
8	Bradykinin-12-lipoxygenase-VR1 signaling pathway for inflammatory hyperalgesia. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10150-10155.	7.1	359
9	More than cool: Promiscuous relationships of menthol and other sensory compounds. Molecular and Cellular Neurosciences, 2006, 32, 335-343.	2.2	353
10	Capsaicin Binds to the Intracellular Domain of the Capsaicin-Activated Ion Channel. Journal of Neuroscience, 1999, 19, 529-538.	3.6	267
11	An Ion Channel Essential for Sensing Chemical Damage. Journal of Neuroscience, 2007, 27, 11412-11415.	3.6	254
12	Opposite thermosensor in fruitfly and mouse. Nature, 2003, 423, 822-823.	27.8	247
13	Phosphorylation of Vanilloid Receptor 1 by Ca2+/Calmodulin-dependent Kinase II Regulates Its Vanilloid Binding. Journal of Biological Chemistry, 2004, 279, 7048-7054.	3.4	228
14	High-throughput random mutagenesis screen reveals TRPM8 residues specifically required for activation by menthol. Nature Neuroscience, 2006, 9, 493-500.	14.8	228
15	Specific roles for DEG/ENaC and TRP channels in touch and thermosensation in C. elegans nociceptors. Nature Neuroscience, 2010, 13, 861-868.	14.8	225
16	Agonist Recognition Sites in the Cytosolic Tails of Vanilloid Receptor 1. Journal of Biological Chemistry, 2002, 277, 44448-44454.	3.4	145
17	Resolvin D1 attenuates activation of sensory transient receptor potential channels leading to multiple antiâ€nociception. British Journal of Pharmacology, 2010, 161, 707-720.	5.4	144
18	Transient receptor potential V2 expressed in sensory neurons is activated by probenecid. Neuroscience Letters, 2007, 425, 120-125.	2.1	127

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19	tmc-1 encodes a sodium-sensitive channel required for salt chemosensation in C. elegans. Nature, 2013, 494, 95-99.	27.8	126
20	17(R)â€resolvin D1 specifically inhibits transient receptor potential ion channel vanilloid 3 leading to peripheral antinociception. British Journal of Pharmacology, 2012, 165, 683-692.	5.4	125
21	Comparison of growth factor and cytokine expression in patients with degenerated disc disease and herniated nucleus pulposus. Clinical Biochemistry, 2009, 42, 1504-1511.	1.9	121
22	Molecular mechanisms underlying the actions of arachidonic acid-derived prostaglandins on peripheral nociception. Journal of Neuroinflammation, 2020, 17, 30.	7.2	121
23	Farnesyl Pyrophosphate Is a Novel Pain-producing Molecule via Specific Activation of TRPV3. Journal of Biological Chemistry, 2010, 285, 19362-19371.	3.4	111
24	A capsaicin-receptor antagonist, capsazepine, reduces inflammation-induced hyperalgesic responses in the rat: evidence for an endogenous capsaicin-like substance. Neuroscience, 1998, 86, 619-626.	2.3	102
25	Transient receptor potential A1 mediates acetaldehydeâ€evoked pain sensation. European Journal of Neuroscience, 2007, 26, 2516-2523.	2.6	93
26	Isopentenyl pyrophosphate is a novel antinociceptive substance that inhibits TRPV3 and TRPA1 ion channels. Pain, 2011, 152, 1156-1164.	4.2	77
27	Intracellular ATP Increases Capsaicin-Activated Channel Activity by Interacting with Nucleotide-Binding Domains. Journal of Neuroscience, 2000, 20, 8298-8304.	3.6	67
28	Heterogeneity in the Drosophila gustatory receptor complexes that detect aversive compounds. Nature Communications, 2017, 8, 1484.	12.8	58
29	Hot channels in airways: pharmacology of the vanilloid receptor. Current Opinion in Pharmacology, 2002, 2, 235-242.	3.5	57
30	TRPV1 Recapitulates Native Capsaicin Receptor in Sensory Neurons in Association with Fas-Associated Factor 1. Journal of Neuroscience, 2006, 26, 2403-2412.	3.6	53
31	Nociceptive and proâ€inflammatory effects of dimethylallyl pyrophosphate via TRPV4 activation. British Journal of Pharmacology, 2012, 166, 1433-1443.	5.4	51
32	N-(3-acyloxy-2-benzylpropyl)-Nâ€²-(4-hydroxy-3-methoxybenzyl)thiourea derivatives as potent vanilloid receptor agonists and analgesics. Bioorganic and Medicinal Chemistry, 2001, 9, 19-32.	3.0	49
33	Polymodal Ligand Sensitivity of TRPA1 and Its Modes of Interactions. Journal of General Physiology, 2009, 133, 257-262.	1.9	48
34	Emerging Role of Spinal Cord TRPV1 in Pain Exacerbation. Neural Plasticity, 2016, 2016, 1-10.	2.2	40
35	Induction of vascular endothelial growth factor by peptidyl-prolyl isomerase Pin1 in breast cancer cells. Biochemical and Biophysical Research Communications, 2008, 369, 547-553.	2.1	39
36	Endogenous lipid-derived ligands for sensory TRP ion channels and their pain modulation. Archives of Pharmacal Research, 2010, 33, 1509-1520.	6.3	37

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37	Depolarizing Effectors of Bradykinin Signaling in Nociceptor Excitation in Pain Perception. Biomolecules and Therapeutics, 2018, 26, 255-267.	2.4	37
38	Romo1 is a mitochondrial nonselective cation channel with viroporin-like characteristics. Journal of Cell Biology, 2018, 217, 2059-2071.	5.2	36
39	Biological Roles of Resolvins and Related Substances in the Resolution of Pain. BioMed Research International, 2015, 2015, 1-14.	1.9	35
40	Laser Modulation of Heat and Capsaicin Receptor TRPV1 Leads to Thermal Antinociception. Journal of Dental Research, 2010, 89, 1455-1460.	5.2	34
41	Current concepts of nociception: nociceptive molecular sensors in sensory neurons. Current Opinion in Anaesthesiology, 2007, 20, 427-434.	2.0	32
42	Lipoxygenase Inhibitors Suppressed Carrageenan-Induced Fos-Expression and Inflammatory Pain Responses in the Rat. Molecules and Cells, 2009, 27, 417-422.	2.6	31
43	Voluntary Movements as a Possible Non-Reflexive Pain Assay. Molecular Pain, 2013, 9, 1744-8069-9-25.	2.1	31
44	Differences in sensitivity of vanilloid receptor 1 transfected to human embryonic kidney cells and capsaicin-activated channels in cultured rat dorsal root ganglion neurons to capsaicin receptor agonists. Neuroscience Letters, 2001, 299, 135-139.	2.1	30
45	Peripheral serotonin receptor 2B and transient receptor potential channel 4 mediate pruritus to serotonergic antidepressants in mice. Journal of Allergy and Clinical Immunology, 2018, 142, 1349-1352.e16.	2.9	29
46	Resolvins: Endogenously-Generated Potent Painkilling Substances and their Therapeutic Perspectives. Current Neuropharmacology, 2013, 11, 664-676.	2.9	28
47	TICK BITES IN KOREA. International Journal of Dermatology, 1994, 33, 552-555.	1.0	26
48	Peripheral bee venom's anti-inflammatory effect involves activation of the coeruleospinal pathway and sympathetic preganglionic neurons. Neuroscience Research, 2007, 59, 51-59.	1.9	21
49	Nanoparticle Formulation for Controlled Release of Capsaicin. Journal of Nanoscience and Nanotechnology, 2011, 11, 4586-4591.	0.9	21
50	Are Sensory TRP Channels Biological Alarms for Lipid Peroxidation?. International Journal of Molecular Sciences, 2014, 15, 16430-16457.	4.1	21
51	Nociceptive Roles of TRPM2 Ion Channel in Pathologic Pain. Molecular Neurobiology, 2018, 55, 6589-6600.	4.0	21
52	Emerging roles of TRPA1 in sensation of oxidative stress and its implications in defense and danger. Archives of Pharmacal Research, 2013, 36, 783-791.	6.3	20
53	Discovery of Nonpungent Transient Receptor Potential Vanilloid 1 (TRPV1) Agonist as Strong Topical Analgesic. Journal of Medicinal Chemistry, 2020, 63, 418-424.	6.4	20
54	Sensory TRP Channel Interactions with Endogenous Lipids and Their Biological Outcomes. Molecules, 2014, 19, 4708-4744.	3.8	18

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55	TRP-independent inhibition of the phospholipase C pathway by natural sensory ligands. Biochemical and Biophysical Research Communications, 2008, 370, 295-300.	2.1	17
56	Inhibition of sensory neuronal TRPs contributes to anti-nociception by butamben. Neuroscience Letters, 2012, 506, 297-302.	2.1	13
57	Modulation of the Activities of Neuronal Ion Channels by Fatty Acid-Derived Pro-Resolvents. Frontiers in Physiology, 2016, 7, 523.	2.8	12
58	Impairment of proprioceptive movement and mechanical nociception in <scp><i>Drosophila melanogaster</i></scp> larvae lacking Ppk30, a <i>Drosophila</i> member of the Degenerin/Epithelial Sodium Channel family. Genes, Brain and Behavior, 2019, 18, e12545.	2.2	10
59	The Role of Corticotropin-Releasing Hormone at Peripheral Nociceptors: Implications for Pain Modulation. Biomedicines, 2020, 8, 623.	3.2	10
60	The role of oxytocin, vasopressin, and their receptors at nociceptors in peripheral pain modulation. Frontiers in Neuroendocrinology, 2021, 63, 100942.	5.2	9
61	Chitosan functionalized thermosponge nano-carriers for prolonged retention and local delivery of chymopapain at the nucleus pulposus in porcine discs ex vivo. RSC Advances, 2016, 6, 90967-90972.	3.6	8
62	Neuronâ€specific expression of <i>atp6v0c2</i> in zebrafish CNS. Developmental Dynamics, 2010, 239, 2501-2508.	1.8	7
63	P2X1 Receptor-Mediated Ca²⁺ Influx Triggered by DA-9801 Potentiates Nerve Growth Factor-Induced Neurite Outgrowth. ACS Chemical Neuroscience, 2016, 7, 1488-1498.	3.5	7
64	Atypical sensors for direct and rapid neuronal detection of bacterial pathogens. Molecular Brain, 2016, 9, 26.	2.6	7
65	GPR171 Activation Modulates Nociceptor Functions, Alleviating Pathologic Pain. Biomedicines, 2021, 9, 256.	3.2	7
66	FAM19A5l Affects Mustard Oil-Induced Peripheral Nociception in Zebrafish. Molecular Neurobiology, 2021, 58, 4770-4785.	4.0	7
67	Gabapentin Attenuates the Activation of Transient Receptor Potential A1 by Cinnamaldehyde. Experimental Neurobiology, 2009, 18, 1.	1.6	6
68	TRPV4-Mediated Anti-nociceptive Effect of Suberanilohydroxamic Acid on Mechanical Pain. Molecular Neurobiology, 2019, 56, 444-453.	4.0	6
69	Analysis of attachment, proliferation and differentiation response of human mesenchymal stem cell to various implant surfaces coated with rhBMP-2. The Journal of Korean Academy of Prosthodontics, 2012, 50, 44.	0.1	5
70	Endogenous TRPV4 Expression of a Hybrid Neuronal Cell Line N18D3 and Its Utilization to Find a Novel Synthetic Ligand. Journal of Molecular Neuroscience, 2017, 63, 422-430.	2.3	4
71	Editorial (Thematic Issue: Advances in Research on Pharmacological Targets for Pain Relief). Current Neuropharmacology, 2013, 11, 559-559.	2.9	1
72	Nociceptive and Nonnociceptive Roles of TRPV3 and Its â€œDruggabilityâ€. Methods in Pharmacology and Toxicology, 2012, , 237-256.	0.2	0