

Hongzhen Hu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75 papers	2,484 citations	25 h-index	49 g-index
92 ext. papers	3,306 ext. citations	9.7 avg, IF	5.35 L-index

#	Paper	IF	Citations
75	Sensory Neurons Co-opt Classical Immune Signaling Pathways to Mediate Chronic Itch. <i>Cell</i> , 2017 , 171, 217-228.e13	56.2	414
74	Zinc activates damage-sensing TRPA1 ion channels. <i>Nature Chemical Biology</i> , 2009 , 5, 183-90	11.7	178
73	SIGNAL TRANSDUCTION. Membrane potential modulates plasma membrane phospholipid dynamics and K-Ras signaling. <i>Science</i> , 2015 , 349, 873-6	33.3	174
72	Caenorhabditis elegans TRPA-1 functions in mechanosensation. <i>Nature Neuroscience</i> , 2007 , 10, 568-77	25.5	172
71	Enteric nervous system: sensory transduction, neural circuits and gastrointestinal motility. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2020 , 17, 338-351	24.2	134
70	Pore region of TRPV3 ion channel is specifically required for heat activation. <i>Nature Neuroscience</i> , 2008 , 11, 1007-13	25.5	124
69	Activation of TRPA1 channels by fenamate nonsteroidal anti-inflammatory drugs. <i>Pflugers Archiv European Journal of Physiology</i> , 2010 , 459, 579-92	4.6	91
68	Two amino acid residues determine 2-APB sensitivity of the ion channels TRPV3 and TRPV4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1626-31	11.5	86
67	Piezo2 channel-Merkel cell signaling modulates the conversion of touch to itch. <i>Science</i> , 2018 , 360, 530-533	33.3	77
66	Zika Virus Targets Glioblastoma Stem Cells through a SOX2-Integrin Axis. <i>Cell Stem Cell</i> , 2020 , 26, 187-204.e10	18	65
65	Sensory TRP channels contribute differentially to skin inflammation and persistent itch. <i>Nature Communications</i> , 2017 , 8, 980	17.4	59
64	Molecular and cellular mechanisms that initiate pain and itch. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 3201-23	10.3	57
63	Transient receptor potential vanilloid 4-expressing macrophages and keratinocytes contribute differentially to allergic and nonallergic chronic itch. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 141, 608-619.e7	11.5	52
62	Identification of a Rhythmic Firing Pattern in the Enteric Nervous System That Generates Rhythmic Electrical Activity in Smooth Muscle. <i>Journal of Neuroscience</i> , 2018 , 38, 5507-5522	6.6	50
61	Sustained Elevated Adenosine via ADORA2B Promotes Chronic Pain through Neuro-immune Interaction. <i>Cell Reports</i> , 2016 , 16, 106-119	10.6	47
60	Optogenetic Induction of Colonic Motility in Mice. <i>Gastroenterology</i> , 2018 , 155, 514-528.e6	13.3	42
59	A basophil-neuronal axis promotes itch. <i>Cell</i> , 2021 , 184, 422-440.e17	56.2	42

58	TRP Channels as Drug Targets to Relieve Itch. <i>Pharmaceuticals</i> , 2018 , 11,	5.2	41
57	Retinoids activate the irritant receptor TRPV1 and produce sensory hypersensitivity. <i>Journal of Clinical Investigation</i> , 2013 , 123, 3941-51	15.9	39
56	Scaffolding by A-kinase anchoring protein enhances functional coupling between adenylyl cyclase and TRPV1 channel. <i>Journal of Biological Chemistry</i> , 2013 , 288, 3929-37	5.4	36
55	TRPV1 activity and substance P release are required for corneal cold nociception. <i>Nature Communications</i> , 2019 , 10, 5678	17.4	32
54	Thermally activated TRPV3 channels. <i>Current Topics in Membranes</i> , 2014 , 74, 325-64	2.2	30
53	Tonic inhibition of TRPV3 by Mg ²⁺ in mouse epidermal keratinocytes. <i>Journal of Investigative Dermatology</i> , 2012 , 132, 2158-65	4.3	28
52	Zinc Inhibits TRPV1 to Alleviate Chemotherapy-Induced Neuropathic Pain. <i>Journal of Neuroscience</i> , 2018 , 38, 474-483	6.6	27
51	TRPV4 Channel Signaling in Macrophages Promotes Gastrointestinal Motility via Direct Effects on Smooth Muscle Cells. <i>Immunity</i> , 2018 , 49, 107-119.e4	32.3	26
50	Gating of human TRPV3 in a lipid bilayer. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 635-644	17.6	23
49	Polymodal TRPV1 and TRPV4 Sensors Colocalize but Do Not Functionally Interact in a Subpopulation of Mouse Retinal Ganglion Cells. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 353	6.1	23
48	Differential expression of canonical (classical) transient receptor potential channels in guinea pig enteric nervous system. <i>Journal of Comparative Neurology</i> , 2008 , 511, 847-62	3.4	19
47	Eact, a small molecule activator of TMEM16A, activates TRPV1 and elicits pain- and itch-related behaviours. <i>British Journal of Pharmacology</i> , 2016 , 173, 1208-18	8.6	19
46	Resident cardiac macrophages mediate adaptive myocardial remodeling. <i>Immunity</i> , 2021 , 54, 2072-2088.e73	3.7	19
45	Cell-based calcium assay for medium to high throughput screening of TRP channel functions using FlexStation 3. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	16
44	Identification and characterization of two ankyrin-B isoforms in mammalian heart. <i>Cardiovascular Research</i> , 2015 , 107, 466-77	9.9	15
43	Parathyroid Hormone-Related Peptide Elicits Peripheral TRPV1-dependent Mechanical Hypersensitivity. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 38	6.1	15
42	Activation of TRPV4 Regulates Respiration through Indirect Activation of Bronchopulmonary Sensory Neurons. <i>Frontiers in Physiology</i> , 2016 , 7, 65	4.6	15
41	Synaptic activation of putative sensory neurons by hexamethonium-sensitive nerve pathways in mouse colon. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 314, G53-G64	5.1	14

40	Targeting Pain-evoking Transient Receptor Potential Channels for the Treatment of Pain. <i>Current Neuropharmacology</i> , 2013 , 11, 652-63	7.6	14
39	Kv Channel S1-S2 Linker Working as a Binding Site of Human β -Defensin 2 for Channel Activation Modulation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 15487-15495	5.4	13
38	Potentiation of high voltage-activated calcium channels by 4-aminopyridine depends on subunit composition. <i>Molecular Pharmacology</i> , 2014 , 86, 760-72	4.3	13
37	The Pore Loop Domain of TRPV1 Is Required for Its Activation by the Volatile Anesthetics Chloroform and Isoflurane. <i>Molecular Pharmacology</i> , 2015 , 88, 131-8	4.3	12
36	The antimicrobial peptide human beta-defensin 2 promotes itch through Toll-like receptor 4 signaling in mice. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 140, 885-888.e6	11.5	10
35	Diversity of neurogenic smooth muscle electrical rhythmicity in mouse proximal colon. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, G244-G253	5.1	10
34	Cryo-EM structure of a proton-activated chloride channel TMEM206. <i>Science Advances</i> , 2021 , 7,	14.3	9
33	Enteric Nervous System Structure and Neurochemistry Related to Function and Neuropathology 2018 , 337-360		8
32	A novel player in the field: Merkel disc in touch, itch and pain. <i>Experimental Dermatology</i> , 2019 , 28, 1412-1415	4	7
31	Versatile cell ablation tools and their applications to study loss of cell functions. <i>Cellular and Molecular Life Sciences</i> , 2019 , 76, 4725-4743	10.3	7
30	Lourein B, an essential component of Sanguis Draxonis, inhibits Kv1.3 channel and suppresses cytokine release from Jurkat T cells. <i>Cell and Bioscience</i> , 2014 , 4, 78	9.8	7
29	Notch signaling in bone marrow-derived FSP-1 ⁺ cells initiates neointima formation in arteriovenous fistulas. <i>Kidney International</i> , 2019 , 95, 1347-1358	9.9	6
28	CaMKII is essential for the function of the enteric nervous system. <i>PLoS ONE</i> , 2012 , 7, e44426	3.7	6
27	IL-33 signaling in sensory neurons promotes dry skin itch. <i>Journal of Allergy and Clinical Immunology</i> , 2021 ,	11.5	6
26	Transient stimulation of TRPV4-expressing keratinocytes promotes hair follicle regeneration in mice. <i>British Journal of Pharmacology</i> , 2020 , 177, 4181-4192	8.6	5
25	LE135, a retinoid acid receptor antagonist, produces pain through direct activation of TRP channels. <i>British Journal of Pharmacology</i> , 2014 , 171, 1510-20	8.6	5
24	Kir6.1- and SUR2-dependent KATP over-activity disrupts intestinal motility in murine models of Cantu Syndrome. <i>JCI Insight</i> , 2020 ,	9.9	5
23	Inhalation anaesthetic isoflurane inhibits the muscarinic cation current and carbachol-induced gastrointestinal smooth muscle contractions. <i>European Journal of Pharmacology</i> , 2018 , 820, 39-44	5.3	5

22	Optogenetic control of the enteric nervous system and gastrointestinal transit. <i>Expert Review of Gastroenterology and Hepatology</i> , 2019 , 13, 281-284	4.2	5
21	Mechanosensitive TRPV4 is required for crystal-induced inflammation. <i>Annals of the Rheumatic Diseases</i> , 2021 , 80, 1604-1614	2.4	4
20	Goblet cell LRRC26 regulates BK channel activation and protects against colitis in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
19	Long range synchronization within the enteric nervous system underlies propulsion along the large intestine in mice. <i>Communications Biology</i> , 2021 , 4, 955	6.7	4
18	Anti-inflammatory dopamine- and serotonin-based endocannabinoid epoxides reciprocally regulate cannabinoid receptors and the TRPV1 channel. <i>Nature Communications</i> , 2021 , 12, 926	17.4	3
17	Optogenetic Induction of Propagating Colonic Motor Complexes and Silencing of Colonic Motility Using Cre-Inducible Activation and Inactivation of Calretinin-Expressing Neurons. <i>Gastroenterology</i> , 2017 , 152, S102	13.3	2
16	THE ROLE OF TRPV4 CATION CHANNELS IN THE REGULATION OF PHENYLEPHRINE-INDUCED CONTRACTION OF RAT PULMONARY ARTER. <i>Fiziologicheskii Zhurnal</i> , 2016 , 62, 79-86		2
15	Neuronal IL-4R α and JAK1 signaling critically mediate atopic dermatitis-associated. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 141, AB92	11.5	2
14	TMEM184b is necessary for IL-31 induced itch		1
13	Effects of optogenetic activation of the enteric nervous system on gastrointestinal motility in mouse small intestine. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2020 , 229, 102733	2.4	1
12	Synthesis and Characterization of a Specific Iodine-125-Labeled TRPC5 Radioligand. <i>ChemMedChem</i> , 2020 , 15, 1854-1860	3.7	1
11	Transmembrane protein TMEM184B is necessary for interleukin-31-induced itch. <i>Pain</i> , 2021 ,	8	1
10	A Critical Role for TRP Channels in the Skin 2017 , 95-111		0
9	Loureirin B Exerts its Immunosuppressive Effects by Inhibiting STIM1/Orai1 and K1.3 Channels. <i>Frontiers in Pharmacology</i> , 2021 , 12, 685092	5.6	0
8	Mechanisms of Broad-Band UVB Irradiation-Induced Itch in Mice. <i>Journal of Investigative Dermatology</i> , 2021 , 141, 2499-2508.e3	4.3	0
7	Modification of Neurogenic Colonic Motor Behaviours by Chemogenetic Ablation of Calretinin Neurons.. <i>Frontiers in Cellular Neuroscience</i> , 2022 , 16, 799717	6.1	0
6	TRPV4 Agonist GSK1016790A Regulates Respiration through Indirect Activation of Bronchopulmonary Sensory Neurons. <i>FASEB Journal</i> , 2015 , 29, 860.2	0.9	
5	Sustained Elevation of Adenosine-ADORA2B Signaling Promotes Chronic Pain through Neuro-Immune Interaction in Sickle Cell Disease. <i>Blood</i> , 2015 , 126, 974-974	2.2	

- 4 Activation of TRPA1 channels by Fenamate NSAIDs. *FASEB Journal*, **2010**, 24, 583.3 0.9
- 3 Acid induces TRPV4-mediated calcium influx in mouse esophageal keratinocytes. *FASEB Journal*, **2012**, 26, 695.7 0.9
- 2 Synthesis and in vitro evaluation of new TRPV4 ligands and biodistribution study of an C-labeled radiotracer in rodents. *Bioorganic and Medicinal Chemistry Letters*, **2020**, 30, 127573 2.9
- 1 Cutaneous mechanisms of itch signaling. *Itch (Philadelphia, Pa)*, **2021**, 6, e50-e50 1.8