

Hongzhen Hu

List of Publications by Year in descending order

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84
papers

4,009
citations

172457

29
h-index

128289

60
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92
all docs

92
docs citations

92
times ranked

5169
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensory Neurons Co-opt Classical Immune Signaling Pathways to Mediate Chronic Itch. <i>Cell</i> , 2017, 171, 217-228.e13.	28.9	692
2	Enteric nervous system: sensory transduction, neural circuits and gastrointestinal motility. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2020, 17, 338-351.	17.8	292
3	Membrane potential modulates plasma membrane phospholipid dynamics and K-Ras signaling. <i>Science</i> , 2015, 349, 873-876.	12.6	243
4	Zinc activates damage-sensing TRPA1 ion channels. <i>Nature Chemical Biology</i> , 2009, 5, 183-190.	8.0	204
5	<i>Caenorhabditis elegans</i> TRPA-1 functions in mechanosensation. <i>Nature Neuroscience</i> , 2007, 10, 568-577.	14.8	202
6	Pore region of TRPV3 ion channel is specifically required for heat activation. <i>Nature Neuroscience</i> , 2008, 11, 1007-1013.	14.8	161
7	Piezo2 channel—Merkel cell signaling modulates the conversion of touch to itch. <i>Science</i> , 2018, 360, 530-533.	12.6	144
8	A basophil-neuronal axis promotes itch. <i>Cell</i> , 2021, 184, 422-440.e17.	28.9	130
9	Zika Virus Targets Glioblastoma Stem Cells through a SOX2-Integrin β 5 Axis. <i>Cell Stem Cell</i> , 2020, 26, 187-204.e10.	11.1	126
10	Activation of TRPA1 channels by fenamate nonsteroidal anti-inflammatory drugs. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 459, 579-592.	2.8	110
11	Sensory TRP channels contribute differentially to skin inflammation and persistent itch. <i>Nature Communications</i> , 2017, 8, 980.	12.8	106
12	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, 1626-1631.	7.1	103
13	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.	2.9	85
14	Resident cardiac macrophages mediate adaptive myocardial remodeling. <i>Immunity</i> , 2021, 54, 2072-2088.e7.	14.3	76
15	Molecular and cellular mechanisms that initiate pain and itch. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 3201-3223.	5.4	74
16	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.	3.6	68
17	TRPV1 activity and substance P release are required for corneal cold nociception. <i>Nature Communications</i> , 2019, 10, 5678.	12.8	64
18	TRPV4 Channel Signaling in Macrophages Promotes Gastrointestinal Motility via Direct Effects on Smooth Muscle Cells. <i>Immunity</i> , 2018, 49, 107-119.e4.	14.3	63

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19	TRP Channels as Drug Targets to Relieve Itch. <i>Pharmaceuticals</i> , 2018, 11, 100.	3.8	62
20	Optogenetic Induction of Colonic Motility in Mice. <i>Gastroenterology</i> , 2018, 155, 514-528.e6.	1.3	62
21	Sustained Elevated Adenosine via ADORA2B Promotes Chronic Pain through Neuro-immune Interaction. <i>Cell Reports</i> , 2016, 16, 106-119.	6.4	61
22	Retinoids activate the irritant receptor TRPV1 and produce sensory hypersensitivity. <i>Journal of Clinical Investigation</i> , 2013, 123, 3941-3951.	8.2	57
23	Zinc Inhibits TRPV1 to Alleviate Chemotherapy-Induced Neuropathic Pain. <i>Journal of Neuroscience</i> , 2018, 38, 474-483.	3.6	51
24	Gating of human TRPV3 in a lipid bilayer. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 635-644.	8.2	46
25	Thermally Activated TRPV3 Channels. <i>Current Topics in Membranes</i> , 2014, 74, 325-364.	0.9	45
26	IL-33 signaling in sensory neurons promotes dry skin itch. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 1473-1480.e6.	2.9	44
27	Scaffolding by A-Kinase Anchoring Protein Enhances Functional Coupling between Adenylyl Cyclase and TRPV1 Channel. <i>Journal of Biological Chemistry</i> , 2013, 288, 3929-3937.	3.4	43
28	Tonic Inhibition of TRPV3 by Mg ²⁺ in Mouse Epidermal Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2012, 132, 2158-2165.	0.7	37
29	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.	3.7	37
30	Mechanosensitive TRPV4 is required for crystal-induced inflammation. <i>Annals of the Rheumatic Diseases</i> , 2021, 80, 1604-1614.	0.9	36
31	Cryo-EM structure of a proton-activated chloride channel TMEM206. <i>Science Advances</i> , 2021, 7, .	10.3	27
32	Eact, a small molecule activator of TMEM16A, activates TRPV1 and elicits pain- and itch-related behaviours. <i>British Journal of Pharmacology</i> , 2016, 173, 1208-1218.	5.4	26
33	Identification and characterization of two ankyrin-B isoforms in mammalian heart. <i>Cardiovascular Research</i> , 2015, 107, 466-477.	3.8	23
34	Differential expression of canonical (classical) transient receptor potential channels in guinea pig enteric nervous system. <i>Journal of Comparative Neurology</i> , 2008, 511, 847-862.	1.6	22
35	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.	3.4	20
36	Parathyroid Hormone-Related Peptide Elicits Peripheral TRPV1-dependent Mechanical Hypersensitivity. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 38.	3.7	20

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37	Cell-based Calcium Assay for Medium to High Throughput Screening of TRP Channel Functions using FlexStation 3. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	19
38	Targeting Pain-evoking Transient Receptor Potential Channels for the Treatment of Pain. <i>Current Neuropharmacology</i> , 2013, 11, 652-663.	2.9	17
39	Potential of High Voltage-Activated Calcium Channels by 4-Aminopyridine Depends on Subunit Composition. <i>Molecular Pharmacology</i> , 2014, 86, 760-772.	2.3	16
40	Activation of TRPV4 Regulates Respiration through Indirect Activation of Bronchopulmonary Sensory Neurons. <i>Frontiers in Physiology</i> , 2016, 7, 65.	2.8	16
41	Versatile cell ablation tools and their applications to study loss of cell functions. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 4725-4743.	5.4	16
42	Kir6.1- and SUR2-dependent KATP overactivity disrupts intestinal motility in murine models of CantÃ© syndrome. <i>JCI Insight</i> , 2020, 5, .	5.0	16
43	Kv Channel S1-S2 Linker Working as a Binding Site of Human Î²-Defensin 2 for Channel Activation Modulation. <i>Journal of Biological Chemistry</i> , 2015, 290, 15487-15495.	3.4	15
44	A novel player in the field: Merkel disc in touch, itch and pain. <i>Experimental Dermatology</i> , 2019, 28, 1412-1415.	2.9	15
45	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.	3.5	15
46	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, .	7.1	14
47	Anti-inflammatory dopamine- and serotonin-based endocannabinoid epoxides reciprocally regulate cannabinoid receptors and the TRPV1 channel. <i>Nature Communications</i> , 2021, 12, 926.	12.8	14
48	The Pore Loop Domain of TRPV1 Is Required for Its Activation by the Volatile Anesthetics Chloroform and Isoflurane. <i>Molecular Pharmacology</i> , 2015, 88, 131-138.	2.3	13
49	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.	2.9	13
50	Miswiring of Merkel cell and pruriceptive C fiber drives the itch-scratch cycle. <i>Science Translational Medicine</i> , 2022, 14, .	12.4	13
51	Loureirin 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.	4.8	11
52	Enteric Nervous System Structure and Neurochemistry Related to Function and Neuropathology. , 2018, , 337-360.		11
53	Diversity of neurogenic smooth muscle electrical rhythmicity in mouse proximal colon. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, G244-G253.	3.4	11
54	<sc>LE135</sc>, a retinoid acid receptor antagonist, produces pain through direct activation of <sc>TRP</sc> channels. <i>British Journal of Pharmacology</i> , 2014, 171, 1510-1520.	5.4	10

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55	Lourein B Exerts its Immunosuppressive Effects by Inhibiting STIM1/Orai1 and KV1.3 Channels. <i>Frontiers in Pharmacology</i> , 2021, 12, 685092.	3.5	9
56	Notch signaling in bone marrow-derived FSP-1 cells initiates neointima formation in arteriovenous fistulas. <i>Kidney International</i> , 2019, 95, 1347-1358.	5.2	8
57	Optogenetic control of the enteric nervous system and gastrointestinal transit. <i>Expert Review of Gastroenterology and Hepatology</i> , 2019, 13, 281-284.	3.0	7
58	Transmembrane protein TMEM184B is necessary for interleukin-31-induced itch. <i>Pain</i> , 2022, 163, e642-e653.	4.2	7
59	Long range synchronization within the enteric nervous system underlies propulsion along the large intestine in mice. <i>Communications Biology</i> , 2021, 4, 955.	4.4	7
60	CaMKII Is Essential for the Function of the Enteric Nervous System. <i>PLoS ONE</i> , 2012, 7, e44426.	2.5	7
61	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.	2.8	6
62	Transient stimulation of TRPV4-expressing keratinocytes promotes hair follicle regeneration in mice. <i>British Journal of Pharmacology</i> , 2020, 177, 4181-4192.	5.4	6
63	Modification of Neurogenic Colonic Motor Behaviours by Chemogenetic Ablation of Calretinin Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 799717.	3.7	6
64	THE ROLE OF TRPV4 CATION CHANNELS IN THE REGULATION OF PHENYLEPHRINE-INDUCED CONTRACTION OF RAT PULMONARY ARTERY. <i>Fiziologicheskii Zhurnal</i> , 2016, 62, 79-86.	0.2	4
65	Estrogen metabolites increase nociceptor hyperactivity in a mouse model of uterine pain. <i>JCI Insight</i> , 2022, 7, .	5.0	4
66	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.	1.3	2
67	Neuronal IL-4R α and JAK1 signaling critically mediate atopic dermatitis-associated. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, AB92.	2.9	2
68	Synthesis and Characterization of a Specific Iodine-125 Labeled TRPC5 Radioligand. <i>ChemMedChem</i> , 2020, 15, 1854-1860.	3.2	2
69	Mechanisms of Broad-Band UVB Irradiation-Induced Itch in Mice. <i>Journal of Investigative Dermatology</i> , 2021, 141, 2499-2508.e3.	0.7	2
70	A Basophil-Neuronal Axis Promotes Itch. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
71	Calcium Sensing Receptor in Rat Myenteric Plexus of Colon. <i>Gastroenterology</i> , 2011, 140, S-521.	1.3	0
72	Mo1693 Activation of Bone Marrow-Derived TRPV4-Expressing M2 Macrophages Promotes Intestinal Contraction. <i>Gastroenterology</i> , 2015, 148, S-687.	1.3	0

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73	Synthesis and in vitro evaluation of new TRPV4 ligands and biodistribution study of an ¹¹ C-labeled radiotracer in rodents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127573.	2.2	0
74	Structural Basis of TRPV3 Activation and Inactivation. <i>Biophysical Journal</i> , 2020, 118, 412a.	0.5	0
75	KATP Activity in Intestinal Smooth Muscle Regulates Motility. <i>Biophysical Journal</i> , 2020, 118, 589a.	0.5	0
76	Cutaneous mechanisms of itch signaling. <i>Itch (Philadelphia, Pa)</i> , 2021, 6, e50-e50.	0.2	0
77	Activation of TRPA1 channels by Fenamate NSAIDs. <i>FASEB Journal</i> , 2010, 24, 583.3.	0.5	0
78	Acid induces TRPV4-mediated calcium influx in mouse esophageal keratinocytes. <i>FASEB Journal</i> , 2012, 26, 695.7.	0.5	0
79	TRPV4 Agonist GSK1016790A Regulates Respiration through Indirect Activation of Bronchopulmonary Sensory Neurons. <i>FASEB Journal</i> , 2015, 29, 860.2.	0.5	0
80	Sustained Elevation of Adenosine-ADORA2B Signaling Promotes Chronic Pain through Neuro-Immune Interaction in Sickle Cell Disease. <i>Blood</i> , 2015, 126, 974-974.	1.4	0
81	TRPV3 (Transient Receptor Potential Channel Subfamily V Member 3). , 2016, , 1-6.		0
82	The Role of TRPV4 Cation Channels in Regulation of Phenylephrine-Induced Contraction of Rat Pulmonary Artery. <i>International Journal of Physiology and Pathophysiology</i> , 2017, 8, 121-130.	0.1	0
83	TRPV3 (Transient Receptor Potential Channel Subfamily V Member 3). , 2018, , 5749-5755.		0
84	NPR1 inhibitors: new drugs for itch treatment?. <i>Journal of Xiangya Medicine</i> , 0, 4, 39-39.	0.2	0