Makoto Tominaga

List of Publications by Year
in descending order

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162	24,682	22153 59	6996 154
papers	citations	h-index	g-index

172	172	172	15396
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The capsaicin receptor: a heat-activated ion channel in the pain pathway. Nature, 1997, 389, 816-824.	27.8	7,862
2	The Cloned Capsaicin Receptor Integrates Multiple Pain-Producing Stimuli. Neuron, 1998, 21, 531-543.	8.1	2,792
3	A capsaicin-receptor homologue with a high threshold for noxious heat. Nature, 1999, 398, 436-441.	27.8	1,414
4	Heat-Evoked Activation of the Ion Channel, TRPV4. Journal of Neuroscience, 2002, 22, 6408-6414.	3.6	869
5	TRPA1 induced in sensory neurons contributes to cold hyperalgesia after inflammation and nerve injury. Journal of Clinical Investigation, 2005, 115, 2393-2401.	8.2	542
6	Sensitization of TRPV1 by EP1 and IP Reveals Peripheral Nociceptive Mechanism of Prostaglandins. Molecular Pain, 2005, 1, 1744-8069-1-3.	2.1	460
7	Thermosensation and pain. Journal of Neurobiology, 2004, 61, 3-12.	3.6	440
8	Direct Phosphorylation of Capsaicin Receptor VR1 by Protein Kinase CÎµ and Identification of Two Target Serine Residues. Journal of Biological Chemistry, 2002, 277, 13375-13378.	3.4	411
9	TRPM2 activation by cyclic ADP-ribose at body temperature is involved in insulin secretion. EMBO Journal, 2006, 25, 1804-1815.	7.8	375
10	Î±-Klotho as a Regulator of Calcium Homeostasis. Science, 2007, 316, 1615-1618.	12.6	371
11	Sensitization of TRPA1 by PAR2 contributes to the sensation of inflammatory pain. Journal of Clinical Investigation, 2007, 117, 1979-1987.	8.2	363
12	Structure and function of TRPV1. Pflugers Archiv European Journal of Physiology, 2005, 451, 143-150.	2.8	353
13	Structural determinant of TRPV1 desensitization interacts with calmodulin. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8002-8006.	7.1	305
14	Bradykinin Lowers the Threshold Temperature for Heat Activation of Vanilloid Receptor 1. Journal of Neurophysiology, 2002, 88, 544-548.	1.8	298
15	Proteinase-Activated Receptor 2-Mediated Potentiation of Transient Receptor Potential Vanilloid Subfamily 1 Activity Reveals a Mechanism for Proteinase-Induced Inflammatory Pain. Journal of Neuroscience, 2004, 24, 4293-4299.	3.6	283
16	Effects of Body Temperature on Neural Activity in the Hippocampus: Regulation of Resting Membrane Potentials by Transient Receptor Potential Vanilloid 4. Journal of Neuroscience, 2007, 27, 1566-1575.	3.6	260
17	The TRPV4 Cation Channel Mediates Stretch-evoked Ca2+ Influx and ATP Release in Primary Urothelial Cell Cultures. Journal of Biological Chemistry, 2009, 284, 21257-21264.	3.4	254
18	Phospholipase C and protein kinase A mediate bradykinin sensitization of TRPA1: a molecular mechanism of inflammatory pain. Brain, 2008, 131, 1241-1251.	7.6	232

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19	Functional Role for Piezo1 in Stretch-evoked Ca2+ Influx and ATP Release in Urothelial Cell Cultures. Journal of Biological Chemistry, 2014, 289, 16565-16575.	3.4	231
20	TRPV3 in keratinocytes transmits temperature information to sensory neurons via ATP. Pflugers Archiv European Journal of Physiology, 2009, 458, 1093-1102.	2.8	218
21	Possible Involvement of P2Y₂Metabotropic Receptors in ATP-Induced Transient Receptor Potential Vanilloid Receptor 1-Mediated Thermal Hypersensitivity. Journal of Neuroscience, 2003, 23, 6058-6062.	3.6	217
22	Effects of Skin Surface Temperature on Epidermal Permeability Barrier Homeostasis. Journal of Investigative Dermatology, 2007, 127, 654-659.	0.7	165
23	The TRPV4 Channel Contributes to Intercellular Junction Formation in Keratinocytes. Journal of Biological Chemistry, 2010, 285, 18749-18758.	3.4	163
24	TRPV2 Enhances Axon Outgrowth through Its Activation by Membrane Stretch in Developing Sensory and Motor Neurons. Journal of Neuroscience, 2010, 30, 4601-4612.	3.6	163
25	Lack of TRPM2 Impaired Insulin Secretion and Glucose Metabolisms in Mice. Diabetes, 2011, 60, 119-126.	0.6	163
26	Increased sensitivity of desensitized TRPV1 by PMA occurs through PKCÎµ-mediated phosphorylation at S800. Pain, 2006, 123, 106-116.	4.2	143
27	Redox signal-mediated sensitization of transient receptor potential melastatin 2 (TRPM2) to temperature affects macrophage functions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6745-6750.	7.1	139
28	Cell surface flip-flop of phosphatidylserine is critical for PIEZO1-mediated myotube formation. Nature Communications, 2018, 9, 2049.	12.8	127
29	Pain-enhancing mechanism through interaction between TRPV1 and anoctamin 1 in sensory neurons. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5213-5218.	7.1	121
30	Activation of protein kinase C reverses capsaicin-induced calcium-dependent desensitization of TRPV1 ion channels. Cell Calcium, 2004, 35, 471-478.	2.4	119
31	Unusual Pungency from Extra-Virgin Olive Oil Is Attributable to Restricted Spatial Expression of the Receptor of Oleocanthal. Journal of Neuroscience, 2011, 31, 999-1009.	3.6	119
32	Intracellular alkalization causes pain sensation through activation of TRPA1 in mice. Journal of Clinical Investigation, 2008, 118, 4049-4057.	8.2	114
33	Nociception and TRP Channels. CNS and Neurological Disorders, 2004, 3, 479-485.	4.3	112
34	Evolutionary conservation and changes in insect TRP channels. BMC Evolutionary Biology, 2009, 9, 228.	3.2	110
35	DrosophilaPainless Is a Ca²⁺-Requiring Channel Activated by Noxious Heat. Journal of Neuroscience, 2008, 28, 9929-9938.	3.6	99
36	1,8-Cineole, a TRPM8 Agonist, is a Novel Natural Antagonist of Human TRPA1. Molecular Pain, 2012, 8, 1744-8069-8-86.	2.1	96

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37	Transient receptor potential vanilloid 4 (TRPV4)â€dependent calcium influx and ATP release in mouse oesophageal keratinocytes. Journal of Physiology, 2011, 589, 3471-3482.	2.9	95
38	Importance of transient receptor potential vanilloid 4 (TRPV4) in epidermal barrier function in human skin keratinocytes. Pflugers Archiv European Journal of Physiology, 2012, 463, 715-725.	2.8	95
39	A Novel Subtype of Astrocytes Expressing TRPV4 (Transient Receptor Potential Vanilloid 4) Regulates Neuronal Excitability via Release of Gliotransmitters. Journal of Biological Chemistry, 2014, 289, 14470-14480.	3.4	92
40	Modulation of water efflux through functional interaction between TRPV4 and TMEM16A/anoctamin 1. FASEB Journal, 2014, 28, 2238-2248.	0.5	90
41	Embryonic thermosensitive TRPA1 determines transgenerational diapause phenotype of the silkworm, Bombyx mori. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1249-55.	7.1	86
42	The molecular and cellular mechanisms of itch and the involvement ofÂTRP channels in the peripheral sensory nervous system and skin. Allergology International, 2017, 66, 22-30.	3.3	86
43	Lysophosphatidic acidâ€induced itch is mediated by signalling of LPA₅ receptor, phospholipase D and TRPA1/TRPV1. Journal of Physiology, 2017, 595, 2681-2698.	2.9	79
44	Analysis of Transient Receptor Potential Ankyrin 1 (TRPA1) in Frogs and Lizards Illuminates Both Nociceptive Heat and Chemical Sensitivities and Coexpression with TRP Vanilloid 1 (TRPV1) in Ancestral Vertebrates. Journal of Biological Chemistry, 2012, 287, 30743-30754.	3.4	77
45	Involvement of TRPV2 Activation in Intestinal Movement through Nitric Oxide Production in Mice. Journal of Neuroscience, 2010, 30, 16536-16544.	3.6	75
46	Nociceptors Boost the Resolution of Fungal Osteoinflammation via the TRP Channel-CGRP-Jdp2 Axis. Cell Reports, 2017, 19, 2730-2742.	6.4	75
47	The role of thermosensitive TRP (transient receptor potential) channels in insulin secretion [Review]. Endocrine Journal, 2011, 58, 1021-1028.	1.6	73
48	Heat and Noxious Chemical Sensor, Chicken TRPA1, as a Target of Bird Repellents and Identification of Its Structural Determinants by Multispecies Functional Comparison. Molecular Biology and Evolution, 2014, 31, 708-722.	8.9	73
49	Different expression patterns of TRP genes in murine B and T lymphocytes. Biochemical and Biophysical Research Communications, 2006, 350, 762-767.	2.1	72
50	Lack of <scp>TRPV</scp> 2 impairs thermogenesis in mouse brown adipose tissue. EMBO Reports, 2016, 17, 383-399.	4.5	71
51	The thermosensitive TRPV3 channel contributes to rapid wound healing in oral epithelia. FASEB Journal, 2015, 29, 182-192.	0.5	70
52	Honey Bee Thermal/Chemical Sensor, AmHsTRPA, Reveals Neofunctionalization and Loss of Transient Receptor Potential Channel Genes. Journal of Neuroscience, 2010, 30, 12219-12229.	3.6	69
53	Involvement of thermosensitive TRP channels in energy metabolism. Journal of Physiological Sciences, 2017, 67, 549-560.	2.1	69
54	Evolution of Vertebrate Transient Receptor Potential Vanilloid 3 Channels: Opposite Temperature Sensitivity between Mammals and Western Clawed Frogs. PLoS Genetics, 2011, 7, e1002041.	3.5	67

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55	TRPV4 activation at the physiological temperature is a critical determinant of neuronal excitability and behavior. Pflugers Archiv European Journal of Physiology, 2015, 467, 2495-2507.	2.8	66
56	TRPV4 associates environmental temperature and sex determination in the American alligator. Scientific Reports, 2016, 5, 18581.	3.3	66
57	Functional diversity and evolutionary dynamics of thermoTRP channels. Cell Calcium, 2015, 57, 214-221.	2.4	65
58	10â€oxoâ€12(Z)â€octadecenoic acid, a linoleic acid metabolite produced by gut lactic acid bacteria, enhances energy metabolism by activation of TRPV1. FASEB Journal, 2017, 31, 5036-5048.	0.5	65
59	Identification of a splice variant of mouse TRPA1 that regulates TRPA1 activity. Nature Communications, 2013, 4, 2399.	12.8	64
60	DIP (mDia interacting protein) is a key molecule regulating Rho and Rac in a Src-dependent manner. EMBO Journal, 2004, 23, 760-771.	7.8	62
61	Ambient Temperature Affects the Temperature Threshold for TRPM8 Activation through Interaction of Phosphatidylinositol 4,5-Bisphosphate. Journal of Neuroscience, 2013, 33, 6154-6159.	3.6	62
62	Polysulfide Evokes Acute Pain through the Activation of Nociceptive TRPA1 in Mouse Sensory Neurons. Molecular Pain, 2015, 11, s12990-015-0023.	2.1	61
63	The TRPV4 cation channel. Communicative and Integrative Biology, 2010, 3, 619-621.	1.4	56
64	Activation of transient receptor potential A1 by a nonâ€pungent capsaicinâ€like compound, capsiate. British Journal of Pharmacology, 2012, 165, 1476-1486.	5.4	56
65	TRPV1 is crucial for proinflammatory STAT3 signaling and thermoregulation-associated pathways in the brain during inflammation. Scientific Reports, 2016, 6, 26088.	3.3	56
66	Involvement of cAMP/EPAC/TRPM2 Activation in Glucose- and Incretin-Induced Insulin Secretion. Diabetes, 2014, 63, 3394-3403.	0.6	55
67	Astrocytic TRPV1 ion channels detect bloodâ€borne signals in the sensory circumventricular organs of adult mouse brains. Glia, 2013, 61, 957-971.	4.9	54
68	Inhibitory effects of monoterpenes on human TRPA1 and the structural basis of their activity. Journal of Physiological Sciences, 2014, 64, 47-57.	2.1	54
69	Reciprocal effects of capsaicin and menthol on thermosensation through regulated activities of TRPV1 and TRPM8. Journal of Physiological Sciences, 2016, 66, 143-155.	2.1	51
70	The structure of lipid nanodisc-reconstituted TRPV3 reveals the gating mechanism. Nature Structural and Molecular Biology, 2020, 27, 645-652.	8.2	51
71	Miogadial and miogatrial with Î±,Î²-unsaturated 1,4-dialdehyde moietiesâ€”Novel and potent TRPA1 agonists. Life Sciences, 2009, 85, 60-69.	4.3	49
72	Lipophilicity of capsaicinoids and capsinoids influences the multiple activation process of rat TRPV1. Life Sciences, 2006, 79, 2303-2310.	4.3	48

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73	Intrathecal AAV Serotype 9-mediated Delivery of shRNA Against TRPV1 Attenuates Thermal Hyperalgesia in a Mouse Model of Peripheral Nerve Injury. Molecular Therapy, 2014, 22, 409-419.	8.2	48
74	Structural basis of TRPA1 inhibition by HC-030031 utilizing species-specific differences. Scientific Reports, 2016, 6, 37460.	3.3	45
75	The TRPM2 channel: A thermo-sensitive metabolic sensor. Channels, 2017, 11, 426-433.	2.8	45
76	Oxidation of methionine residues activates the high-threshold heat-sensitive ion channel TRPV2. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24359-24365.	7.1	44
77	Glycine release from astrocytes via functional reversal of GlyT1. Journal of Neurochemistry, 2017, 140, 395-403.	3.9	43
78	The ATP Transporter VNUT Mediates Induction of Dectin-1-Triggered Candida Nociception. IScience, 2018, 6, 306-318.	4.1	43
79	Evolutionary tuning of TRPA1 and TRPV1 thermal and chemical sensitivity in vertebrates. Temperature, 2017, 4, 141-152.	3.0	42
80	Involvement of TRPA1 Activation in Acute Pain Induced by Cadmium in Mice. Molecular Pain, 2013, 9, 1744-8069-9-7.	2.1	41
81	Molecular Cloning and Functional Characterization of Xenopus tropicalis Frog Transient Receptor Potential Vanilloid 1 Reveal Its Functional Evolution for Heat, Acid, and Capsaicin Sensitivities in Terrestrial Vertebrates. Journal of Biological Chemistry, 2012, 287, 2388-2397.	3.4	40
82	The role of TRPM2 in pancreatic Î²-cells and the development of diabetes. Cell Calcium, 2014, 56, 332-339.	2.4	40
83	TRP channels in thermosensation. Current Opinion in Neurobiology, 2022, 75, 102591.	4.2	40
84	Infantile Pain Episodes Associated with Novel Nav1.9 Mutations in Familial Episodic Pain Syndrome in Japanese Families. PLoS ONE, 2016, 11, e0154827.	2.5	38
85	Emerging Perspectives on Pain Management by Modulation of TRP Channels and ANO1. International Journal of Molecular Sciences, 2019, 20, 3411.	4.1	38
86	Primary alcohols activate human TRPA1 channel in a carbon chain length-dependent manner. Pflugers Archiv European Journal of Physiology, 2012, 463, 549-559.	2.8	37
87	Potential role of transient receptor potential (TRP) channels in bladder cancer cells. Journal of Physiological Sciences, 2014, 64, 305-314.	2.1	37
88	Evolution of Heat Sensors Drove Shifts in Thermosensation between Xenopus Species Adapted to Different Thermal Niches. Journal of Biological Chemistry, 2016, 291, 11446-11459.	3.4	37
89	Activation of TRPV2 negatively regulates the differentiation of mouse brown adipocytes. Pflugers Archiv European Journal of Physiology, 2016, 468, 1527-1540.	2.8	37
90	Cyclic ADP-Ribose and Heat Regulate Oxytocin Release via CD38 and TRPM2 in the Hypothalamus during Social or Psychological Stress in Mice. Frontiers in Neuroscience, 2016, 10, 304.	2.8	33

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91	Molecular Basis Determining Inhibition/Activation of Nociceptive Receptor TRPA1 Protein. Journal of Biological Chemistry, 2014, 289, 31927-31939.	3.4	32
92	Stimulationâ€dependent gating of TRPM3 channel in planar lipid bilayers. FASEB Journal, 2016, 30, 1306-1316.	0.5	32
93	Identification of Molecular Determinants for a Potent Mammalian TRPA1 Antagonist by Utilizing Species Differences. Journal of Molecular Neuroscience, 2013, 51, 754-762.	2.3	31
94	TRPM2 contributes to antigen-stimulated Ca2+ influx in mucosal mast cells. Pflugers Archiv European Journal of Physiology, 2013, 465, 1023-1030.	2.8	31
95	TRPM2 modulates insulin secretion in pancreatic Î²-cells. Islets, 2011, 3, 209-211.	1.8	30
96	Hippocampal neuronal maturation triggers post-synaptic clustering of brain temperature-sensor TRPV4. Biochemical and Biophysical Research Communications, 2015, 458, 168-173.	2.1	30
97	TRPV4 heats up ANO1â€dependent exocrine gland fluid secretion. FASEB Journal, 2018, 32, 1841-1854.	0.5	30
98	Role of Thermo-Sensitive Transient Receptor Potential Channels in Brown Adipose Tissue. Biological and Pharmaceutical Bulletin, 2018, 41, 1135-1144.	1.4	30
99	A unique mode of keratinocyte death requires intracellular acidification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
100	Metabolic adaptation of mice in a cool environment. Pflugers Archiv European Journal of Physiology, 2010, 459, 765-774.	2.8	26
101	Role of transient receptor potential vanilloid 4 activation in indomethacin-induced intestinal damage. American Journal of Physiology - Renal Physiology, 2014, 307, G33-G40.	3.4	26
102	Propofol-induced pain sensation involves multiple mechanisms in sensory neurons. Pflugers Archiv European Journal of Physiology, 2015, 467, 2011-2020.	2.8	26
103	Î²-Eudesmol, an oxygenized sesquiterpene, stimulates appetite via TRPA1 and the autonomic nervous system. Scientific Reports, 2017, 7, 15785.	3.3	26
104	Heat and AITC activate green anole TRPA1 in a membrane-delimited manner. Pflugers Archiv European Journal of Physiology, 2014, 466, 1873-1884.	2.8	25
105	Transient receptor potential vanilloid 4-dependent calcium influx and ATP release in mouse and rat gastric epithelia. World Journal of Gastroenterology, 2016, 22, 5512.	3.3	25
106	Activation and Inhibition of Thermosensitive TRP Channels by Voacangine, an Alkaloid Present in Voacanga africana, an African Tree. Journal of Natural Products, 2014, 77, 285-297.	3.0	24
107	Thermosensitive TRPV4 channels mediate temperature-dependent microglia movement. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
108	Identification of Significant Amino Acids in Multiple Transmembrane Domains of Human Transient Receptor Potential Ankyrin 1 (TRPA1) for Activation by Eudesmol, an Oxygenized Sesquiterpene in Hop Essential Oil. Journal of Biological Chemistry, 2015, 290, 3161-3171.	3.4	23

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109	Structural basis for promiscuous action of monoterpenes on TRP channels. Communications Biology, 2021, 4, 293.	4.4	23
110	4-isopropylcyclohexanol has potential analgesic effects through the inhibition of anoctamin 1, TRPV1 and TRPA1 channel activities. Scientific Reports, 2017, 7, 43132.	3.3	21
111	TRPV2 regulates BAT thermogenesis and differentiation. Channels, 2017, 11, 94-96.	2.8	21
112	Transient receptor potential vanilloid 4 (TRPV4) channel as a target of crotamiton and its bimodal effects. Pflugers Archiv European Journal of Physiology, 2017, 469, 1313-1323.	2.8	20
113	Isothiocyanates from Wasabia japonica Activate Transient Receptor Potential Ankyrin 1 Channel. Chemical Senses, 2012, 37, 809-818.	2.0	19
114	Temperature elevation in epileptogenic foci exacerbates epileptic discharge through TRPV4 activation. Laboratory Investigation, 2020, 100, 274-284.	3.7	19
115	Redox Signal-mediated Enhancement of the Temperature Sensitivity of Transient Receptor Potential Melastatin 2 (TRPM2) Elevates Glucose-induced Insulin Secretion from Pancreatic Islets. Journal of Biological Chemistry, 2015, 290, 12435-12442.	3.4	18
116	Hypotonicity-induced cell swelling activates TRPA1. Journal of Physiological Sciences, 2018, 68, 431-440.	2.1	17
117	The Role of TRP Channels in Thermosensation. Frontiers in Neuroscience, 2006, , 271-286.	0.0	17
118	Characterization of TRPA channels in the starfish Patiria pectinifera: involvement of thermally activated TRPA1 in thermotaxis in marine planktonic larvae. Scientific Reports, 2017, 7, 2173.	3.3	15
119	Comparisons of behavioural and TRPA1 heat sensitivities in three sympatric Cuban Anolis lizards. Molecular Ecology, 2018, 27, 2234-2242.	3.9	14
120	Diverse sensitivities of TRPA1 from different mosquito species to thermal and chemical stimuli. Scientific Reports, 2019, 9, 20200.	3.3	14
121	Trpm7 Protein Contributes to Intercellular Junction Formation in Mouse Urothelium. Journal of Biological Chemistry, 2015, 290, 29882-29892.	3.4	12
122	TRPA1 Channels in Drosophila and Honey Bee Ectoparasitic Mites Share Heat Sensitivity and Temperature-Related Physiological Functions. Frontiers in Physiology, 2016, 7, 447.	2.8	12
123	Elucidating the functional evolution of heat sensors among Xenopus species adapted to different thermal niches by ancestral sequence reconstruction. Molecular Ecology, 2019, 28, 3561-3571.	3.9	12
124	Fine-Tuning of Piezo1 Expression and Activity Ensures Efficient Myoblast Fusion during Skeletal Myogenesis. Cells, 2022, 11, 393.	4.1	12
125	Transient Receptor Potential Vanilloid 1 â€" a Polymodal Nociceptive Receptor â€" Plays a Crucial Role in Formaldehyde-Induced Skin Inflammation in Mice. Journal of Pharmacological Sciences, 2012, 118, 266-274.	2.5	11
126	Protease-Activated Receptor-2 Up-Regulates Transient Receptor Potential Vanilloid 4 Function in Mouse Esophageal Keratinocyte. Digestive Diseases and Sciences, 2015, 60, 3570-3578.	2.3	11

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127	Requirement of extracellular Ca²⁺ binding to specific amino acids for heatâ€evoked activation of TRPA1. Journal of Physiology, 2017, 595, 2451-2463.	2.9	11
128	FK506 (tacrolimus) causes pain sensation through the activation of transient receptor potential ankyrin 1 (TRPA1) channels. Journal of Physiological Sciences, 2019, 69, 305-316.	2.1	11
129	Molecular Mechanisms of Trigeminal Nociception and Sensation of Pungency. Chemical Senses, 2005, 30, i191-i192.	2.0	10
130	Increased TRPV4 expression in non-myelinating Schwann cells is associated with demyelination after sciatic nerve injury. Communications Biology, 2020, 3, 716.	4.4	10
131	Expression of the TRPM6 in mouse placental trophoblasts; potential role in maternalâ€“fetal calcium transport. Journal of Physiological Sciences, 2017, 67, 151-162.	2.1	9
132	HsTRPA of the Red Imported Fire Ant,Solenopsis invicta, Functions as a Nocisensor and Uncovers the Evolutionary Plasticity of HsTRPA Channels. ENeuro, 2018, 5, ENEURO.0327-17.2018.	1.9	9
133	Involvement of TRPV1-ANO1 Interactions in Pain-Enhancing Mechanisms. Advances in Experimental Medicine and Biology, 2018, 1099, 29-36.	1.6	8
134	Identification and classification of a new TRPM3 variant (Î³ subtype). Journal of Physiological Sciences, 2019, 69, 623-634.	2.1	8
135	Transient Receptor Potential Vanilloid 4 Regulation of Adenosine Triphosphate Release by the Adenosine Triphosphate Transporter Vesicular Nucleotide Transporter, a Novel Therapeutic Target for Gastrointestinal Baroreception and Chronic Inflammation. Digestion, 2020, 101, 6-11.	2.3	8
136	5,6â€dihydroxyâ€8Z,11Z,14Z,17Zâ€eicosatetraenoic acid accelerates the healing of colitis by inhibiting transient receptor potential vanilloid 4â€mediated signaling. FASEB Journal, 2021, 35, e21238.	0.5	8
137	Comparisons in temperature and photoperiodic-dependent diapause induction between domestic and wild mulberry silkworms. Scientific Reports, 2021, 11, 8052.	3.3	8
138	The Mechanism of Pertussis Cough Revealed by the Mouse-Coughing Model. MBio, 2022, 13, e0319721.	4.1	8
139	Involvement of TRPM2 and TRPM8 in temperature-dependent masking behavior. Scientific Reports, 2019, 9, 3706.	3.3	7
140	Thermal gradient ring reveals different temperature-dependent behaviors in mice lacking thermosensitive TRP channels. Journal of Physiological Sciences, 2022, 72, .	2.1	7
141	Cheek Injection Model for Simultaneous Measurement of Pain and Itch-related Behaviors. Journal of Visualized Experiments, 2019, , .	0.3	6
142	Inhibition of transient receptor potential vanilloid 1 and transient receptor potential ankyrin 1 by mosquito and mouse saliva. Pain, 2022, 163, 299-307.	4.2	6
143	Interaction between TRP and Ca2+-activated chloride channels. Channels, 2014, 8, 178-179.	2.8	5
144	Involvement of nociceptive transient receptor potential channels in repellent action of pulegone. Biochemical Pharmacology, 2018, 151, 89-95.	4.4	5

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145	Redox-Sensitive TRP Channels: TRPA1 and TRPM2. , 0, , .		4
146	Identification of molecular targets for toxic action by persulfate, an industrial sulfur compound. NeuroToxicology, 2019, 72, 29-37.	3.0	4
147	Physiological and Pathological Significance of Esophageal TRP Channels: Special Focus on TRPV4 in Esophageal Epithelial Cells. International Journal of Molecular Sciences, 2022, 23, 4550.	4.1	4
148	Single amino acids set apparent temperature thresholds for heat-evoked activation of mosquito transient receptor potential channel TRPA1. Journal of Biological Chemistry, 2022, 298, 102271.	3.4	4
149	TRPM8 channel is involved in the ventilatory response to CO2 mediating hypercapnic Ca2+ responses. Respiratory Physiology and Neurobiology, 2019, 263, 20-25.	1.6	3
150	Thermal gradient ring reveals thermosensory changes in diabetic peripheral neuropathy in mice. Scientific Reports, 2022, 12, .	3.3	3
151	Chapter 6 Gating, Sensitization, and Desensitization of TRPV1. Current Topics in Membranes, 2006, , 181-197.	0.9	2
152	Dependence of heat-evoked TRPA1 activation on extracellular Ca2+. Channels, 2017, 11, 271-272.	2.8	2
153	The Capsaicin Receptor. A Heat- and Proton-activated Ion Channel.. Seibutsu Butsuri, 1999, 39, 159-164.	0.1	1
154	Thermal Sensation (Cold and Heat) through Thermosensitive TRP Channel Activation. , 2008, , 127-131.		1
155	Patch-Clamp Biosensor Method. Springer Protocols, 2012, , 333-342.	0.3	1
156	Physiological significances of TRPâ€“ANO1 interaction. Pain Research, 2018, 33, 1-9.	0.1	1
157	Functional Changes and Their Structural Basis for Thermal Sensor TRP Channels Related to Evolutionary Adaptation. Seibutsu Butsuri, 2019, 59, 005-008.	0.1	1
158	Thermo-Sensitive Barrier : The Importance of Transient Receptor Potential Vanilloid 4 (TRPV4) in Epidermal Barrier Function. Journal of Society of Cosmetic Chemists of Japan, 2013, 47, 108-118.	0.1	1
159	é…¸å‘³å—å®¹ã®ãƒ¡ã‚«ãƒ‹ã‚ºãƒ ã‚ªãƒ•å¿œç”ã‚’å¼•ãå‡ºã™ç”Ÿç‰©å¦çš„æ„ç¾©. Kagaku To Seibutsu, 2010, 48, 419-423.	0.0	0
160	Identification of the molecular target of crotamiton, an antiâ€“itch agent. Pain Research, 2018, 33, 47-57.	0.1	0
161	Involvement of pore helix in voltage-dependent inactivation of TRPM5 channel. Heliyon, 2021, 7, e06102.	3.2	0
162	Temperature-Evoked Channel Activation: Simultaneous Detection of Ionic Currents and Temperature. Springer Protocols, 2012, , 343-351.	0.3	0