Thomas Voets

List of Publications by Year
in descending order

264 papers	24,387 citations	5876 81 h-index	7718 150 g-index
278 all docs	278 docs citations	278 times ranked	16202 citing authors

#	Article	IF	Citations
1	Transient Receptor Potential Cation Channels in Disease. Physiological Reviews, 2007, 87, 165-217.	13.1	1,260
2	The principle of temperature-dependent gating in cold- and heat-sensitive TRP channels. Nature, 2004, 430, 748-754.	13.7	922
3	Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels. Nature, 2003, 424, 434-438.	13.7	895
4	Cell swelling, heat, and chemical agonists use distinct pathways for the activation of the cation channel TRPV4. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 396-401.	3.3	561
5	TRPM6 Forms the Mg2+ Influx Channel Involved in Intestinal and Renal Mg2+ Absorption. Journal of Biological Chemistry, 2004, 279, 19-25.	1.6	552
6	PERMEATION AND SELECTIVITY OF TRP CHANNELS. Annual Review of Physiology, 2006, 68, 685-717.	5.6	505
7	TRPA1 acts as a cold sensor in vitro and in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1273-1278.	3.3	503
8	TRPM3 Is a Nociceptor Channel Involved in the Detection of Noxious Heat. Neuron, 2011, 70, 482-494.	3.8	454
9	Bimodal Action of Menthol on the Transient Receptor Potential Channel TRPA1. Journal of Neuroscience, 2007, 27, 9874-9884.	1.7	438
10	Heat activation of TRPM5 underlies thermal sensitivity of sweet taste. Nature, 2005, 438, 1022-1025.	13.7	408
11	TRPV4 calcium entry channel: a paradigm for gating diversity. American Journal of Physiology - Cell Physiology, 2004, 286, C195-C205.	2.1	401
12	TRPA1 channels mediate acute neurogenic inflammation and pain produced by bacterial endotoxins. Nature Communications, 2014, 5, 3125.	5.8	361
13	Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19084-19089.	3.3	351
14	Modulation of the Ca 2 Permeable Cation Channel TRPV4 by Cytochrome P450 Epoxygenases in Vascular Endothelium. Circulation Research, 2005, 97, 908-915.	2.0	334
15	Properties of volume-regulated anion channels in mammalian cells. Progress in Biophysics and Molecular Biology, 1997, 68, 69-119.	1.4	331
16	Munc18-1 Promotes Large Dense-Core Vesicle Docking. Neuron, 2001, 31, 581-592.	3.8	329
17	A TRP channel trio mediates acute noxious heat sensing. Nature, 2018, 555, 662-666.	13.7	329
18	Sensing with TRP channels. Nature Chemical Biology, 2005, 1, 85-92.	3.9	323

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19	Gain-of-function mutations in TRPV4 cause autosomal dominant brachyolmia. Nature Genetics, 2008, 40, 999-1003.	9.4	320
20	Calcium Dependence of Exocytosis and Endocytosis at the Cochlear Inner Hair Cell Afferent Synapse. Neuron, 2001, 29, 681-690.	3.8	310
21	Peripheral thermosensation in mammals. Nature Reviews Neuroscience, 2014, 15, 573-589.	4.9	304
22	Voltage Dependence of the Ca2+-activated Cation Channel TRPM4. Journal of Biological Chemistry, 2003, 278, 30813-30820.	1.6	302
23	Homo- and heterotetrameric architecture of the epithelial Ca2+ channels TRPV5 and TRPV6. EMBO Journal, 2003, 22, 776-785.	3.5	292
24	Deletion of the transient receptor potential cation channel TRPV4 impairs murine bladder voiding. Journal of Clinical Investigation, 2007, 117, 3453-3462.	3.9	283
25	Molecular Determinants of Permeation through the Cation Channel TRPV4. Journal of Biological Chemistry, 2002, 277, 33704-33710.	1.6	270
26	The Ca2+-activated cation channel TRPM4 is regulated by phosphatidylinositol 4,5-biphosphate. EMBO Journal, 2006, 25, 467-478.	3.5	268
27	TRPs in Our Senses. Current Biology, 2008, 18, R880-R889.	1.8	261
28	TRPV4-Mediated Calcium Influx Regulates Terminal Differentiation of Osteoclasts. Cell Metabolism, 2008, 8, 257-265.	7.2	260
29	Regulation of the Ca2+ Sensitivity of the Nonselective Cation Channel TRPM4. Journal of Biological Chemistry, 2005, 280, 6423-6433.	1.6	252
30	The puzzle of TRPV4 channelopathies. EMBO Reports, 2013, 14, 152-163.	2.0	252
31	TRPM8 voltage sensor mutants reveal a mechanism for integrating thermal and chemical stimuli. Nature Chemical Biology, 2007, 3, 174-182.	3.9	249
32	Gating of TRP channels: a voltage connection?. Journal of Physiology, 2005, 567, 35-44.	1.3	244
33	Mechanisms Underlying Phasic and Sustained Secretion in Chromaffin Cells from Mouse Adrenal Slices. Neuron, 1999, 23, 607-615.	3.8	231
34	Dissection of Three Ca 2+ -Dependent Steps Leading to Secretion in Chromaffin Cells from Mouse Adrenal Slices. Neuron, 2000, 28, 537-545.	3.8	218
35	Comparison of functional properties of the Ca2+-activated cation channels TRPM4 and TRPM5 from mice. Cell Calcium, 2005, 37, 267-278.	1.1	215
36	Nicotine activates the chemosensory cation channel TRPA1. Nature Neuroscience, 2009, 12, 1293-1299.	7.1	214

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37	CaT1 and the Calcium Release-activated Calcium Channel Manifest Distinct Pore Properties. Journal of Biological Chemistry, 2001, 276, 47767-47770.	1.6	212
38	TRP channels: a TR(I)P through a world of multifunctional cation channels. Pflugers Archiv European Journal of Physiology, 2005, 451, 1-10.	1.3	204
39	Munc13-1 acts as a priming factor for large dense-core vesicles in bovine chromaffin cells. EMBO Journal, 2000, 19, 3586-3596.	3.5	200
40	Cannabidiol exerts sebostatic and antiinflammatory effects on human sebocytes. Journal of Clinical Investigation, 2014, 124, 3713-3724.	3.9	199
41	The Capsaicin Receptor TRPV1 Is a Crucial Mediator of the Noxious Effects of Mustard Oil. Current Biology, 2011, 21, 316-321.	1.8	189
42	Loss of high-frequency glucose-induced Ca ²⁺ oscillations in pancreatic islets correlates with impaired glucose tolerance in Trpm5 ^{â˜'/â˜'} mice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5208-5213.	3.3	187
43	Intracellular calcium dependence of large dense-core vesicle exocytosis in the absence of synaptotagmin I. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 11680-11685.	3.3	175
44	Mutations in the Gene Encoding the Calcium-Permeable Ion Channel TRPV4 Produce Spondylometaphyseal Dysplasia, Kozlowski Type and Metatropic Dysplasia. American Journal of Human Genetics, 2009, 84, 307-315.	2.6	173
45	Volume-activated Clâ˜' channels. General Pharmacology, 1996, 27, 1131-1140.	0.7	165
46	Differential expression of volumeâ€regulated anion channels during cell cycle progression of human cervical cancer cells. Journal of Physiology, 2000, 529, 385-394.	1.3	156
47	The SNARE protein SNAP-25 is linked to fast calcium triggering of exocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1627-1632.	3.3	156
48	Current understanding of mammalian TRP homologues. Cell Calcium, 2002, 31, 253-264.	1.1	156
49	Neuronal TRP channels: thermometers, pathfinders and life-savers. Trends in Neurosciences, 2008, 31, 287-295.	4.2	152
50	Transient receptor potential channels meet phosphoinositides. EMBO Journal, 2008, 27, 2809-2816.	3.5	147
51	Regulation of a swelling-activated chloride current in bovine endothelium by protein tyrosine phosphorylation and G proteins. Journal of Physiology, 1998, 506, 341-352.	1.3	145
52	Mg2+-dependent Gating and Strong Inward Rectification of the Cation Channel TRPV6. Journal of General Physiology, 2003, 121, 245-260.	0.9	143
53	Steviol glycosides enhance pancreatic beta-cell function and taste sensation by potentiation of TRPM5 channel activity. Nature Communications, 2017, 8, 14733.	5.8	136
54	TRP Channels in Disease. Science Signaling, 2005, 2005, re8-re8.	1.6	135

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55	Functional characterization of transient receptor potential channels in mouse urothelial cells. American Journal of Physiology - Renal Physiology, 2010, 298, F692-F701.	1.3	135
56	<scp>TRP</scp> Channels. , 2012, 2, 563-608.		134
57	Increased catecholamine secretion contributes to hypertension in TRPM4-deficient mice. Journal of Clinical Investigation, 2010, 120, 3267-3279.	3.9	134
58	Reduced intracellular ionic strength as the initial trigger for activation of endothelial volume-regulated anion channels. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5298-5303.	3.3	130
59	Role of Rho and Rho kinase in the activation of volume-regulated anion channels in bovine endothelial cells. Journal of Physiology, 1999, 516, 67-74.	1.3	128
60	Intracellular nucleotides and polyamines inhibit the Ca 2+ -activated cation channel TRPM4b. Pflugers Archiv European Journal of Physiology, 2004, 448, 70-75.	1.3	125
61	Calbindin-D28K dynamically controls TRPV5-mediated Ca2+ transport. EMBO Journal, 2006, 25, 2978-2988.	3.5	125
62	Blockers of volume-activated Cl? currents inhibit endothelial cell proliferation. Pflugers Archiv European Journal of Physiology, 1995, 431, 132-134.	1.3	124
63	The Selectivity Filter of the Cation Channel TRPM4. Journal of Biological Chemistry, 2005, 280, 22899-22906.	1.6	120
64	Determinants of 4Î±-Phorbol Sensitivity in Transmembrane Domains 3 and 4 of the Cation Channel TRPV4. Journal of Biological Chemistry, 2007, 282, 12796-12803.	1.6	119
65	The Sensory Coding of Warm Perception. Neuron, 2020, 106, 830-841.e3.	3.8	119
66	Inhibition by mibefradil, a novel calcium channel antagonist, of Ca2+ - and volume-activated Clâ^' channels in macrovascular endothelial cells. British Journal of Pharmacology, 1997, 121, 547-555.	2.7	115
67	Outer Pore Architecture of a Ca2+-selective TRP Channel. Journal of Biological Chemistry, 2004, 279, 15223-15230.	1.6	115
68	Systematic and quantitative mRNA expression analysis of TRP channel genes at the single trigeminal and dorsal root ganglion level in mouse. BMC Neuroscience, 2013, 14, 21.	0.8	115
69	TRPM8-independent Menthol-induced Ca2+ Release from Endoplasmic Reticulum and Golgi. Journal of Biological Chemistry, 2007, 282, 3325-3336.	1.6	112
70	Modulation of the transient receptor potential channel TRPA1 by phosphatidylinositol 4,5-biphosphate manipulators. Pflugers Archiv European Journal of Physiology, 2008, 457, 77-89.	1.3	111
71	Stimulus-specific Modulation of the Cation Channel TRPV4 by PACSIN 3. Journal of Biological Chemistry, 2008, 283, 6272-6280.	1.6	110
72	Activation of volume-regulated chloride currents by reduction of intracellular ionic strength in bovine endothelial cells. Journal of Physiology, 1998, 506, 353-361.	1.3	109

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73	Agonist-Induced Changes in Ca2+ Permeation through the Nociceptor Cation Channel TRPA1. Biophysical Journal, 2010, 98, 773-783.	0.2	107
74	Activation of TRPM3 by a potent synthetic ligand reveals a role in peptide release. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1363-72.	3.3	105
75	Transient Receptor Potential Channels in Sensory Neurons Are Targets of the Antimycotic Agent Clotrimazole. Journal of Neuroscience, 2008, 28, 576-586.	1.7	103
76	CAPS1 Regulates Catecholamine Loading of Large Dense-Core Vesicles. Neuron, 2005, 46, 75-88.	3.8	101
77	Decavanadate modulates gating of TRPM4 cation channels. Journal of Physiology, 2004, 560, 753-765.	1.3	99
78	Gustatory-mediated avoidance of bacterial lipopolysaccharides via TRPA1 activation in Drosophila. ELife, 2016, 5, .	2.8	88
79	Opening of an alternative ion permeation pathway in a nociceptor TRP channel. Nature Chemical Biology, 2014, 10, 188-195.	3.9	86
80	TRPV4 activation triggers protective responses to bacterial lipopolysaccharides in airway epithelial cells. Nature Communications, 2017, 8, 1059.	5.8	86
81	Crucial Role of Transient Receptor Potential Ankyrin 1 and Mast Cells in Induction of Nonallergic Airway Hyperreactivity in Mice. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 486-493.	2.5	85
82	Expression of Human pICln and ClC-6 in Xenopus Oocytes Induces an Identical Endogenous Chloride Conductance. Journal of Biological Chemistry, 1997, 272, 3615-3621.	1.6	84
83	Cholesterol loss during glutamate-mediated excitotoxicity. EMBO Journal, 2012, 31, 1764-1773.	3.5	83
84	Increased Î²-Adrenergic Inotropy in Ventricular Myocardium From Trpm4 ^{â^'/â^'} Mice. Circulation Research, 2014, 114, 283-294.	2.0	81
85	TRPs Make Sense. Journal of Membrane Biology, 2003, 192, 1-8.	1.0	79
86	Modulation of TRPs by PIPs. Journal of Physiology, 2007, 582, 939-944.	1.3	79
87	TRP channels in neurogastroenterology: opportunities for therapeutic intervention. British Journal of Pharmacology, 2011, 162, 18-37.	2.7	77
88	Mechanisms of Transient Receptor Potential Vanilloid 1 Activation and Sensitization by Allyl Isothiocyanate. Molecular Pharmacology, 2013, 84, 325-334.	1.0	77
89	Deletion or Inhibition of the Oxygen Sensor PHD1 Protects against Ischemic Stroke via Reprogramming of Neuronal Metabolism. Cell Metabolism, 2016, 23, 280-291.	7.2	77
90	The taste transduction channel TRPM5 is a locus for bitterâ€sweet taste interactions. FASEB Journal, 2008, 22, 1343-1355.	0.2	74

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91	Functional characterization of a chronic cyclophosphamideâ€induced overactive bladder model in mice. Neurourology and Urodynamics, 2011, 30, 1659-1665.	0.8	73
92	Influence of temperature on taste perception. Cellular and Molecular Life Sciences, 2007, 64, 377-381.	2.4	71
93	TRPM8. , 2007, , 329-344.		70
94	Regulation of the murine TRPP3 channel by voltage, pH, and changes in cell volume. Pflugers Archiv European Journal of Physiology, 2009, 457, 795-807.	1.3	70
95	Kinetic and pharmacological properties of the calciumm-activated chloride-current in macrovascular endothelial cells. Cell Calcium, 1997, 22, 53-63.	1.1	66
96	Use of a bicistronic GFP-expression vector to characterise ion channels after transfection in mammalian cells. Pflugers Archiv European Journal of Physiology, 1997, 434, 632-638.	1.3	66
97	Transient Receptor Potential Channels and Calcium Signaling. Cold Spring Harbor Perspectives in Biology, 2019, 11, a035048.	2.3	66
98	Molecular actions of smoking cessation drugs at Î±4Î²2 nicotinic receptors defined in crystal structures of a homologous binding protein. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9173-9178.	3.3	65
99	The Readily Releasable Pool of Vesicles in Chromaffin Cells Is Replenished in a Temperature-Dependent Manner and Transiently Overfills at 37Â°C. Journal of Neuroscience, 2000, 20, 8377-8383.	1.7	62
100	Restoration of Progranulin Expression Rescues Cortical Neuron Generation in an Induced Pluripotent Stem Cell Model of Frontotemporal Dementia. Stem Cell Reports, 2015, 4, 16-24.	2.3	62
101	Regulation of the transient receptor potential channel TRPM3 by phosphoinositides. Journal of General Physiology, 2015, 146, 51-63.	0.9	62
102	Bimodal effects of cinnamaldehyde and camphor on mouse TRPA1. Pflugers Archiv European Journal of Physiology, 2013, 465, 853-864.	1.3	61
103	Differential effects of lipopolysaccharide on mouse sensory TRP channels. Cell Calcium, 2018, 73, 72-81.	1.1	61
104	Regulation of TRP channels: a voltageâ€“lipid connection. Biochemical Society Transactions, 2007, 35, 105-108.	1.6	60
105	Block by fluoxetine of volume-regulated anion channels. British Journal of Pharmacology, 1999, 126, 508-514.	2.7	59
106	TRPM3 in temperature sensing and beyond. Temperature, 2015, 2, 201-213.	1.7	58
107	Trpv5/6 is vital for epithelial calcium uptake and bone formation. FASEB Journal, 2011, 25, 3197-3207.	0.2	57
108	Modulation of Voltage-dependent Properties of a Swelling-activated Clâ¯ Current. Journal of General Physiology, 1997, 110, 313-325.	0.9	56

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109	The Ca2+-activated cation channel TRPM4 is a negative regulator of angiotensin II-induced cardiac hypertrophy. Basic Research in Cardiology, 2015, 110, 43.	2.5	55
110	Evidence for the intracellular location of chloride channel (ClC)-type proteins: co-localization of ClC-6a and ClC-6c with the sarco/endoplasmic-reticulum Ca2+ pump SERCA2b. Biochemical Journal, 1998, 330, 1015-1021.	1.7	54
111	<scp>TRP</scp> channels in lower urinary tract dysfunction. British Journal of Pharmacology, 2014, 171, 2537-2551.	2.7	54
112	TRP Channel Cooperation for Nociception: Therapeutic Opportunities. Annual Review of Pharmacology and Toxicology, 2021, 61, 655-677.	4.2	54
113	Inhibition of volume-regulated anion channels by expression of the cystic fibrosis transmembrane conductance regulator. Journal of Physiology, 1999, 515, 75-85.	1.3	53
114	Cav3.2 calcium channels: The key protagonist in the supraspinal effect of paracetamol. Pain, 2014, 155, 764-772.	2.0	52
115	Quantifying and Modeling the Temperature-Dependent Gating of TRP Channels. , 2012, 162, 91-119.		50
116	Bladder dysfunction in a transgenic mouse model of multiple system atrophy. Movement Disorders, 2013, 28, 347-355.	2.2	50
117	Invertebrate TRP proteins as functional models for mammalian channels. Pflugers Archiv European Journal of Physiology, 2004, 449, 213-26.	1.3	49
118	Activation of TRPC1 Channel by Metabotropic Glutamate Receptor mGluR5 Modulates Synaptic Plasticity and Spatial Working Memory. Frontiers in Cellular Neuroscience, 2018, 12, 318.	1.8	48
119	Diversity of TRP Channel Activation. Novartis Foundation Symposium, 2008, , 140-154.	1.2	47
120	Mouse TRPA1 function and membrane localization are modulated by direct interactions with cholesterol. ELife, 2019, 8, .	2.8	47
121	Voltage-dependent block of endothelial volume-regulated anion channels by calix[4]arenes. American Journal of Physiology - Cell Physiology, 1998, 275, C646-C652.	2.1	45
122	Essential Role of Transient Receptor Potential M8 (TRPM8) in a Model of Acute Cold-induced Urinary Urgency. European Urology, 2015, 68, 655-661.	0.9	45
123	VAMP7 regulates constitutive membrane incorporation of the cold-activated channel TRPM8. Nature Communications, 2016, 7, 10489.	5.8	44
124	Allyl isothiocyanate sensitizes TRPV1 to heat stimulation. Pflugers Archiv European Journal of Physiology, 2014, 466, 507-515.	1.3	43
125	Inhibition of angiogenesis by blockers of volume-regulated anion channels. General Pharmacology, 2000, 34, 107-116.	0.7	42
126	TRP channel pores and local calcium signals. Cell Calcium, 2017, 66, 19-24.	1.1	42

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127	Intravesical Activation of the Cation Channel TRPV4 Improves Bladder Function in a Rat Model for Detrusor Underactivity. European Urology, 2018, 74, 336-345.	0.9	42
128	The pore of TRP channels: trivial or neglected?. Cell Calcium, 2003, 33, 299-302.	1.1	41
129	VEGF modulates NMDA receptors activity in cerebellar granule cells through Src-family kinases before synapse formation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13782-13787.	3.3	41
130	Modulation of synaptic plasticity and Tau phosphorylation by wild-type and mutant presenilin1. Neurobiology of Aging, 2008, 29, 639-652.	1.5	40
131	TRP Channels and Thermosensation. Handbook of Experimental Pharmacology, 2014, 223, 729-741.	0.9	40
132	TRPM4-dependent post-synaptic depolarization is essential for the induction of NMDA receptor-dependent LTP in CA1 hippocampal neurons. Pflugers Archiv European Journal of Physiology, 2016, 468, 593-607.	1.3	38
133	Functional expression of transient receptor potential channels in human endometrial stromal cells during the luteal phase of the menstrual cycle. Human Reproduction, 2015, 30, 1421-1436.	0.4	37
134	Ligand stoichiometry of the coldâ€•and mentholâ€activated channel TRPM8. Journal of Physiology, 2011, 589, 4827-4835.	1.3	36
135	Functional expression of the mechanosensitive PIEZO1 channel in primary endometrial epithelial cells and endometrial organoids. Scientific Reports, 2019, 9, 1779.	1.6	36
136	Transient receptor potential channels in sensory mechanisms of the lower urinary tract. Nature Reviews Urology, 2021, 18, 139-159.	1.9	34
137	Sensing the heat with TRPM3. Pflugers Archiv European Journal of Physiology, 2018, 470, 799-807.	1.3	33
138	Functional expression and pharmacological modulation of TRPM3 in human sensory neurons. British Journal of Pharmacology, 2020, 177, 2683-2695.	2.7	32
139	Gain of channel function and modified gating properties in TRPM3 mutants causing intellectual disability and epilepsy. ELife, 2020, 9, .	2.8	32
140	TRPV4 participates in the establishment of trailing adhesions and directional persistence of migrating cells. Pflugers Archiv European Journal of Physiology, 2015, 467, 2107-2119.	1.3	31
141	Transient receptor potential channel modulators as pharmacological treatments for lower urinary tract symptoms (<scp>LUTS</scp>): myth or reality?. BJU International, 2015, 115, 686-697.	1.3	31
142	Structure of the SthK Carboxy-Terminal Region Reveals a Gating Mechanism for Cyclic Nucleotide-Modulated Ion Channels. PLoS ONE, 2015, 10, e0116369.	1.1	31
143	The Use of Cystometry in Small Rodents: A Study of Bladder Chemosensation. Journal of Visualized Experiments, 2012, , e3869.	0.2	30
144	Cinnamaldehyde inhibits L-type calcium channels in mouse ventricular cardiomyocytes and vascular smooth muscle cells. Pflugers Archiv European Journal of Physiology, 2014, 466, 2089-2099.	1.3	30

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145	Differential interactions of bacterial lipopolysaccharides with lipid membranes: implications for TRPA1-mediated chemosensation. Scientific Reports, 2018, 8, 12010.	1.6	30
146	Multiple Types of Chloride Channels in Bovine Pulmonary Artery Endothelial Cells. Journal of Vascular Research, 1997, 34, 220-228.	0.6	29
147	Differential Effects of Bitter Compounds on the Taste Transduction Channels TRPM5 and IP3 Receptor Type 3. Chemical Senses, 2014, 39, 295-311.	1.1	29
148	Mutations in the voltageâ€sensing domain affect the alternative ion permeation pathway in the TRPM3 channel. Journal of Physiology, 2018, 596, 2413-2432.	1.3	29
149	Potent block of volumeâ€activated chloride currents in endothelial cells by the uncharged form of quinine and quinidine. British Journal of Pharmacology, 1996, 118, 1869-1871.	2.7	28
150	Inhibition by inositoltetrakisphosphates of calcium- and volume-activated Cl - currents in macrovascular endothelial cells. Pflugers Archiv European Journal of Physiology, 1998, 435, 637-644.	1.3	27
151	A TRP channel-steroid marriage. Nature Cell Biology, 2008, 10, 1383-1384.	4.6	26
152	TRPCs, GPCRs and the Bayliss effect. EMBO Journal, 2009, 28, 4-5.	3.5	26
153	GIS-based assessment of the biomass potential from phytoremediation of contaminated agricultural land in the Campine region in Belgium. Biomass and Bioenergy, 2011, 35, 4469-4480.	2.9	26
154	Definition of two agonist types at the mammalian cold-activated channel TRPM8. ELife, 2016, 5, .	2.8	25
155	Alternative splicing of ClC-6 (a member of the CIC chloride-channel family) transcripts generates three truncated isoforms one of which, ClC-6c, is kidney-specific. Biochemical Journal, 1997, 325, 269-276.	1.7	24
156	Crucial Role of TRPC1 and TRPC4 in Cystitis-Induced Neuronal Sprouting and Bladder Overactivity. PLoS ONE, 2013, 8, e69550.	1.1	24
157	Store-independent coupling between the Secretory Pathway Ca2+ transport ATPase SPCA1 and Orai1 in Golgi stress and Hailey-Hailey disease. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 855-862.	1.9	23
158	Upregulation of TRPM3 in nociceptors innervating inflamed tissue. ELife, 2020, 9, .	2.8	23
159	Modulation of the cold-activated cation channel TRPM8 by surface charge screening. Journal of Physiology, 2010, 588, 315-324.	1.3	22
160	Chronic Administration of Anticholinergics in Rats Induces a Shift from Muscarinic to Purinergic Transmission in the Bladder Wall. European Urology, 2013, 64, 502-510.	0.9	22
161	Insulin downregulates the expression of the Ca2+-activated nonselective cation channel TRPM5 in pancreatic islets from leptin-deficient mouse models. Pflugers Archiv European Journal of Physiology, 2014, 466, 611-621.	1.3	22
162	Channelling cold reception. Nature, 2007, 448, 147-148.	13.7	21

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163	The functional expression of transient receptor potential channels in the mouse endometrium. Human Reproduction, 2017, 32, 615-630.	0.4	20
164	Î”9-tetrahydrocannabivarin impairs epithelial calcium transport through inhibition of TRPV5 and TRPV6. Pharmacological Research, 2018, 136, 83-89.	3.1	20
165	Targeting TRP Channels â€“ Valuable Alternatives to Combat Pain, Lower Urinary Tract Disorders, and Type 2 Diabetes?. Trends in Pharmacological Sciences, 2019, 40, 669-683.	4.0	20
166	Osmosensation in TRPV2 dominant negative expressing skeletal muscle fibres. Journal of Physiology, 2015, 593, 3849-3863.	1.3	19
167	Disentangling the role of TRPM4 in hippocampus-dependent plasticity and learning: an electrophysiological, behavioral and FMRI approach. Brain Structure and Function, 2018, 223, 3557-3576.	1.2	19
168	Heat sensing involves a <scp>TRiPlet</scp> of ion channels. British Journal of Pharmacology, 2019, 176, 3893-3898.	2.7	17
169	To flourish or perish: evolutionary TRiPs into the sensory biology of plant-herbivore interactions. Pflugers Archiv European Journal of Physiology, 2019, 471, 213-236.	1.3	17
170	Distinct modes of perimembrane TRP channel turnover revealed by TIR-FRAP. Scientific Reports, 2014, 4, 7111.	1.6	15
171	TRPV1 dysfunction in cystinosis patients harboring the homozygous 57â€‰kb deletion. Scientific Reports, 2016, 6, 35395.	1.6	15
172	Urodynamic changes in mice with experimental autoimmune encephalomyelitis correlate with neurological impairment. Neurourology and Urodynamics, 2016, 35, 450-456.	0.8	15
173	TRPM4 inhibition by meclofenamate suppresses Ca2+-dependent triggered arrhythmias. European Heart Journal, 2022, 43, 4195-4207.	1.0	15
174	Functional and molecular characterisation of the bilateral pelvic nerve crush injury rat model for neurogenic detrusor underactivity. BJU International, 2019, 123, E86-E96.	1.3	13
175	Functional Expression of TRP Ion Channels in Endometrial Stromal Cells of Endometriosis Patients. International Journal of Molecular Sciences, 2018, 19, 2467.	1.8	12
176	Expression and Functional Role of TRPV4 in Bone Marrow-Derived CD11c+ Cells. International Journal of Molecular Sciences, 2019, 20, 3378.	1.8	12
177	Mimicking Sampsonâ€™s Retrograde Menstrual Theory in Rats: A New Rat Model for Ongoing Endometriosis-Associated Pain. International Journal of Molecular Sciences, 2020, 21, 2326.	1.8	12
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