Thomas Voets

List of Publications by Citations

221 papers	20,299 citations	76 h-index	140 g-index
278 ext. papers	22,405 ext. citations	7.7 avg, IF	6.64 L-index

#	Paper	IF	Citations
221	Transient receptor potential cation channels in disease. *Physiological Reviews*, **2007**, 87, 165-217	47.9	1100
220	Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels. *Nature* , **2003**, 424, 434-8	50.4	795
219	The principle of temperature-dependent gating in cold- and heat-sensitive TRP channels. *Nature*, **2004**, 430, 748-54	50.4	788
218	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	11.5	497
217	TRPM6 forms the Mg2+ influx channel involved in intestinal and renal Mg2+ absorption. *Journal of Biological Chemistry*, **2004**, 279, 19-25	5.4	451
216	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, 1273-8	11.5	442
215	Permeation and selectivity of TRP channels. *Annual Review of Physiology*, **2006**, 68, 685-717	23.1	442
214	Bimodal action of menthol on the transient receptor potential channel TRPA1. *Journal of Neuroscience*, **2007**, 27, 9874-84	6.6	375
213	Heat activation of TRPM5 underlies thermal sensitivity of sweet taste. *Nature*, **2005**, 438, 1022-5	50.4	357
212	TRPM3 is a nociceptor channel involved in the detection of noxious heat. *Neuron*, **2011**, 70, 482-94	13.9	352
211	TRPV4 calcium entry channel: a paradigm for gating diversity. *American Journal of Physiology - Cell Physiology*, **2004**, 286, C195-205	5.4	350
210	Munc18-1 promotes large dense-core vesicle docking. *Neuron*, **2001**, 31, 581-91	13.9	305
209	Modulation of the Ca2 permeable cation channel TRPV4 by cytochrome P450 epoxygenases in vascular endothelium. *Circulation Research*, **2005**, 97, 908-15	15.7	301
208	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, 19084-9	11.5	298
207	Gain-of-function mutations in TRPV4 cause autosomal dominant brachyolmia. *Nature Genetics*, **2008**, 40, 999-1003	36.3	295
206	Sensing with TRP channels. *Nature Chemical Biology*, **2005**, 1, 85-92	11.7	287
205	TRPA1 channels mediate acute neurogenic inflammation and pain produced by bacterial endotoxins. *Nature Communications*, **2014**, 5, 3125	17.4	280

204	Properties of volume-regulated anion channels in mammalian cells. *Progress in Biophysics and Molecular Biology*, **1997**, 68, 69-119	4.7	280
203	Calcium dependence of exocytosis and endocytosis at the cochlear inner hair cell afferent synapse. *Neuron*, **2001**, 29, 681-90	13.9	278
202	Homo- and heterotetrameric architecture of the epithelial Ca2+ channels TRPV5 and TRPV6. *EMBO Journal*, **2003**, 22, 776-85	13	266
201	Voltage dependence of the Ca2+-activated cation channel TRPM4. *Journal of Biological Chemistry*, **2003**, 278, 30813-20	5.4	255
200	Deletion of the transient receptor potential cation channel TRPV4 impairs murine bladder voiding. *Journal of Clinical Investigation*, **2007**, 117, 3453-62	15.9	250
199	The Ca2+-activated cation channel TRPM4 is regulated by phosphatidylinositol 4,5-biphosphate. *EMBO Journal*, **2006**, 25, 467-78	13	235
198	Peripheral thermosensation in mammals. *Nature Reviews Neuroscience*, **2014**, 15, 573-89	13.5	230
197	TRPs in our senses. *Current Biology*, **2008**, 18, R880-9	6.3	223
196	Molecular determinants of permeation through the cation channel TRPV4. *Journal of Biological Chemistry*, **2002**, 277, 33704-10	5.4	223
195	TRPV4-mediated calcium influx regulates terminal differentiation of osteoclasts. *Cell Metabolism*, **2008**, 8, 257-65	24.6	222
194	TRPM8 voltage sensor mutants reveal a mechanism for integrating thermal and chemical stimuli. *Nature Chemical Biology*, **2007**, 3, 174-82	11.7	218
193	Gating of TRP channels: a voltage connection?. *Journal of Physiology*, **2005**, 567, 35-44	3.9	214
192	Mechanisms underlying phasic and sustained secretion in chromaffin cells from mouse adrenal slices. *Neuron*, **1999**, 23, 607-15	13.9	213
191	Regulation of the Ca2+ sensitivity of the nonselective cation channel TRPM4. *Journal of Biological Chemistry*, **2005**, 280, 6423-33	5.4	204
190	A TRP channel trio mediates acute noxious heat sensing. *Nature*, **2018**, 555, 662-666	50.4	203
189	The puzzle of TRPV4 channelopathies. *EMBO Reports*, **2013**, 14, 152-63	6.5	203
188	Dissection of three Ca2+-dependent steps leading to secretion in chromaffin cells from mouse adrenal slices. *Neuron*, **2000**, 28, 537-45	13.9	196
187	CaT1 and the calcium release-activated calcium channel manifest distinct pore properties. *Journal of Biological Chemistry*, **2001**, 276, 47767-70	5.4	193

186	Munc13-1 acts as a priming factor for large dense-core vesicles in bovine chromaffin cells. *EMBO Journal*, **2000**, 19, 3586-96	13	190
185	Comparison of functional properties of the Ca2+-activated cation channels TRPM4 and TRPM5 from mice. *Cell Calcium*, **2005**, 37, 267-78	4	189
184	Nicotine activates the chemosensory cation channel TRPA1. *Nature Neuroscience*, **2009**, 12, 1293-9	25.5	186
183	The capsaicin receptor TRPV1 is a crucial mediator of the noxious effects of mustard oil. *Current Biology*, **2011**, 21, 316-21	6.3	167
182	TRP channels: a TR(I)P through a world of multifunctional cation channels. *Pflugers Archiv European Journal of Physiology*, **2005**, 451, 1-10	4.6	165
181	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, 11680-5	11.5	162
180	Loss of high-frequency glucose-induced Ca2+ oscillations in pancreatic islets correlates with impaired glucose tolerance in Trpm5-/- mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 5208-13	11.5	150
179	Current understanding of mammalian TRP homologues. *Cell Calcium*, **2002**, 31, 253-64	4	149
178	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, 307-15	11	148
177	Volume-activated Cl- channels. *General Pharmacology*, **1996**, 27, 1131-40		147
176	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, 1627-32	11.5	143
175	Differential expression of volume-regulated anion channels during cell cycle progression of human cervical cancer cells. *Journal of Physiology*, **2000**, 529 Pt 2, 385-94	3.9	141
174	Cannabidiol exerts sebostatic and antiinflammatory effects on human sebocytes. *Journal of Clinical Investigation*, **2014**, 124, 3713-24	15.9	138
173	Transient receptor potential channels meet phosphoinositides. *EMBO Journal*, **2008**, 27, 2809-16	13	131
172	Neuronal TRP channels: thermometers, pathfinders and life-savers. *Trends in Neurosciences*, **2008**, 31, 287-95	13.3	131
171	Regulation of a swelling-activated chloride current in bovine endothelium by protein tyrosine phosphorylation and G proteins. *Journal of Physiology*, **1998**, 506 (Pt 2), 341-52	3.9	126
170	Mg2+-dependent gating and strong inward rectification of the cation channel TRPV6. *Journal of General Physiology*, **2003**, 121, 245-60	3.4	124
169	Functional characterization of transient receptor potential channels in mouse urothelial cells. *American Journal of Physiology - Renal Physiology*, **2010**, 298, F692-701	4.3	117

168	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, 5298-303	11.5	116
167	Role of Rho and Rho kinase in the activation of volume-regulated anion channels in bovine endothelial cells. *Journal of Physiology*, **1999**, 516 (Pt 1), 67-74	3.9	111
166	Intracellular nucleotides and polyamines inhibit the Ca2+-activated cation channel TRPM4b. *Pflugers Archiv European Journal of Physiology*, **2004**, 448, 70-5	4.6	109
165	The selectivity filter of the cation channel TRPM4. *Journal of Biological Chemistry*, **2005**, 280, 22899-906	5.4	107
164	Increased catecholamine secretion contributes to hypertension in TRPM4-deficient mice. *Journal of Clinical Investigation*, **2010**, 120, 3267-79	15.9	106
163	Modulation of the transient receptor potential channel TRPA1 by phosphatidylinositol 4,5-biphosphate manipulators. *Pflugers Archiv European Journal of Physiology*, **2008**, 457, 77-89	4.6	101
162	Calbindin-D28K dynamically controls TRPV5-mediated Ca2+ transport. *EMBO Journal*, **2006**, 25, 2978-88	13	101
161	Blockers of volume-activated Cl- currents inhibit endothelial cell proliferation. *Pflugers Archiv European Journal of Physiology*, **1995**, 431, 132-4	4.6	101
160	Determinants of 4 alpha-phorbol sensitivity in transmembrane domains 3 and 4 of the cation channel TRPV4. *Journal of Biological Chemistry*, **2007**, 282, 12796-803	5.4	99
159	Outer pore architecture of a Ca2+-selective TRP channel. *Journal of Biological Chemistry*, **2004**, 279, 15223-30	5.4	99
158	Agonist-induced changes in Ca(2+) permeation through the nociceptor cation channel TRPA1. *Biophysical Journal*, **2010**, 98, 773-83	2.9	98
157	TRP channels. *Comprehensive Physiology*, **2012**, 2, 563-608	7.7	97
156	TRPM8-independent menthol-induced Ca2+ release from endoplasmic reticulum and Golgi. *Journal of Biological Chemistry*, **2007**, 282, 3325-36	5.4	97
155	Transient receptor potential channels in sensory neurons are targets of the antimycotic agent clotrimazole. *Journal of Neuroscience*, **2008**, 28, 576-86	6.6	96
154	Activation of volume-regulated chloride currents by reduction of intracellular ionic strength in bovine endothelial cells. *Journal of Physiology*, **1998**, 506 (Pt 2), 353-61	3.9	95
153	Inhibition by mibefradil, a novel calcium channel antagonist, of Ca(2+)- and volume-activated Cl- channels in macrovascular endothelial cells. *British Journal of Pharmacology*, **1997**, 121, 547-55	8.6	94
152	Stimulus-specific modulation of the cation channel TRPV4 by PACSIN 3. *Journal of Biological Chemistry*, **2008**, 283, 6272-80	5.4	94
151	TRP channels in disease. *Science Signaling*, **2005**, 2005, re8	8.8	93

150	CAPS1 regulates catecholamine loading of large dense-core vesicles. *Neuron*, **2005**, 46, 75-88	13.9	92
149	Steviol glycosides enhance pancreatic beta-cell function and taste sensation by potentiation of TRPM5 channel activity. *Nature Communications*, **2017**, 8, 14733	17.4	88
148	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	3.2	86
147	Decavanadate modulates gating of TRPM4 cation channels. *Journal of Physiology*, **2004**, 560, 753-65	3.9	86
146	Expression of human pICln and ClC-6 in Xenopus oocytes induces an identical endogenous chloride conductance. *Journal of Biological Chemistry*, **1997**, 272, 3615-21	5.4	76
145	TRPs make sense. *Journal of Membrane Biology*, **2003**, 192, 1-8	2.3	74
144	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, 486-93	10.2	73
143	Modulation of TRPs by PIPs. *Journal of Physiology*, **2007**, 582, 939-44	3.9	73
142	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	11.5	70
141	The taste transduction channel TRPM5 is a locus for bitter-sweet taste interactions. *FASEB Journal*, **2008**, 22, 1343-55	0.9	69
140	TRPV4 activation triggers protective responses to bacterial lipopolysaccharides in airway epithelial cells. *Nature Communications*, **2017**, 8, 1059	17.4	66
139	Mechanisms of transient receptor potential vanilloid 1 activation and sensitization by allyl isothiocyanate. *Molecular Pharmacology*, **2013**, 84, 325-34	4.3	65
138	Opening of an alternative ion permeation pathway in a nociceptor TRP channel. *Nature Chemical Biology*, **2014**, 10, 188-95	11.7	64
137	TRP channels in neurogastroenterology: opportunities for therapeutic intervention. *British Journal of Pharmacology*, **2011**, 162, 18-37	8.6	64
136	Gustatory-mediated avoidance of bacterial lipopolysaccharides via TRPA1 activation in Drosophila. *ELife*, **2016**, 5,	8.9	63
135	Regulation of the murine TRPP3 channel by voltage, pH, and changes in cell volume. *Pflugers Archiv European Journal of Physiology*, **2009**, 457, 795-807	4.6	60
134	Molecular actions of smoking cessation drugs at α4β2 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, 9173-8	11.5	59
133	Kinetic and pharmacological properties of the calcium-activated chloride-current in macrovascular endothelial cells. *Cell Calcium*, **1997**, 22, 53-63	4	59

132	Deletion or Inhibition of the Oxygen Sensor PHD1 Protects against Ischemic Stroke via Reprogramming of Neuronal Metabolism. *Cell Metabolism*, **2016**, 23, 280-91	24.6	58
131	Cholesterol loss during glutamate-mediated excitotoxicity. *EMBO Journal*, **2012**, 31, 1764-73	13	58
130	TRPM8. *Handbook of Experimental Pharmacology*, **2007**, 329-44	3.2	58
129	Influence of temperature on taste perception. *Cellular and Molecular Life Sciences*, **2007**, 64, 377-81	10.3	57
128	Functional characterization of a chronic cyclophosphamide-induced overactive bladder model in mice. *Neurourology and Urodynamics*, **2011**, 30, 1659-65	2.3	56
127	Use of a bicistronic GFP-expression vector to characterise ion channels after transfection in mammalian cells. *Pflugers Archiv European Journal of Physiology*, **1997**, 434, 632-8	4.6	55
126	Increased β-adrenergic inotropy in ventricular myocardium from Trpm4-/- mice. *Circulation Research*, **2014**, 114, 283-94	15.7	54
125	Regulation of TRP channels: a voltage-lipid connection. *Biochemical Society Transactions*, **2007**, 35, 105-8	5.1	54
124	Bimodal effects of cinnamaldehyde and camphor on mouse TRPA1. *Pflugers Archiv European Journal of Physiology*, **2013**, 465, 853-64	4.6	53
123	Modulation of voltage-dependent properties of a swelling-activated Cl- current. *Journal of General Physiology*, **1997**, 110, 313-25	3.4	53
122	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	8	51
121	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 (Pt 2), 1015-21	3.8	51
120	Block by fluoxetine of volume-regulated anion channels. *British Journal of Pharmacology*, **1999**, 126, 508-16	8.6	50
119	The readily releasable pool of vesicles in chromaffin cells is replenished in a temperature-dependent manner and transiently overfills at 37 degrees C. *Journal of Neuroscience*, **2000**, 20, 8377-83	6.6	49
118	Trpv5/6 is vital for epithelial calcium uptake and bone formation. *FASEB Journal*, **2011**, 25, 3197-207	0.9	48
117	TRPM3 in temperature sensing and beyond. *Temperature*, **2015**, 2, 201-13	5.2	45
116	TRP channels in lower urinary tract dysfunction. *British Journal of Pharmacology*, **2014**, 171, 2537-51	8.6	44
115	Bladder dysfunction in a transgenic mouse model of multiple system atrophy. *Movement Disorders*, **2013**, 28, 347-55	7	44

114	The Sensory Coding of Warm Perception. *Neuron*, **2020**, 106, 830-841.e3	13.9	43
113	Differential effects of lipopolysaccharide on mouse sensory TRP channels. *Cell Calcium*, **2018**, 73, 72-81	4	42
112	Regulation of the transient receptor potential channel TRPM3 by phosphoinositides. *Journal of General Physiology*, **2015**, 146, 51-63	3.4	41
111	Ca(v)3.2 calcium channels: the key protagonist in the supraspinal effect of paracetamol. *Pain*, **2014**, 155, 764-772	8	41
110	The Ca(2+)-activated cation channel TRPM4 is a negative regulator of angiotensin II-induced cardiac hypertrophy. *Basic Research in Cardiology*, **2015**, 110, 43	11.8	40
109	Quantifying and modeling the temperature-dependent gating of TRP channels. *Reviews of Physiology, Biochemistry and Pharmacology*, **2012**, 162, 91-119	2.9	40
108	Inhibition of volume-regulated anion channels by expression of the cystic fibrosis transmembrane conductance regulator. *Journal of Physiology*, **1999**, 515 (Pt 1), 75-85	3.9	40
107	Modulation of synaptic plasticity and Tau phosphorylation by wild-type and mutant presenilin1. *Neurobiology of Aging*, **2008**, 29, 639-52	5.6	39
106	Invertebrate TRP proteins as functional models for mammalian channels. *Pflugers Archiv European Journal of Physiology*, **2004**, 449, 213-26	4.6	39
105	The pore of TRP channels: trivial or neglected?. *Cell Calcium*, **2003**, 33, 299-302	4	39
104	Voltage-dependent block of endothelial volume-regulated anion channels by calix[4]arenes. *American Journal of Physiology - Cell Physiology*, **1998**, 275, C646-52	5.4	38
103	Inhibition of angiogenesis by blockers of volume-regulated anion channels. *General Pharmacology*, **2000**, 34, 107-16		37
102	Allyl isothiocyanate sensitizes TRPV1 to heat stimulation. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 507-15	4.6	35
101	TRP channel pores and local calcium signals. *Cell Calcium*, **2017**, 66, 19-24	4	32
100	Ligand stoichiometry of the cold- and menthol-activated channel TRPM8. *Journal of Physiology*, **2011**, 589, 4827-35	3.9	32
99	Diversity of TRP Channel Activation. *Novartis Foundation Symposium*, **2008**, 140-154		32
98	VAMP7 regulates constitutive membrane incorporation of the cold-activated channel TRPM8. *Nature Communications*, **2016**, 7, 10489	17.4	32
97	Activation of TRPC1 Channel by Metabotropic Glutamate Receptor mGluR5 Modulates Synaptic Plasticity and Spatial Working Memory. *Frontiers in Cellular Neuroscience*, **2018**, 12, 318	6.1	32

96	Intravesical Activation of the Cation Channel TRPV4 Improves Bladder Function in a Rat Model for Detrusor Underactivity. *European Urology*, **2018**, 74, 336-345	10.2	30
95	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, 13782-7	11.5	30
94	Functional expression of transient receptor potential channels in human endometrial stromal cells during the luteal phase of the menstrual cycle. *Human Reproduction*, **2015**, 30, 1421-36	5.7	29
93	Essential role of transient receptor potential M8 (TRPM8) in a model of acute cold-induced urinary urgency. *European Urology*, **2015**, 68, 655-61	10.2	29
92	TRP channels and thermosensation. *Handbook of Experimental Pharmacology*, **2014**, 223, 729-41	3.2	29
91	Transient Receptor Potential Channels and Calcium Signaling. *Cold Spring Harbor Perspectives in Biology*, **2019**, 11,	10.2	27
90	Sensing the heat with TRPM3. *Pflugers Archiv European Journal of Physiology*, **2018**, 470, 799-807	4.6	27
89	Multiple types of chloride channels in bovine pulmonary artery endothelial cells. *Journal of Vascular Research*, **1997**, 34, 220-8	1.9	26
88	Mouse TRPA1 function and membrane localization are modulated by direct interactions with cholesterol. *ELife*, **2019**, 8,	8.9	25
87	Differential effects of bitter compounds on the taste transduction channels TRPM5 and IP3 receptor type 3. *Chemical Senses*, **2014**, 39, 295-311	4.8	24
86	TRPV4 participates in the establishment of trailing adhesions and directional persistence of migrating cells. *Pflugers Archiv European Journal of Physiology*, **2015**, 467, 2107-19	4.6	24
85	TRPCs, GPCRs and the Bayliss effect. *EMBO Journal*, **2009**, 28, 4-5	13	24
84	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 (Pt 1), 269-76	3.8	24
83	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	4.6	23
82	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	5.3	23
81	Functional expression of the mechanosensitive PIEZO1 channel in primary endometrial epithelial cells and endometrial organoids. *Scientific Reports*, **2019**, 9, 1779	4.9	22
80	Differential interactions of bacterial lipopolysaccharides with lipid membranes: implications for TRPA1-mediated chemosensation. *Scientific Reports*, **2018**, 8, 12010	4.9	22
79	The use of cystometry in small rodents: a study of bladder chemosensation. *Journal of Visualized Experiments*, **2012**, e3869	1.6	22

78	Inhibition by inositoltetrakisphosphates of calcium- and volume-activated Cl- currents in macrovascular endothelial cells. *Pflugers Archiv European Journal of Physiology*, **1998**, 435, 637-44	4.6	22
77	A TRP channel-steroid marriage. *Nature Cell Biology*, **2008**, 10, 1383-4	23.4	22
76	Potent block of volume-activated chloride currents in endothelial cells by the uncharged form of quinine and quinidine. *British Journal of Pharmacology*, **1996**, 118, 1869-71	8.6	22
75	Cinnamaldehyde inhibits L-type calcium channels in mouse ventricular cardiomyocytes and vascular smooth muscle cells. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 2089-99	4.6	20
74	Modulation of the cold-activated cation channel TRPM8 by surface charge screening. *Journal of Physiology*, **2010**, 588, 315-24	3.9	20
73	Transient receptor potential channel modulators as pharmacological treatments for lower urinary tract symptoms (LUTS): myth or reality?. *BJU International*, **2015**, 115, 686-97	5.6	19
72	Chronic administration of anticholinergics in rats induces a shift from muscarinic to purinergic transmission in the bladder wall. *European Urology*, **2013**, 64, 502-10	10.2	19
71	Crucial role of TRPC1 and TRPC4 in cystitis-induced neuronal sprouting and bladder overactivity. *PLoS ONE*, **2013**, 8, e69550	3.7	18
70	Mutations in the voltage-sensing domain affect the alternative ion permeation pathway in the TRPM3 channel. *Journal of Physiology*, **2018**, 596, 2413-2432	3.9	17
69	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, 611-21	4.6	17
68	Structure of the SthK carboxy-terminal region reveals a gating mechanism for cyclic nucleotide-modulated ion channels. *PLoS ONE*, **2015**, 10, e0116369	3.7	17
67	The functional expression of transient receptor potential channels in the mouse endometrium. *Human Reproduction*, **2017**, 32, 615-630	5.7	16
66	Store-independent coupling between the Secretory Pathway Ca transport ATPase SPCA1 and Orai1 in Golgi stress and Hailey-Hailey disease. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2018**, 1865, 855-862	4.9	16
65	Functional expression and pharmacological modulation of TRPM3 in human sensory neurons. *British Journal of Pharmacology*, **2020**, 177, 2683-2695	8.6	15
64	Definition of two agonist types at the mammalian cold-activated channel TRPM8. *ELife*, **2016**, 5,	8.9	15
63	Osmosensation in TRPV2 dominant negative expressing skeletal muscle fibres. *Journal of Physiology*, **2015**, 593, 3849-63	3.9	13
62	Gain of channel function and modified gating properties in TRPM3 mutants causing intellectual disability and epilepsy. *ELife*, **2020**, 9,	8.9	13
61	To flourish or perish: evolutionary TRiPs into the sensory biology of plant-herbivore interactions. *Pflugers Archiv European Journal of Physiology*, **2019**, 471, 213-236	4.6	13

60	Transient receptor potential channels in sensory mechanisms of the lower urinary tract. *Nature Reviews Urology*, **2021**, 18, 139-159	5.5	13
59	Distinct modes of perimembrane TRP channel turnover revealed by TIR-FRAP. *Scientific Reports*, **2014**, 4, 7111	4.9	12
58	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	4	12
57	Targeting TRP Channels - Valuable Alternatives to Combat Pain, Lower Urinary Tract Disorders, and Type 2 Diabetes?. *Trends in Pharmacological Sciences*, **2019**, 40, 669-683	13.2	11
56	TRPV1 dysfunction in cystinosis patients harboring the homozygous 57 kb deletion. *Scientific Reports*, **2016**, 6, 35395	4.9	11
55	TRP Channel Cooperation for Nociception: Therapeutic Opportunities. *Annual Review of Pharmacology and Toxicology*, **2021**, 61, 655-677	17.9	11
54	Tetrahydrocannabivarin impairs epithelial calcium transport through inhibition of TRPV5 and TRPV6. *Pharmacological Research*, **2018**, 136, 83-89	10.2	10
53	Urodynamic changes in mice with experimental autoimmune encephalomyelitis correlate with neurological impairment. *Neurourology and Urodynamics*, **2016**, 35, 450-6	2.3	9
52	Heat sensing involves a TRiPlet of ion channels. *British Journal of Pharmacology*, **2019**, 176, 3893-3898	8.6	9
51	Functional Expression of TRP Ion Channels in Endometrial Stromal Cells of Endometriosis Patients. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	8
50	Expression and Functional Role of TRPV4 in Bone Marrow-Derived CD11c Cells. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	8
49	Lack of correlation between the amplitudes of TRP channel-mediated responses to weak and strong stimuli in intracellular Ca(2+) imaging experiments. *Cell Calcium*, **2013**, 54, 362-74	4	8
48	The GXGXG motif in the pI(Cln) protein is not important for the nucleotide sensitivity of the pI(Cln)-induced Cl- current in Xenopus oocytes. *FEBS Letters*, **1998**, 426, 171-3	3.8	8
47	Signature and Pathophysiology of Non-canonical Pores in Voltage-Dependent Cation Channels. *Reviews of Physiology, Biochemistry and Pharmacology*, **2016**, 170, 67-99	2.9	7
46	Functional and molecular characterisation of the bilateral pelvic nerve crush injury rat model for neurogenic detrusor underactivity. *BJU International*, **2019**, 123, E86-E96	5.6	7
45	Different ligands of the TRPV3 cation channel cause distinct conformational changes as revealed by intrinsic tryptophan fluorescence quenching. *Journal of Biological Chemistry*, **2015**, 290, 12964-74	5.4	6
44	Upregulation of TRPM3 in nociceptors innervating inflamed tissue. *ELife*, **2020**, 9,	8.9	6
43	The puzzle of TRPV4 channelopathies. *EMBO Reports*, **2013**, 14, 845-845	6.5	5

42	TRP channel blamed for burning cold after a tropical fish meal. *EMBO Journal*, **2012**, 31, 3785-7	13	5
41	Volatile anaesthetics inhibit the thermosensitive nociceptor ion channel transient receptor potential melastatin 3 (TRPM3). *Biochemical Pharmacology*, **2020**, 174, 113826	6	4
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