Bernd Nilius

List of Publications by Year in Descending Order

310 papers	30,907 citations	97 h-index	167 g-index
398 ext. papers	33,508 ext. citations	7.8 avg, IF	7.19 L-index

#	Paper	IF	Citations
310	Development and characterization of a monoclonal antibody blocking human TRPM4 channel. *Scientific Reports*, **2021**, 11, 10411	4.9	3
309	BH4 activates CaMKK2 and rescues the cardiomyopathic phenotype in rodent models of diabetes. *Life Science Alliance*, **2020**, 3,	5.8	3
308	Mammalian Transient Receptor Potential TRPA1 Channels: From Structure to Disease. *Physiological Reviews*, **2020**, 100, 725-803	47.9	96
307	Comparison of Anti-oncotic Effect of TRPM4 Blocking Antibody in Neuron, Astrocyte and Vascular Endothelial Cell Under Hypoxia. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 562584	5.7	6
306	Tetrahydrobiopterin enhances mitochondrial biogenesis and cardiac contractility via stimulation of PGC1β signaling. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2019**, 1865, 165524	6.9	6
305	TRPM4-specific blocking antibody attenuates reperfusion injury in a rat model of stroke. *Pflugers Archiv European Journal of Physiology*, **2019**, 471, 1455-1466	4.6	12
304	Mouse TRPA1 function and membrane localization are modulated by direct interactions with cholesterol. *ELife*, **2019**, 8,	8.9	25
303	Author response: Mouse TRPA1 function and membrane localization are modulated by direct interactions with cholesterol **2019**,		2
302	Non-Invasive Multimodality Imaging Directly Shows TRPM4 Inhibition Ameliorates Stroke Reperfusion Injury. *Translational Stroke Research*, **2019**, 10, 91-103	7.8	19
301	TRPV4 Stimulation Releases ATP via Pannexin Channels in Human Pulmonary Fibroblasts. *American Journal of Respiratory Cell and Molecular Biology*, **2018**, 59, 87-95	5.7	24
300	Gaseous Signaling Molecules in Cardiovascular Function: From Mechanisms to Clinical Translation. *Reviews of Physiology, Biochemistry and Pharmacology*, **2018**, 174, 81-156	2.9	14
299	Current and upcoming mitochondrial targets for cancer therapy. *Seminars in Cancer Biology*, **2017**, 47, 154-167	12.7	34
298	Treatment of hypertension by increasing impaired endothelial TRPV4-KCa2.3 interaction. *EMBO Molecular Medicine*, **2017**, 9, 1491-1503	12	21
297	The asparagine 533 residue in the outer pore loop region of the mouse PKD2L1 channel is essential for its voltage-dependent inactivation. *FEBS Open Bio*, **2017**, 7, 1392-1401	2.7	2
296	The Sur1-Trpm4 channel regulates NOS2 transcription in TLR4-activated microglia. *Journal of Neuroinflammation*, **2016**, 13, 130	10.1	49
295	TRPV4 participates in pressure-induced inhibition of renin secretion by juxtaglomerular cells. *Journal of Physiology*, **2016**, 594, 7327-7340	3.9	7
294	TRPV4: Molecular Conductor of a Diverse Orchestra. *Physiological Reviews*, **2016**, 96, 911-73	47.9	206

293	Biophysics and Physiology of the Volume-Regulated Anion Channel (VRAC)/Volume-Sensitive Outwardly Rectifying Anion Channel (VSOR). *Pflugers Archiv European Journal of Physiology*, **2016**, 468, 371-83	4.6	103
292	Molecular physiology of anion channels: dual function proteins and new structural motifs--a special issue. *Pflugers Archiv European Journal of Physiology*, **2016**, 468, 369-70	4.6	2
291	Cardiac Response to Oxidative Stress Induced by Mitochondrial Dysfunction. *Reviews of Physiology, Biochemistry and Pharmacology*, **2016**, 170, 101-27	2.9	11
290	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
289	Cereblon in health and disease. *Pflugers Archiv European Journal of Physiology*, **2016**, 468, 1299-309	4.6	24
288	TRPV4 is associated with central rather than nephrogenic osmoregulation. *Pflugers Archiv European Journal of Physiology*, **2016**, 468, 1595-607	4.6	17
287	Electrophysiological characterization of voltage-dependent calcium currents and TRPV4 currents in human pulmonary fibroblasts. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2016**, 310, L603-14	5.8	8
286	Echinochrome A regulates phosphorylation of phospholamban Ser16 and Thr17 suppressing cardiac SERCA2A Ca□+ reuptake. *Pflugers Archiv European Journal of Physiology*, **2015**, 467, 2151-63	4.6	18
285	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
284	Transient Receptor Potential Dysfunctions in Hereditary Diseases **2015**, 13-33		3
283	Are Brain TRPs Viable Targets for Curing Neurodegenerative Disorders and Improving Mental Health? **2015**, 419-456		5
282	Interaction of SiO2 nanoparticles with neuronal cells: Ionic mechanisms involved in the perturbation of calcium homeostasis. *International Journal of Biochemistry and Cell Biology*, **2015**, 66, 101-11	5.6	28
281	Examination of Single Nucleotide Polymorphisms (SNPs) in Transient Receptor Potential (TRP) Ion Channels in Chronic Fatigue Syndrome Patients. *Immunology and Immunogenetics Insights*, **2015**, 7, III.S25147	9	8
280	Amazing T-type calcium channels: updating functional properties in health and disease. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 623-6	4.6	14
279	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
278	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
277	TRPM4 inhibition promotes angiogenesis after ischemic stroke. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 563-76	4.6	50
276	Opening of an alternative ion permeation pathway in a nociceptor TRP channel. *Nature Chemical Biology*, **2014**, 10, 188-95	11.7	64

275	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
274	Increased β-adrenergic inotropy in ventricular myocardium from Trpm4-/- mice. *Circulation Research*, **2014**, 114, 283-94	15.7	54
273	Peripheral thermosensation in mammals. *Nature Reviews Neuroscience*, **2014**, 15, 573-89	13.5	230
272	Transient receptor potential channels as drug targets: from the science of basic research to the art of medicine. *Pharmacological Reviews*, **2014**, 66, 676-814	22.5	320
271	Single point mutations of aromatic residues in transmembrane helices 5 and -6 differentially affect TRPV4 activation by 4αPDD and hypotonicity: implications for the role of the pore region in regulating TRPV4 activity. *Cell Calcium*, **2014**, 55, 38-47	4	11
270	Molecular functions of anoctamin 6 (TMEM16F): a chloride channel, cation channel, or phospholipid scramblase?. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 407-14	4.6	80
269	Transient receptor potential vanilloid 1 activation by dietary capsaicin promotes urinary sodium excretion by inhibiting epithelial sodium channel β-subunit-mediated sodium reabsorption. *Hypertension*, **2014**, 64, 397-404	8.5	31
268	TRPV3: time to decipher a poorly understood family member!. *Journal of Physiology*, **2014**, 592, 295-304	3.9	89
267	Allyl isothiocyanate sensitizes TRPV1 to heat stimulation. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 507-15	4.6	35
266	Gating modulation by heat of the polycystin transient receptor potential channel PKD2L1 (TRPP3). *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 1933-40	4.6	11
265	What do we really know and what do we need to know: some controversies, perspectives, and surprises. *Handbook of Experimental Pharmacology*, **2014**, 223, 1239-80	3.2	13
264	TRPs: truly remarkable proteins. *Handbook of Experimental Pharmacology*, **2014**, 222, 1-12	3.2	37
263	Dietary capsaicin prevents nonalcoholic fatty liver disease through transient receptor potential vanilloid 1-mediated peroxisome proliferator-activated receptor δ activation. *Pflugers Archiv European Journal of Physiology*, **2013**, 465, 1303-16	4.6	44
262	Bimodal effects of cinnamaldehyde and camphor on mouse TRPA1. *Pflugers Archiv European Journal of Physiology*, **2013**, 465, 853-64	4.6	53
261	Spices: the savory and beneficial science of pungency. *Reviews of Physiology, Biochemistry and Pharmacology*, **2013**, 164, 1-76	2.9	104
260	Transient receptor potentials (TRPs) and anaphylaxis. *Current Allergy and Asthma Reports*, **2013**, 13, 93-100	3.6	12
259	The puzzle of TRPV4 channelopathies. *EMBO Reports*, **2013**, 14, 152-63	6.5	203
258	Mechanisms of transient receptor potential vanilloid 1 activation and sensitization by allyl isothiocyanate. *Molecular Pharmacology*, **2013**, 84, 325-34	4.3	65

257	TRPV3: a Nmore than skinnyNchannel. *Experimental Dermatology*, **2013**, 22, 447-52	4	56
256	Transient receptor potential TRP channels as therapeutic drug targets: next round!. *Current Topics in Medicinal Chemistry*, **2013**, 13, 244-6	3	13
255	TRPP2 and TRPV4 form an EGF-activated calcium permeable channel at the apical membrane of renal collecting duct cells. *PLoS ONE*, **2013**, 8, e73424	3.7	45
254	Transient receptor potential (TRP) cation channels in diabetes. *Current Topics in Medicinal Chemistry* , **2013**, 13, 258-69	3	16
253	TRPA1 and TRPV4 mediate paclitaxel-induced peripheral neuropathy in mice via a glutathione-sensitive mechanism. *Pflugers Archiv European Journal of Physiology*, **2012**, 463, 561-9	4.6	152
252	Temperature-dependent calcium-induced calcium release via InsP3 receptors in mouse olfactory ensheathing glial cells. *Cell Calcium*, **2012**, 52, 113-23	4	14
251	TRP channels. *Comprehensive Physiology*, **2012**, 2, 563-608	7.7	97
250	Sensing pressure with ion channels. *Trends in Neurosciences*, **2012**, 35, 477-86	13.3	118
249	The use of cystometry in small rodents: a study of bladder chemosensation. *Journal of Visualized Experiments*, **2012**, e3869	1.6	22
248	The transient receptor potential channel TRPA1: from gene to pathophysiology. *Pflugers Archiv European Journal of Physiology*, **2012**, 464, 425-58	4.6	252
247	Introduction to TRPs: A Quest for Novel Drug Targets. *Methods in Pharmacology and Toxicology*, **2012**, 3-12	1.1	
246	TRPs in the Brain. *Reviews of Physiology, Biochemistry and Pharmacology*, **2012**, 163, 27-64	2.9	44
245	The angiotensin receptor blocker and PPAR-agonist, telmisartan, delays inactivation of voltage-gated sodium channel in rat heart: novel mechanism of drug action. *Pflugers Archiv European Journal of Physiology*, **2012**, 464, 631-43	4.6	14
244	Vascular hypoxic preconditioning relies on TRPV4-dependent calcium influx and proper intercellular gap junctions communication. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 2241-9	9.4	42
243	TRPV1 activation prevents nonalcoholic fatty liver through UCP2 upregulation in mice. *Pflugers Archiv European Journal of Physiology*, **2012**, 463, 727-32	4.6	35
242	The Nheadache treeNvia umbellulone and TRPA1 activates the trigeminovascular system. *Brain*, **2012** , 135, 376-90	11.2	119
241	Activation of the cold-sensing TRPM8 channel triggers UCP1-dependent thermogenesis and prevents obesity. *Journal of Molecular Cell Biology*, **2012**, 4, 88-96	6.3	160
240	TRPV1 activation improves exercise endurance and energy metabolism through PGC-1 upregulation in mice. *Cell Research*, **2012**, 22, 551-64	24.7	113

239	Transient receptor potential channel promiscuity frustrates constellation pharmacology. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E3338; author reply E338	11.5	4
238	Transient Receptor Potential (TRP) Channels in the Brain: the Good and the Ugly. *European Review*, **2012**, 20, 343-355	0.3	7
237	Ano6 functions as a positive modulator of volume-regulated anion channels. *FASEB Journal*, **2012**, 26, 695.2	0.9	
236	Tasty and healthy TR(i)Ps. The human quest for culinary pungency. *EMBO Reports*, **2011**, 12, 1094-101	6.5	26
235	Electrophysiological properties of heteromeric TRPV4-C1 channels. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 2789-97	3.8	42
234	TRPM3 is a nociceptor channel involved in the detection of noxious heat. *Neuron*, **2011**, 70, 482-94	13.9	352
233	Activation of TRPV4 channels reduces migration of immortalized neuroendocrine cells. *Journal of Neurochemistry*, **2011**, 116, 606-15	6	23
232	Irritating channels: the case of TRPA1. *Journal of Physiology*, **2011**, 589, 1543-9	3.9	101
231	Oxaliplatin elicits mechanical and cold allodynia in rodents via TRPA1 receptor stimulation. *Pain*, **2011**, 152, 1621-1631	8	220
230	The capsaicin receptor TRPV1 is a crucial mediator of the noxious effects of mustard oil. *Current Biology*, **2011**, 21, 316-21	6.3	167
229	TRPC channels are involved in calcium-dependent migration and proliferation in immortalized GnRH neurons. *Cell Calcium*, **2011**, 49, 387-94	4	28
228	Bimodal effect of alkalization on the polycystin transient receptor potential channel, PKD2L1. *Pflugers Archiv European Journal of Physiology*, **2011**, 461, 507-13	4.6	21
227	Ligustilide: a novel TRPA1 modulator. *Pflugers Archiv European Journal of Physiology*, **2011**, 462, 841-9	4.6	45
226	Umbellulone modulates TRP channels. *Pflugers Archiv European Journal of Physiology*, **2011**, 462, 861-70	4.6	35
225	Fetal akinesia in metatropic dysplasia: The combined phenotype of chondrodysplasia and neuropathy?. *American Journal of Medical Genetics, Part A*, **2011**, 155A, 2860-4	2.5	24
224	The transient receptor potential family of ion channels. *Genome Biology*, **2011**, 12, 218	18.3	531
223	Transient receptor potential cation channels in pancreatic □cells. *Reviews of Physiology, Biochemistry and Pharmacology*, **2011**, 161, 87-110	2.9	49
222	Pressing and squeezing with Piezos. *EMBO Reports*, **2010**, 11, 902-3	6.5	20

221	Modulation of the cold-activated cation channel TRPM8 by surface charge screening. *Journal of Physiology*, **2010**, 588, 315-24	3.9	20
220	TRP channels in human prostate. *Scientific World Journal, The*, **2010**, 10, 1597-611	2.2	28
219	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
218	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
217	Functional characterization of transient receptor potential channels in mouse urothelial cells. *American Journal of Physiology - Renal Physiology*, **2010**, 298, F692-701	4.3	117
216	Depletion of intracellular Ca2+ stores stimulates the translocation of vanilloid transient receptor potential 4-c1 heteromeric channels to the plasma membrane. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 2249-55	9.4	66
215	Agonist-induced changes in Ca(2+) permeation through the nociceptor cation channel TRPA1. *Biophysical Journal*, **2010**, 98, 773-83	2.9	98
214	The role of transient receptor potential cation channels in Ca2+ signaling. *Cold Spring Harbor Perspectives in Biology*, **2010**, 2, a003962	10.2	284
213	Transient receptor potential channelopathies. *Pflugers Archiv European Journal of Physiology*, **2010**, 460, 437-50	4.6	117
212	The endothelial saga: the past, the present, the future. *Pflugers Archiv European Journal of Physiology*, **2010**, 459, 787-92	4.6	16
211	The vanilloid transient receptor potential channel TRPV4: from structure to disease. *Progress in Biophysics and Molecular Biology*, **2010**, 103, 2-17	4.7	249
210	Dominant TRPV4 mutations in nonlethal and lethal metatropic dysplasia. *American Journal of Medical Genetics, Part A*, **2010**, 152A, 1169-77	2.5	71
209	Increased catecholamine secretion contributes to hypertension in TRPM4-deficient mice. *Journal of Clinical Investigation*, **2010**, 120, 3267-79	15.9	106
208	Functional characterization of TMEM16 anion channels. *FASEB Journal*, **2010**, 24, 608.12	0.9	
207	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
206	TRPM4 regulates migration of mast cells in mice. *Cell Calcium*, **2009**, 45, 226-32	4	81
205	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
204	Where is TRPV1 expressed in the bladder, do we see the real channel?. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2009**, 379, 421-5	3.4	71

203	TRPCs, GPCRs and the Bayliss effect. *EMBO Journal*, **2009**, 28, 4-5	13	24
202	De novo expression of Trpm4 initiates secondary hemorrhage in spinal cord injury. *Nature Medicine*, **2009**, 15, 185-91	50.5	163
201	Nicotine activates the chemosensory cation channel TRPA1. *Nature Neuroscience*, **2009**, 12, 1293-9	25.5	186
200	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
199	Modulation of the transient receptor potential vanilloid channel TRPV4 by 4alpha-phorbol esters: a structure-activity study. *Journal of Medicinal Chemistry*, **2009**, 52, 2933-9	8.3	59
198	Polycystins under pressure. *Cell*, **2009**, 139, 466-7	56.2	7
197	Pharmacology of vanilloid transient receptor potential cation channels. *Molecular Pharmacology*, **2009**, 75, 1262-79	4.3	322
196	Lipid and protein interactions at the C-terminal part of TRPM4. *FASEB Journal*, **2009**, 23, 1000.6	0.9	
195	EGFR augments cell proliferation in polycystic kidney disease through activation of a novel ion channel. *FASEB Journal*, **2009**, 23, 604.6	0.9	
194	Transient receptor potential channels meet phosphoinositides. *EMBO Journal*, **2008**, 27, 2809-16	13	131
193	A TRP channel-steroid marriage. *Nature Cell Biology*, **2008**, 10, 1383-4	23.4	22
192	Gain-of-function mutations in TRPV4 cause autosomal dominant brachyolmia. *Nature Genetics*, **2008**, 40, 999-1003	36.3	295
191	TRPs in our senses. *Current Biology*, **2008**, 18, R880-9	6.3	223
190	Neuronal TRP channels: thermometers, pathfinders and life-savers. *Trends in Neurosciences*, **2008**, 31, 287-95	13.3	131
189	HGF/SF and menthol increase human glioblastoma cell calcium and migration. *Biochemical and Biophysical Research Communications*, **2008**, 372, 210-5	3.4	92
188	TRPV4-mediated calcium influx regulates terminal differentiation of osteoclasts. *Cell Metabolism*, **2008**, 8, 257-65	24.6	222
187	Stimulus-specific modulation of the cation channel TRPV4 by PACSIN 3. *Journal of Biological Chemistry*, **2008**, 283, 6272-80	5.4	94
186	TRPP2 and TRPV4 form a polymodal sensory channel complex. *Journal of Cell Biology*, **2008**, 182, 437-47	7.3	313

185	Transient receptor potential channels in sensory neurons are targets of the antimycotic agent clotrimazole. *Journal of Neuroscience*, **2008**, 28, 576-86	6.6	96
184	Role of cytochrome P450-dependent transient receptor potential V4 activation in flow-induced vasodilatation. *Cardiovascular Research*, **2008**, 80, 445-52	9.9	141
183	The taste transduction channel TRPM5 is a locus for bitter-sweet taste interactions. *FASEB Journal*, **2008**, 22, 1343-55	0.9	69
182	Vanilloid transient receptor potential cation channels: an overview. *Current Pharmaceutical Design*, **2008**, 14, 18-31	3.3	163
181	Herbal compounds and toxins modulating TRP channels. *Current Neuropharmacology*, **2008**, 6, 79-96	7.6	133
180	Diversity of TRP Channel Activation. *Novartis Foundation Symposium*, **2008**, 140-154		32
179	TRP channels and mechanosensory transduction: insights into the arterial myogenic response. *Pflugers Archiv European Journal of Physiology*, **2008**, 456, 529-40	4.6	82
178	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
177	On the origin of bladder sensing: Tr(i)ps in urology. *Neurourology and Urodynamics*, **2008**, 27, 264-73	2.3	99
176	Parallel selection on TRPV6 in human populations. *PLoS ONE*, **2008**, 3, e1686	3.7	34
175	Mechanisms of Thermosensation in TRP Channels. *Springer Series in Biophysics*, **2008**, 101-120		4
174	TRPP2 and TRPV4 form a polymodal sensory channel complex. *Journal of General Physiology*, **2008**, 132, i2-i2	3.4	2
173	Transient receptor potential cation channels in disease. *Physiological Reviews*, **2007**, 87, 165-217	47.9	1100
172	TRPV1 is involved in stretch-evoked contractile changes in the rat autonomous bladder model: a study with piperine, a new TRPV1 agonist. *Neurourology and Urodynamics*, **2007**, 26, 440-50; discussion 451-3	2.3	31
171	Modulation of TRPs by PIPs. *Journal of Physiology*, **2007**, 582, 939-44	3.9	73
170	TRPM8 voltage sensor mutants reveal a mechanism for integrating thermal and chemical stimuli. *Nature Chemical Biology*, **2007**, 3, 174-82	11.7	218
169	Increased IgE-dependent mast cell activation and anaphylactic responses in mice lacking the calcium-activated nonselective cation channel TRPM4. *Nature Immunology*, **2007**, 8, 312-20	19.1	212
168	Molecular determinants of permeation through the cation channel TRPM6. *Cell Calcium*, **2007**, 41, 513-23	4	55

167	Regulation of transient receptor potential (TRP) channels by phosphoinositides. *Pflugers Archiv European Journal of Physiology*, **2007**, 455, 157-68	4.6	95
166	Bimodal action of menthol on the transient receptor potential channel TRPA1. *Journal of Neuroscience*, **2007**, 27, 9874-84	6.6	375
165	TRPM8-independent menthol-induced Ca2+ release from endoplasmic reticulum and Golgi. *Journal of Biological Chemistry*, **2007**, 282, 3325-36	5.4	97
164	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
163	TRP channels in disease. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2007**, 1772, 805-12	6.9	222
162	Transient receptor potential channels in mechanosensing and cell volume regulation. *Methods in Enzymology*, **2007**, 428, 183-207	1.7	106
161	Deletion of the transient receptor potential cation channel TRPV4 impairs murine bladder voiding. *Journal of Clinical Investigation*, **2007**, 117, 3453-62	15.9	250
160	TRP Channels **2007**, 399-423		0
159	Transient receptor potential (TRP) cation channels: rewarding unique proteins. *Bulletin Et Mémoires De L'Académie Royale De Médecine De Belgique*, **2007**, 162, 244-53		32
158	T-type calcium channels: the never ending story. *Cell Calcium*, **2006**, 40, 81-8	4	46
157	Biophysics and structure-function relationship of T-type Ca2+ channels. *Cell Calcium*, **2006**, 40, 97-114	4	92
156	Stimulation by caveolin-1 of the hypotonicity-induced release of taurine and ATP at basolateral, but not apical, membrane of Caco-2 cells. *American Journal of Physiology - Cell Physiology*, **2006**, 290, C1287-96	5.4	26
155	PACSINs bind to the TRPV4 cation channel. PACSIN 3 modulates the subcellular localization of TRPV4. *Journal of Biological Chemistry*, **2006**, 281, 18753-62	5.4	141
154	Permeation and selectivity of TRP channels. *Annual Review of Physiology*, **2006**, 68, 685-717	23.1	442
153	The Ca2+-activated cation channel TRPM4 is regulated by phosphatidylinositol 4,5-biphosphate. *EMBO Journal*, **2006**, 25, 467-78	13	235
152	Calbindin-D28K dynamically controls TRPV5-mediated Ca2+ transport. *EMBO Journal*, **2006**, 25, 2978-88	13	101
151	From cardiac cation channels to the molecular dissection of the transient receptor potential channel TRPM4. *Pflugers Archiv European Journal of Physiology*, **2006**, 453, 313-21	4.6	37
150	Evidence for common structural determinants of activation and inactivation in T-type Ca2+ channels. *Pflugers Archiv European Journal of Physiology*, **2006**, 453, 189-201	4.6	19

149	Calcium absorption across epithelia. *Physiological Reviews*, **2005**, 85, 373-422	47.9	645
148	Chronic exposure to EGF affects trafficking and function of ENaC channel in cystic fibrosis cells. *Biochemical and Biophysical Research Communications*, **2005**, 331, 503-11	3.4	12
147	Interaction of the protein phosphatase 2A with the regulatory domain of the cystic fibrosis transmembrane conductance regulator channel. *FEBS Letters*, **2005**, 579, 3392-6	3.8	16
146	Gating of TRP channels: a voltage connection?. *Journal of Physiology*, **2005**, 567, 35-44	3.9	214
145	TRP channels in disease. *Science Signaling*, **2005**, 2005, re8	8.8	93
144	Sensing with TRP channels. *Nature Chemical Biology*, **2005**, 1, 85-92	11.7	287
143	TRP channels: novel gating properties and physiological functions. *Journal of Physiology*, **2005**, 567, 33-34	3.9	16
142	Heat activation of TRPM5 underlies thermal sensitivity of sweet taste. *Nature*, **2005**, 438, 1022-5	50.4	357
141	Comparison of functional properties of the Ca2+-activated cation channels TRPM4 and TRPM5 from mice. *Cell Calcium*, **2005**, 37, 267-78	4	189
140	TRP channels: an overview. *Cell Calcium*, **2005**, 38, 233-52	4	600
139	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
138	Regulation of the Ca2+ sensitivity of the nonselective cation channel TRPM4. *Journal of Biological Chemistry*, **2005**, 280, 6423-33	5.4	204
137	The selectivity filter of the cation channel TRPM4. *Journal of Biological Chemistry*, **2005**, 280, 22899-906	5.4	107
136	Inhibition of endothelium-dependent vasorelaxation by extracellular K(+): a novel controlling signal for vascular contractility. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 286, H329-39	5.2	15
135	TRPV4 calcium entry channel: a paradigm for gating diversity. *American Journal of Physiology - Cell Physiology*, **2004**, 286, C195-205	5.4	350
134	Mechanism of arachidonic acid modulation of the T-type Ca2+ channel alpha1G. *Journal of General Physiology*, **2004**, 124, 225-38	3.4	50
133	Outer pore architecture of a Ca2+-selective TRP channel. *Journal of Biological Chemistry*, **2004**, 279, 15223-30	5.4	99
132	TRPM6 forms the Mg2+ influx channel involved in intestinal and renal Mg2+ absorption. *Journal of Biological Chemistry*, **2004**, 279, 19-25	5.4	451

131	Regulation of the mouse epithelial Ca2(+) channel TRPV6 by the Ca(2+)-sensor calmodulin. *Journal of Biological Chemistry*, **2004**, 279, 28855-61	5.4	114
130	80K-H as a new Ca2+ sensor regulating the activity of the epithelial Ca2+ channel transient receptor potential cation channel V5 (TRPV5). *Journal of Biological Chemistry*, **2004**, 279, 26351-7	5.4	58
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