

# Bernd Nilius

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/10484913/bernd-nilius-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Transient receptor potential cation channels in disease. <i>Physiological Reviews</i> , <b>2007</b> , 87, 165-217	47.9	1100
309	Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels. <i>Nature</i> , <b>2003</b> , 424, 434-8	50.4	795
308	The principle of temperature-dependent gating in cold- and heat-sensitive TRP channels. <i>Nature</i> , <b>2004</b> , 430, 748-54	50.4	788
307	Ion channels and their functional role in vascular endothelium. <i>Physiological Reviews</i> , <b>2001</b> , 81, 1415-59	47.9	716
306	Calcium absorption across epithelia. <i>Physiological Reviews</i> , <b>2005</b> , 85, 373-422	47.9	645
305	TRP channels: an overview. <i>Cell Calcium</i> , <b>2005</b> , 38, 233-52	4	600
304	The transient receptor potential family of ion channels. <i>Genome Biology</i> , <b>2011</b> , 12, 218	18.3	531
303	Heat-evoked activation of TRPV4 channels in a HEK293 cell expression system and in native mouse aorta endothelial cells. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 47044-51	5.4	501
302	Lack of an endothelial store-operated Ca <sup>2+</sup> current impairs agonist-dependent vasorelaxation in TRP4 <sup>-/-</sup> mice. <i>Nature Cell Biology</i> , <b>2001</b> , 3, 121-7	23.4	492
301	Activation of TRPV4 channels (hVRL-2/mTRP12) by phorbol derivatives. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 13569-77	5.4	473
300	TRPM6 forms the Mg <sup>2+</sup> influx channel involved in intestinal and renal Mg <sup>2+</sup> absorption. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 19-25	5.4	451
299	TRPA1 acts as a cold sensor in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1273-8	11.5	442
298	Permeation and selectivity of TRP channels. <i>Annual Review of Physiology</i> , <b>2006</b> , 68, 685-717	23.1	442
297	Bimodal action of menthol on the transient receptor potential channel TRPA1. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 9874-84	6.6	375
296	Heat activation of TRPM5 underlies thermal sensitivity of sweet taste. <i>Nature</i> , <b>2005</b> , 438, 1022-5	50.4	357
295	TRPM3 is a nociceptor channel involved in the detection of noxious heat. <i>Neuron</i> , <b>2011</b> , 70, 482-94	13.9	352
294	TRPV4 calcium entry channel: a paradigm for gating diversity. <i>American Journal of Physiology - Cell Physiology</i> , <b>2004</b> , 286, C195-205	5.4	350

293	Pharmacology of vanilloid transient receptor potential cation channels. <i>Molecular Pharmacology</i> , <b>2009</b> , 75, 1262-79	4.3	322
292	Transient receptor potential channels as drug targets: from the science of basic research to the art of medicine. <i>Pharmacological Reviews</i> , <b>2014</b> , 66, 676-814	22.5	320
291	TRPP2 and TRPV4 form a polymodal sensory channel complex. <i>Journal of Cell Biology</i> , <b>2008</b> , 182, 437-477.3		313
290	Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 19084-9	11.5	298
289	Gain-of-function mutations in TRPV4 cause autosomal dominant brachyolmia. <i>Nature Genetics</i> , <b>2008</b> , 40, 999-1003	36.3	295
288	Sensing with TRP channels. <i>Nature Chemical Biology</i> , <b>2005</b> , 1, 85-92	11.7	287
287	The role of transient receptor potential cation channels in Ca <sup>2+</sup> signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2010</b> , 2, a003962	10.2	284
286	Properties of volume-regulated anion channels in mammalian cells. <i>Progress in Biophysics and Molecular Biology</i> , <b>1997</b> , 68, 69-119	4.7	280
285	Voltage dependence of the Ca <sup>2+</sup> -activated cation channel TRPM4. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 30813-20	5.4	255
284	Permeation and gating properties of the novel epithelial Ca(2+) channel. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 3963-9	5.4	255
283	The transient receptor potential channel TRPA1: from gene to pathophysiology. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2012</b> , 464, 425-58	4.6	252
282	Deletion of the transient receptor potential cation channel TRPV4 impairs murine bladder voiding. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 3453-62	15.9	250
281	The vanilloid transient receptor potential channel TRPV4: from structure to disease. <i>Progress in Biophysics and Molecular Biology</i> , <b>2010</b> , 103, 2-17	4.7	249
280	Ion channels in vascular endothelium. <i>Annual Review of Physiology</i> , <b>1997</b> , 59, 145-70	23.1	249
279	The Ca <sup>2+</sup> -activated cation channel TRPM4 is regulated by phosphatidylinositol 4,5-biphosphate. <i>EMBO Journal</i> , <b>2006</b> , 25, 467-78	13	235
278	Peripheral thermosensation in mammals. <i>Nature Reviews Neuroscience</i> , <b>2014</b> , 15, 573-89	13.5	230
277	Functional expression of the epithelial Ca(2+) channels (TRPV5 and TRPV6) requires association of the S100A10-annexin 2 complex. <i>EMBO Journal</i> , <b>2003</b> , 22, 1478-87	13	226
276	TRPs in our senses. <i>Current Biology</i> , <b>2008</b> , 18, R880-9	6.3	223

275	Molecular determinants of permeation through the cation channel TRPV4. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 33704-10	5.4	223
274	TRPV4-mediated calcium influx regulates terminal differentiation of osteoclasts. <i>Cell Metabolism</i> , <b>2008</b> , 8, 257-65	24.6	222
273	TRP channels in disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2007</b> , 1772, 805-12	6.9	222
272	Oxaliplatin elicits mechanical and cold allodynia in rodents via TRPA1 receptor stimulation. <i>Pain</i> , <b>2011</b> , 152, 1621-1631	8	220
271	TRPM8 voltage sensor mutants reveal a mechanism for integrating thermal and chemical stimuli. <i>Nature Chemical Biology</i> , <b>2007</b> , 3, 174-82	11.7	218
270	Gating of TRP channels: a voltage connection?. <i>Journal of Physiology</i> , <b>2005</b> , 567, 35-44	3.9	214
269	Increased IgE-dependent mast cell activation and anaphylactic responses in mice lacking the calcium-activated nonselective cation channel TRPM4. <i>Nature Immunology</i> , <b>2007</b> , 8, 312-20	19.1	212
268	TRPV4: Molecular Conductor of a Diverse Orchestra. <i>Physiological Reviews</i> , <b>2016</b> , 96, 911-73	47.9	206
267	Regulation of the Ca <sup>2+</sup> sensitivity of the nonselective cation channel TRPM4. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 6423-33	5.4	204
266	The puzzle of TRPV4 channelopathies. <i>EMBO Reports</i> , <b>2013</b> , 14, 152-63	6.5	203
265	Molecular mechanism of active Ca <sup>2+</sup> reabsorption in the distal nephron. <i>Annual Review of Physiology</i> , <b>2002</b> , 64, 529-49	23.1	203
264	CaT1 and the calcium release-activated calcium channel manifest distinct pore properties. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 47767-70	5.4	193
263	Comparison of functional properties of the Ca <sup>2+</sup> -activated cation channels TRPM4 and TRPM5 from mice. <i>Cell Calcium</i> , <b>2005</b> , 37, 267-78	4	189
262	Nicotine activates the chemosensory cation channel TRPA1. <i>Nature Neuroscience</i> , <b>2009</b> , 12, 1293-9	25.5	186
261	The epithelial calcium channels, TRPV5 & TRPV6: from identification towards regulation. <i>Cell Calcium</i> , <b>2003</b> , 33, 497-507	4	171
260	The capsaicin receptor TRPV1 is a crucial mediator of the noxious effects of mustard oil. <i>Current Biology</i> , <b>2011</b> , 21, 316-21	6.3	167
259	TRP channels: a TR(I)P through a world of multifunctional cation channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2005</b> , 451, 1-10	4.6	165
258	De novo expression of Trpm4 initiates secondary hemorrhage in spinal cord injury. <i>Nature Medicine</i> , <b>2009</b> , 15, 185-91	50.5	163

257	Vanilloid transient receptor potential cation channels: an overview. <i>Current Pharmaceutical Design</i> , <b>2008</b> , 14, 18-31	3.3	163
256	Activation of the cold-sensing TRPM8 channel triggers UCP1-dependent thermogenesis and prevents obesity. <i>Journal of Molecular Cell Biology</i> , <b>2012</b> , 4, 88-96	6.3	160
255	Transient receptor potential channels in endothelium: solving the calcium entry puzzle?. <i>Endothelium: Journal of Endothelial Cell Research</i> , <b>2003</b> , 10, 5-15		159
254	TRPA1 and TRPV4 mediate paclitaxel-induced peripheral neuropathy in mice via a glutathione-sensitive mechanism. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2012</b> , 463, 561-9	4.6	152
253	Loss of high-frequency glucose-induced Ca <sup>2+</sup> oscillations in pancreatic islets correlates with impaired glucose tolerance in Trpm5 <sup>-/-</sup> mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 5208-13	11.5	150
252	Mutations in the gene encoding the calcium-permeable ion channel TRPV4 produce spondylometaphyseal dysplasia, Kozłowski type and metatropic dysplasia. <i>American Journal of Human Genetics</i> , <b>2009</b> , 84, 307-15	11	148
251	Properties of heterologously expressed hTRP3 channels in bovine pulmonary artery endothelial cells. <i>Journal of Physiology</i> , <b>1999</b> , 518 Pt 2, 345-58	3.9	147
250	Volume-activated Cl <sup>-</sup> channels. <i>General Pharmacology</i> , <b>1996</b> , 27, 1131-40		147
249	Role of cytochrome P450-dependent transient receptor potential V4 activation in flow-induced vasodilatation. <i>Cardiovascular Research</i> , <b>2008</b> , 80, 445-52	9.9	141
248	PACSINs bind to the TRPV4 cation channel. PACSIN 3 modulates the subcellular localization of TRPV4. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 18753-62	5.4	141
247	Differential expression of volume-regulated anion channels during cell cycle progression of human cervical cancer cells. <i>Journal of Physiology</i> , <b>2000</b> , 529 Pt 2, 385-94	3.9	141
246	The single pore residue Asp542 determines Ca <sup>2+</sup> permeation and Mg <sup>2+</sup> block of the epithelial Ca <sup>2+</sup> channel. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 1020-5	5.4	139
245	Whole-cell and single channel monovalent cation currents through the novel rabbit epithelial Ca <sup>2+</sup> channel ECaC. <i>Journal of Physiology</i> , <b>2000</b> , 527 Pt 2, 239-48	3.9	134
244	Herbal compounds and toxins modulating TRP channels. <i>Current Neuropharmacology</i> , <b>2008</b> , 6, 79-96	7.6	133
243	Transient receptor potential channels meet phosphoinositides. <i>EMBO Journal</i> , <b>2008</b> , 27, 2809-16	13	131
242	Neuronal TRP channels: thermometers, pathfinders and life-savers. <i>Trends in Neurosciences</i> , <b>2008</b> , 31, 287-95	13.3	131
241	DCPIB is a novel selective blocker of I(Cl,swell) and prevents swelling-induced shortening of guinea-pig atrial action potential duration. <i>British Journal of Pharmacology</i> , <b>2001</b> , 134, 1467-79	8.6	129
240	Regulation of a swelling-activated chloride current in bovine endothelium by protein tyrosine phosphorylation and G proteins. <i>Journal of Physiology</i> , <b>1998</b> , 506 ( Pt 2), 341-52	3.9	126

239	Mg <sup>2+</sup> -dependent gating and strong inward rectification of the cation channel TRPV6. <i>Journal of General Physiology</i> , <b>2003</b> , 121, 245-60	3.4	124
238	The Headache treeNvia umbellulone and TRPA1 activates the trigeminovascular system. <i>Brain</i> , <b>2012</b> , 135, 376-90	11.2	119
237	Sensing pressure with ion channels. <i>Trends in Neurosciences</i> , <b>2012</b> , 35, 477-86	13.3	118
236	Functional characterization of transient receptor potential channels in mouse urothelial cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2010</b> , 298, F692-701	4.3	117
235	Transient receptor potential channelopathies. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2010</b> , 460, 437-50	4.6	117
234	The TRPV4 channel: structure-function relationship and promiscuous gating behaviour. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2003</b> , 446, 298-303	4.6	115
233	Regulation of the mouse epithelial Ca <sup>2+</sup> (+) channel TRPV6 by the Ca <sup>2+</sup> -sensor calmodulin. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 28855-61	5.4	114
232	TRPV1 activation improves exercise endurance and energy metabolism through PGC-1 $\alpha$ upregulation in mice. <i>Cell Research</i> , <b>2012</b> , 22, 551-64	24.7	113
231	Differential activation of the volume-sensitive cation channel TRP12 (OTRPC4) and volume-regulated anion currents in HEK-293 cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2001</b> , 443, 227-33	4.6	111
230	Role of Rho and Rho kinase in the activation of volume-regulated anion channels in bovine endothelial cells. <i>Journal of Physiology</i> , <b>1999</b> , 516 ( Pt 1), 67-74	3.9	111
229	Intracellular nucleotides and polyamines inhibit the Ca <sup>2+</sup> -activated cation channel TRPM4b. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2004</b> , 448, 70-5	4.6	109
228	Modulation of TRPV4 gating by intra- and extracellular Ca <sup>2+</sup> . <i>Cell Calcium</i> , <b>2003</b> , 33, 489-95	4	108
227	The selectivity filter of the cation channel TRPM4. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 22899-906	5.4	107
226	Transient receptor potential channels in mechanosensing and cell volume regulation. <i>Methods in Enzymology</i> , <b>2007</b> , 428, 183-207	1.7	106
225	Increased catecholamine secretion contributes to hypertension in TRPM4-deficient mice. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 3267-79	15.9	106
224	Spices: the savory and beneficial science of pungency. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , <b>2013</b> , 164, 1-76	2.9	104
223	Biophysics and Physiology of the Volume-Regulated Anion Channel (VRAC)/Volume-Sensitive Outwardly Rectifying Anion Channel (VSOR). <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 371-83	4.6	103
222	Irritating channels: the case of TRPA1. <i>Journal of Physiology</i> , <b>2011</b> , 589, 1543-9	3.9	101

221	Modulation of the transient receptor potential channel TRPA1 by phosphatidylinositol 4,5-biphosphate manipulators. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2008</b> , 457, 77-89	4.6	101
220	Calbindin-D28K dynamically controls TRPV5-mediated Ca <sup>2+</sup> transport. <i>EMBO Journal</i> , <b>2006</b> , 25, 2978-88	13	101
219	Blockers of volume-activated Cl <sup>-</sup> currents inhibit endothelial cell proliferation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1995</b> , 431, 132-4	4.6	101
218	On the origin of bladder sensing: Tr(i)ps in urology. <i>Neurourology and Urodynamics</i> , <b>2008</b> , 27, 264-73	2.3	99
217	Determinants of 4 alpha-phorbol sensitivity in transmembrane domains 3 and 4 of the cation channel TRPV4. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 12796-803	5.4	99
216	Outer pore architecture of a Ca <sup>2+</sup> -selective TRP channel. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 15223-30	3.4	99
215	Agonist-induced changes in Ca(2+) permeation through the nociceptor cation channel TRPA1. <i>Biophysical Journal</i> , <b>2010</b> , 98, 773-83	2.9	98
214	TRP channels. <i>Comprehensive Physiology</i> , <b>2012</b> , 2, 563-608	7.7	97
213	TRPM8-independent menthol-induced Ca <sup>2+</sup> release from endoplasmic reticulum and Golgi. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 3325-36	5.4	97
212	Mibefradil (Ro 40-5967) blocks multiple types of voltage-gated calcium channels in cultured rat spinal motoneurons. <i>Cell Calcium</i> , <b>1997</b> , 22, 299-311	4	96
211	Transient receptor potential channels in sensory neurons are targets of the antimycotic agent clotrimazole. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 576-86	6.6	96
210	Mammalian Transient Receptor Potential TRPA1 Channels: From Structure to Disease. <i>Physiological Reviews</i> , <b>2020</b> , 100, 725-803	47.9	96
209	Activation of volume-regulated chloride currents by reduction of intracellular ionic strength in bovine endothelial cells. <i>Journal of Physiology</i> , <b>1998</b> , 506 ( Pt 2), 353-61	3.9	95
208	Regulation of transient receptor potential (TRP) channels by phosphoinositides. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2007</b> , 455, 157-68	4.6	95
207	Inhibition by mibefradil, a novel calcium channel antagonist, of Ca(2+)- and volume-activated Cl <sup>-</sup> channels in macrovascular endothelial cells. <i>British Journal of Pharmacology</i> , <b>1997</b> , 121, 547-55	8.6	94
206	Stimulus-specific modulation of the cation channel TRPV4 by PACSIN 3. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 6272-80	5.4	94
205	TRP channels in disease. <i>Science Signaling</i> , <b>2005</b> , 2005, re8	8.8	93
204	HGF/SF and menthol increase human glioblastoma cell calcium and migration. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 372, 210-5	3.4	92



203	Biophysics and structure-function relationship of T-type Ca <sup>2+</sup> channels. <i>Cell Calcium</i> , <b>2006</b> , 40, 97-114	4	92
202	TRPV channels and modulation by hepatocyte growth factor/scatter factor in human hepatoblastoma (HepG2) cells. <i>Cell Calcium</i> , <b>2004</b> , 36, 19-28	4	92
201	TRPV3: time to decipher a poorly understood family member!. <i>Journal of Physiology</i> , <b>2014</b> , 592, 295-304	3.9	89
200	Pharmacological modulation of monovalent cation currents through the epithelial Ca <sup>2+</sup> channel ECaC1. <i>British Journal of Pharmacology</i> , <b>2001</b> , 134, 453-62	8.6	87
199	Decavanadate modulates gating of TRPM4 cation channels. <i>Journal of Physiology</i> , <b>2004</b> , 560, 753-65	3.9	86
198	TRP channels and mechanosensory transduction: insights into the arterial myogenic response. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2008</b> , 456, 529-40	4.6	82
197	TRPM4 regulates migration of mast cells in mice. <i>Cell Calcium</i> , <b>2009</b> , 45, 226-32	4	81
196	Molecular functions of anoctamin 6 (TMEM16F): a chloride channel, cation channel, or phospholipid scramblase?. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 407-14	4.6	80
195	Fast and slow inactivation kinetics of the Ca <sup>2+</sup> channels ECaC1 and ECaC2 (TRPV5 and TRPV6). Role of the intracellular loop located between transmembrane segments 2 and 3. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 30852-8	5.4	80
194	Epithelial calcium channels: from identification to function and regulation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2003</b> , 446, 304-8	4.6	79
193	Volume-activated Cl <sup>-</sup> currents in different mammalian non-excitabile cell types. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1994</b> , 428, 364-71	4.6	79
192	Store depletion triggers the calcium release-activated calcium current (ICRAC) in macrovascular endothelial cells: a comparison with Jurkat and embryonic kidney cell lines. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1998</b> , 436, 69-74	4.6	78
191	Cellular function and control of volume-regulated anion channels. <i>Cell Biochemistry and Biophysics</i> , <b>2001</b> , 35, 263-74	3.2	77
190	Expression of human pICln and ClC-6 in <i>Xenopus</i> oocytes induces an identical endogenous chloride conductance. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 3615-21	5.4	76
189	Thapsigargin discharges intracellular calcium stores and induces transmembrane currents in human endothelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1993</b> , 422, 552-7	4.6	75
188	Caveolin-1 modulates the activity of the volume-regulated chloride channel. <i>Journal of Physiology</i> , <b>1999</b> , 520 Pt 1, 113-9	3.9	74
187	Modulation of TRPs by PIPs. <i>Journal of Physiology</i> , <b>2007</b> , 582, 939-44	3.9	73
186	Pore properties and ionic block of the rabbit epithelial calcium channel expressed in HEK 293 cells. <i>Journal of Physiology</i> , <b>2001</b> , 530, 183-91	3.9	72



185	Where is TRPV1 expressed in the bladder, do we see the real channel?. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2009</b> , 379, 421-5	3.4	71
184	Dominant TRPV4 mutations in nonlethal and lethal metatropic dysplasia. <i>American Journal of Medical Genetics, Part A</i> , <b>2010</b> , 152A, 1169-77	2.5	71
183	Shear stress induced membrane currents and calcium transients in human vascular endothelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1992</b> , 421, 394-6	4.6	70
182	The taste transduction channel TRPM5 is a locus for bitter-sweet taste interactions. <i>FASEB Journal</i> , <b>2008</b> , 22, 1343-55	0.9	69
181	Depletion of intracellular Ca <sup>2+</sup> stores stimulates the translocation of vanilloid transient receptor potential 4-c1 heteromeric channels to the plasma membrane. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2010</b> , 30, 2249-55	9.4	66
180	Mechanisms of transient receptor potential vanilloid 1 activation and sensitization by allyl isothiocyanate. <i>Molecular Pharmacology</i> , <b>2013</b> , 84, 325-34	4.3	65
179	Opening of an alternative ion permeation pathway in a nociceptor TRP channel. <i>Nature Chemical Biology</i> , <b>2014</b> , 10, 188-95	11.7	64
178	The annexin II-p11 complex is involved in regulated exocytosis in bovine pulmonary artery endothelial cells. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 19679-84	5.4	63
177	Annexin II modulates volume-activated chloride currents in vascular endothelial cells. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 30631-6	5.4	62
176	Regulation of the murine TRPP3 channel by voltage, pH, and changes in cell volume. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2009</b> , 457, 795-807	4.6	60
175	Modulation of the transient receptor potential vanilloid channel TRPV4 by 4 $\alpha$ -phorbol esters: a structure-activity study. <i>Journal of Medicinal Chemistry</i> , <b>2009</b> , 52, 2933-9	8.3	59
174	Kinetic and pharmacological properties of the calcium-activated chloride-current in macrovascular endothelial cells. <i>Cell Calcium</i> , <b>1997</b> , 22, 53-63	4	59
173	80K-H as a new Ca <sup>2+</sup> sensor regulating the activity of the epithelial Ca <sup>2+</sup> channel transient receptor potential cation channel V5 (TRPV5). <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 26351-7	5.4	58
172	Mechanical stress induces release of ATP from Ehrlich ascites tumor cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1999</b> , 1416, 271-84	3.8	57
171	Sodium current in single myocardial mouse cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1985</b> , 404, 190-6	4.6	57
170	TRPV3: a more than skinny channel. <i>Experimental Dermatology</i> , <b>2013</b> , 22, 447-52	4	56
169	ECaC: the gatekeeper of transepithelial Ca <sup>2+</sup> transport. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2002</b> , 1600, 6-11	4	56
168	(Patho)physiological implications of the novel epithelial Ca <sup>2+</sup> channels TRPV5 and TRPV6. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2003</b> , 446, 401-9	4.6	56

167	Aspartate residues of the Glu-Glu-Asp-Asp (EEDD) pore locus control selectivity and permeation of the T-type Ca <sup>2+</sup> channel alpha1G. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 45628-35	5.4	56
166	Inhibition of volume-regulated anion channels by dominant-negative caveolin-1. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 284, 461-5	3.4	56
165	Use of a bicistronic GFP-expression vector to characterise ion channels after transfection in mammalian cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1997</b> , 434, 632-8	4.6	55
164	Molecular determinants of permeation through the cation channel TRPM6. <i>Cell Calcium</i> , <b>2007</b> , 41, 513-23	4.6	55
163	Histamine-activated, non-selective cation currents and Ca <sup>2+</sup> transients in endothelial cells from human umbilical vein. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1993</b> , 424, 285-93	4.6	55
162	Increased $\beta$ -adrenergic inotropy in ventricular myocardium from Trpm4 <sup>-/-</sup> mice. <i>Circulation Research</i> , <b>2014</b> , 114, 283-94	15.7	54
161	RhoA exerts a permissive effect on volume-regulated anion channels in vascular endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2002</b> , 283, C115-25	5.4	54
160	A natural dominant negative P2X1 receptor due to deletion of a single amino acid residue. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 22611-4	5.4	54
159	Bimodal effects of cinnamaldehyde and camphor on mouse TRPA1. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2013</b> , 465, 853-64	4.6	53
158	Modulation of voltage-dependent properties of a swelling-activated Cl <sup>-</sup> current. <i>Journal of General Physiology</i> , <b>1997</b> , 110, 313-25	3.4	53
157	Evidence for the intracellular location of chloride channel (ClC)-type proteins: co-localization of ClC-6a and ClC-6c with the sarco/endoplasmic-reticulum Ca <sup>2+</sup> pump SERCA2b. <i>Biochemical Journal</i> , <b>1998</b> , 330 ( Pt 2), 1015-21	3.8	51
156	TRPM4 inhibition promotes angiogenesis after ischemic stroke. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 563-76	4.6	50
155	Mechanism of arachidonic acid modulation of the T-type Ca <sup>2+</sup> channel alpha1G. <i>Journal of General Physiology</i> , <b>2004</b> , 124, 225-38	3.4	50
154	The carboxyl terminus of the epithelial Ca(2+) channel ECaC1 is involved in Ca(2+)-dependent inactivation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2003</b> , 445, 584-8	4.6	50
153	The amino side of the C-terminus determines fast inactivation of the T-type calcium channel alpha1G. <i>Journal of Physiology</i> , <b>2001</b> , 530, 35-45	3.9	50
152	Block by fluoxetine of volume-regulated anion channels. <i>British Journal of Pharmacology</i> , <b>1999</b> , 126, 5088-94	4.6	50
151	Permeation properties and modulation of volume-activated Cl(-)-currents in human endothelial cells. <i>British Journal of Pharmacology</i> , <b>1994</b> , 112, 1049-56	8.6	50
150	The Sur1-Trpm4 channel regulates NOS2 transcription in TLR4-activated microglia. <i>Journal of Neuroinflammation</i> , <b>2016</b> , 13, 130	10.1	49

149	Transient receptor potential cation channels in pancreatic $\beta$ cells. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , <b>2011</b> , 161, 87-110	2.9	49
148	T-type calcium channels: the never ending story. <i>Cell Calcium</i> , <b>2006</b> , 40, 81-8	4	46
147	Sulphonic acid derivatives as probes of pore properties of volume-regulated anion channels in endothelial cells. <i>British Journal of Pharmacology</i> , <b>1999</b> , 128, 35-40	8.6	46
146	Ligustilide: a novel TRPA1 modulator. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2011</b> , 462, 841-9	4.6	45
145	Modulation of the epithelial $\text{Ca}^{2+}$ channel ECaC by extracellular pH. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2001</b> , 442, 237-42	4.6	45
144	TRPP2 and TRPV4 form an EGF-activated calcium permeable channel at the apical membrane of renal collecting duct cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e73424	3.7	45
143	Dietary capsaicin prevents nonalcoholic fatty liver disease through transient receptor potential vanilloid 1-mediated peroxisome proliferator-activated receptor $\beta$ activation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2013</b> , 465, 1303-16	4.6	44
142	TRPs in the Brain. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , <b>2012</b> , 163, 27-64	2.9	44
141	Vascular hypoxic preconditioning relies on TRPV4-dependent calcium influx and proper intercellular gap junctions communication. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2012</b> , 32, 2241-9	9.4	42
140	Electrophysiological properties of heteromeric TRPV4-C1 channels. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2011</b> , 1808, 2789-97	3.8	42
139	Cytoskeletal modulation of the response to mechanical stimulation in human vascular endothelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1994</b> , 428, 569-76	4.6	42
138	Chloride channels go cell cycling. <i>Journal of Physiology</i> , <b>2001</b> , 532, 581	3.9	40
137	Inhibition of volume-regulated anion channels by expression of the cystic fibrosis transmembrane conductance regulator. <i>Journal of Physiology</i> , <b>1999</b> , 515 ( Pt 1), 75-85	3.9	40
136	Invertebrate TRP proteins as functional models for mammalian channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2004</b> , 449, 213-26	4.6	39
135	The pore of TRP channels: trivial or neglected?. <i>Cell Calcium</i> , <b>2003</b> , 33, 299-302	4	39
134	Voltage-dependent block of endothelial volume-regulated anion channels by calix[4]arenes. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 275, C646-52	5.4	38
133	From cardiac cation channels to the molecular dissection of the transient receptor potential channel TRPM4. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2006</b> , 453, 313-21	4.6	37
132	Inhibition of angiogenesis by blockers of volume-regulated anion channels. <i>General Pharmacology</i> , <b>2000</b> , 34, 107-16		37

131	TRPs: truly remarkable proteins. <i>Handbook of Experimental Pharmacology</i> , <b>2014</b> , 222, 1-12	3.2	37
130	Pore structure influences gating properties of the T-type Ca <sup>2+</sup> channel alpha1G. <i>Journal of General Physiology</i> , <b>2003</b> , 121, 529-40	3.4	36
129	Epithelial Ca(2+) channel (ECAC1) in autosomal dominant idiopathic hypercalciuria. <i>Nephrology Dialysis Transplantation</i> , <b>2002</b> , 17, 1614-20	4.3	36
128	Allyl isothiocyanate sensitizes TRPV1 to heat stimulation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 507-15	4.6	35
127	TRPV1 activation prevents nonalcoholic fatty liver through UCP2 upregulation in mice. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2012</b> , 463, 727-32	4.6	35
126	Umbellulone modulates TRP channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2011</b> , 462, 861-70	4.6	35
125	The ubiquitously expressed pICln protein forms homomeric complexes in vitro. <i>Biochemical and Biophysical Research Communications</i> , <b>1996</b> , 218, 822-7	3.4	35
124	Current and upcoming mitochondrial targets for cancer therapy. <i>Seminars in Cancer Biology</i> , <b>2017</b> , 47, 154-167	12.7	34
123	Calcium signalling through nucleotide receptor P2Y2 in cultured human vascular endothelium. <i>Cell Calcium</i> , <b>1998</b> , 24, 117-27	4	34
122	The volume-activated chloride current in human endothelial cells depends on intracellular ATP. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1994</b> , 427, 184-6	4.6	34
121	Parallel selection on TRPV6 in human populations. <i>PLoS ONE</i> , <b>2008</b> , 3, e1686	3.7	34
120	Inhibition of glucose-induced electrical activity in rat pancreatic beta-cells by DCPIB, a selective inhibitor of volume-sensitive anion currents. <i>European Journal of Pharmacology</i> , <b>2004</b> , 489, 13-9	5.3	33
119	Ca <sup>2+</sup> modulation of volume-regulated anion channels: evidence for colocalization with store-operated channels. <i>FASEB Journal</i> , <b>2002</b> , 16, 222-4	0.9	33
118	Chlorotoxin does not inhibit volume-regulated, calcium-activated and cyclic AMP-activated chloride channels. <i>British Journal of Pharmacology</i> , <b>2000</b> , 129, 791-801	8.6	33
117	Inhibition of volume-activated chloride currents in endothelial cells by chromones. <i>British Journal of Pharmacology</i> , <b>1995</b> , 115, 1393-8	8.6	33
116	The volume-activated chloride current in endothelial cells from bovine pulmonary artery is not modulated by phosphorylation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1996</b> , 431, 540-8	4.6	33
115	Calcium-activated potassium channels in cultured human endothelial cells are not directly modulated by nitric oxide. <i>Cell Calcium</i> , <b>1997</b> , 21, 291-300	4	32
114	Diversity of TRP Channel Activation. <i>Novartis Foundation Symposium</i> , <b>2008</b> , 140-154		32

113	The endothelial volume-regulated anion channel, VRAC. <i>Cellular Physiology and Biochemistry</i> , <b>2000</b> , 10, 313-20	3.9	32
112	Transient receptor potential (TRP) cation channels: rewarding unique proteins. <i>Bulletin Et Mémoires De L'Académie Royale De Médecine De Belgique</i> , <b>2007</b> , 162, 244-53		32
111	Transient receptor potential vanilloid 1 activation by dietary capsaicin promotes urinary sodium excretion by inhibiting epithelial sodium channel $\beta$ unit-mediated sodium reabsorption. <i>Hypertension</i> , <b>2014</b> , 64, 397-404	8.5	31
110	Characterization of mutations located in exon 18 of the CFTR gene. <i>FEBS Letters</i> , <b>1998</b> , 437, 1-4	3.8	31
109	TRPV1 is involved in stretch-evoked contractile changes in the rat autonomous bladder model: a study with piperine, a new TRPV1 agonist. <i>Neurourology and Urodynamics</i> , <b>2007</b> , 26, 440-50; discussion 451-3	2.3	31
108	The C-terminal part of the R-domain, but not the PDZ binding motif, of CFTR is involved in interaction with Ca(2+)-activated Cl- channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2001</b> , 442, 280-5	4.6	31
107	Myosin light chain phosphorylation-dependent modulation of volume-regulated anion channels in macrovascular endothelium. <i>FEBS Letters</i> , <b>2000</b> , 466, 346-50	3.8	31
106	Diversity of TRP channel activation. <i>Novartis Foundation Symposium</i> , <b>2004</b> , 258, 140-9; discussion 149-59, 263-6		31
105	Store-operated Ca <sup>2+</sup> entry channels: still elusive!. <i>Science Signaling</i> , <b>2004</b> , 2004, pe36	8.8	30
104	Interaction of SiO <sub>2</sub> nanoparticles with neuronal cells: Ionic mechanisms involved in the perturbation of calcium homeostasis. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2015</b> , 66, 101-11	5.6	28
103	TRPC channels are involved in calcium-dependent migration and proliferation in immortalized GnRH neurons. <i>Cell Calcium</i> , <b>2011</b> , 49, 387-94	4	28
102	TRP channels in human prostate. <i>Scientific World Journal, The</i> , <b>2010</b> , 10, 1597-611	2.2	28
101	Inhibition of capacitative Ca <sup>2+</sup> entry by a Cl- channel blocker in human endothelial cells. <i>European Journal of Pharmacology</i> , <b>1994</b> , 269, 381-4		28
100	Inhibition of volume-regulated anion channels in cultured endothelial cells by the anti-oestrogens clomiphene and nafoxidine. <i>British Journal of Pharmacology</i> , <b>2001</b> , 132, 135-42	8.6	27
99	Tasty and healthy TR(i)Ps. The human quest for culinary pungency. <i>EMBO Reports</i> , <b>2011</b> , 12, 1094-101	6.5	26
98	Multiple types of chloride channels in bovine pulmonary artery endothelial cells. <i>Journal of Vascular Research</i> , <b>1997</b> , 34, 220-8	1.9	26
97	Functional effects of expression of hsl $\alpha$ Ca <sup>2+</sup> activated K <sup>+</sup> channels in cultured macrovascular endothelial cells. <i>Cell Calcium</i> , <b>1997</b> , 22, 497-506	4	26
96	Stimulation by caveolin-1 of the hypotonicity-induced release of taurine and ATP at basolateral, but not apical, membrane of Caco-2 cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2006</b> , 290, C1287-96	5.4	26

95	Hypotonicity and thrombin activate taurine efflux in BC3H1 and C2C12 myoblasts that is down regulated during differentiation. <i>Biochemical and Biophysical Research Communications</i> , <b>1997</b> , 232, 74-9	3.4	25
94	Mouse TRPA1 function and membrane localization are modulated by direct interactions with cholesterol. <i>ELife</i> , <b>2019</b> , 8,	8.9	25
93	TRPV4 Stimulation Releases ATP via Pannexin Channels in Human Pulmonary Fibroblasts. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2018</b> , 59, 87-95	5.7	24
92	Differential effects of bitter compounds on the taste transduction channels TRPM5 and IP3 receptor type 3. <i>Chemical Senses</i> , <b>2014</b> , 39, 295-311	4.8	24
91	Fetal akinesia in metatropic dysplasia: The combined phenotype of chondrodysplasia and neuropathy?. <i>American Journal of Medical Genetics, Part A</i> , <b>2011</b> , 155A, 2860-4	2.5	24
90	TRPCs, GPCRs and the Bayliss effect. <i>EMBO Journal</i> , <b>2009</b> , 28, 4-5	13	24
89	Alternative splicing of CLIC-6 (a member of the CIC chloride-channel family) transcripts generates three truncated isoforms one of which, CLIC-6c, is kidney-specific. <i>Biochemical Journal</i> , <b>1997</b> , 325 ( Pt 1), 269-76	3.8	24
88	Extracellular Ca <sup>2+</sup> modulates the effects of protons on gating and conduction properties of the T-type Ca <sup>2+</sup> channel alpha1G (CaV3.1). <i>Journal of General Physiology</i> , <b>2003</b> , 121, 511-28	3.4	24
87	Inhibition of VRAC by c-Src tyrosine kinase targeted to caveolae is mediated by the Src homology domains. <i>American Journal of Physiology - Cell Physiology</i> , <b>2001</b> , 281, C248-56	5.4	24
86	Cereblon in health and disease. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 1299-309	4.6	24
85	TRPM4-dependent post-synaptic depolarization is essential for the induction of NMDA receptor-dependent LTP in CA1 hippocampal neurons. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 593-607	4.6	23
84	Activation of TRPV4 channels reduces migration of immortalized neuroendocrine cells. <i>Journal of Neurochemistry</i> , <b>2011</b> , 116, 606-15	6	23
83	Is the volume-regulated anion channel VRAC a "water-permeable" channel?. <i>Neurochemical Research</i> , <b>2004</b> , 29, 3-8	4.6	23
82	Activation of the volume-sensitive chloride current in vascular endothelial cells requires a permissive intracellular Ca <sup>2+</sup> concentration. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1996</b> , 431, 467-9	4.6	23
81	Hypotonically induced calcium release from intracellular calcium stores. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 4601-4	5.4	23
80	The use of cystometry in small rodents: a study of bladder chemosensation. <i>Journal of Visualized Experiments</i> , <b>2012</b> , e3869	1.6	22
79	A TRP channel-steroid marriage. <i>Nature Cell Biology</i> , <b>2008</b> , 10, 1383-4	23.4	22
78	ATP and nitric oxide modulate a Ca(2+)-activated non-selective cation current in macrovascular endothelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2002</b> , 444, 438-45	4.6	22



77	Potent block of volume-activated chloride currents in endothelial cells by the uncharged form of quinine and quinidine. <i>British Journal of Pharmacology</i> , <b>1996</b> , 118, 1869-71	8.6	22
76	Treatment of hypertension by increasing impaired endothelial TRPV4-KCa2.3 interaction. <i>EMBO Molecular Medicine</i> , <b>2017</b> , 9, 1491-1503	12	21
75	Bimodal effect of alkalization on the polycystin transient receptor potential channel, PKD2L1. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2011</b> , 461, 507-13	4.6	21
74	Cinnamaldehyde inhibits L-type calcium channels in mouse ventricular cardiomyocytes and vascular smooth muscle cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 2089-99	4.6	20
73	Pressing and squeezing with Piezos. <i>EMBO Reports</i> , <b>2010</b> , 11, 902-3	6.5	20
72	Modulation of the cold-activated cation channel TRPM8 by surface charge screening. <i>Journal of Physiology</i> , <b>2010</b> , 588, 315-24	3.9	20
71	Suppressive interactions between mutations located in the two nucleotide binding domains of CFTR. <i>FEBS Letters</i> , <b>2000</b> , 473, 149-53	3.8	20
70	Evidence for common structural determinants of activation and inactivation in T-type Ca <sup>2+</sup> channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2006</b> , 453, 189-201	4.6	19
69	Non-Invasive Multimodality Imaging Directly Shows TRPM4 Inhibition Ameliorates Stroke Reperfusion Injury. <i>Translational Stroke Research</i> , <b>2019</b> , 10, 91-103	7.8	19
68	Echinochrome A regulates phosphorylation of phospholamban Ser16 and Thr17 suppressing cardiac SERCA2A Ca <sup>2+</sup> reuptake. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2015</b> , 467, 2151-63	4.6	18
67	Insulin downregulates the expression of the Ca <sup>2+</sup> -activated nonselective cation channel TRPM5 in pancreatic islets from leptin-deficient mouse models. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 611-21	4.6	17
66	Functional interaction between TRP4 and CFTR in mouse aorta endothelial cells. <i>BMC Physiology</i> , <b>2001</b> , 1, 3	0	17
65	TRPV4 is associated with central rather than nephrogenic osmoregulation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 1595-607	4.6	17
64	The endothelial saga: the past, the present, the future. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2010</b> , 459, 787-92	4.6	16
63	Interaction of the protein phosphatase 2A with the regulatory domain of the cystic fibrosis transmembrane conductance regulator channel. <i>FEBS Letters</i> , <b>2005</b> , 579, 3392-6	3.8	16
62	TRP channels: novel gating properties and physiological functions. <i>Journal of Physiology</i> , <b>2005</b> , 567, 33-34	3.9	16
61	Functional characterization of the CFTR R domain using CFTR/MDR1 hybrid and deletion constructs. <i>Biochemistry</i> , <b>1999</b> , 38, 14988-98	3.2	16
60	Transient receptor potential (TRP) cation channels in diabetes. <i>Current Topics in Medicinal Chemistry</i> , <b>2013</b> , 13, 258-69	3	16



59	Inhibition of endothelium-dependent vasorelaxation by extracellular K(+): a novel controlling signal for vascular contractility. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 286, H329-39	5.2	15
58	Rescue of functional DeltaF508-CFTR channels by co-expression with truncated CFTR constructs in COS-1 cells. <i>FEBS Letters</i> , <b>2003</b> , 554, 173-8	3.8	15
57	Gaseous Signaling Molecules in Cardiovascular Function: From Mechanisms to Clinical Translation. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , <b>2018</b> , 174, 81-156	2.9	14
56	Amazing T-type calcium channels: updating functional properties in health and disease. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 623-6	4.6	14
55	Temperature-dependent calcium-induced calcium release via InsP3 receptors in mouse olfactory ensheathing glial cells. <i>Cell Calcium</i> , <b>2012</b> , 52, 113-23	4	14
54	The angiotensin receptor blocker and PPAR- $\alpha$ agonist, telmisartan, delays inactivation of voltage-gated sodium channel in rat heart: novel mechanism of drug action. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2012</b> , 464, 631-43	4.6	14
53	Pflugers Archiv and the advent of modern electrophysiology. From the first action potential to patch clamp. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2003</b> , 447, 267-71	4.6	14
52	Electrogenic Na <sup>+</sup> /K <sup>+</sup> -transport in human endothelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1993</b> , 424, 301-7	4.6	14
51	Transient receptor potential TRP channels as therapeutic drug targets: next round!. <i>Current Topics in Medicinal Chemistry</i> , <b>2013</b> , 13, 244-6	3	13
50	What do we really know and what do we need to know: some controversies, perspectives, and surprises. <i>Handbook of Experimental Pharmacology</i> , <b>2014</b> , 223, 1239-80	3.2	13
49	TRPM4-specific blocking antibody attenuates reperfusion injury in a rat model of stroke. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2019</b> , 471, 1455-1466	4.6	12
48	Transient receptor potentials (TRPs) and anaphylaxis. <i>Current Allergy and Asthma Reports</i> , <b>2013</b> , 13, 93-100	4.6	12
47	Chronic exposure to EGF affects trafficking and function of ENaC channel in cystic fibrosis cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 331, 503-11	3.4	12
46	Responses of endothelial cells to hypotonic solutions: lack of regulatory volume decrease. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1994</b> , 428, 94-6	4.6	12
45	Cardiac Response to Oxidative Stress Induced by Mitochondrial Dysfunction. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , <b>2016</b> , 170, 101-27	2.9	11
44	Single point mutations of aromatic residues in transmembrane helices 5 and -6 differentially affect TRPV4 activation by 4EPDD and hypotonicity: implications for the role of the pore region in regulating TRPV4 activity. <i>Cell Calcium</i> , <b>2014</b> , 55, 38-47	4	11
43	Gating modulation by heat of the polycystin transient receptor potential channel PKD2L1 (TRPP3). <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 1933-40	4.6	11
42	Amplitude modulation of Ca <sup>2+</sup> signals induced by histamine in human endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1994</b> , 1222, 287-91	4.9	11

41	Effects of cyanide and deoxyglucose on Ca <sup>2+</sup> signalling in macrovascular endothelial cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , <b>2000</b> , 7, 155-68		10
40	Do voltage-gated Kv1.1 and inward rectifier Kir2.1 potassium channels form heteromultimers?. <i>FEBS Letters</i> , <b>1996</b> , 390, 280-4	3.8	10
39	Nonselective ion pathways in human endothelial cells. <i>Exs</i> , <b>1993</b> , 66, 269-80		10
38	The intracellular tyrosine residues of the ATP-gated P2X(1) ion channel are essential for its function. <i>FEBS Letters</i> , <b>2002</b> , 524, 15-9	3.8	9
37	Examination of Single Nucleotide Polymorphisms (SNPs) in Transient Receptor Potential (TRP) Ion Channels in Chronic Fatigue Syndrome Patients. <i>Immunology and Immunogenetics Insights</i> , <b>2015</b> , 7, III.S25147	0.147	8
36	The GXGXG motif in the pI(Cl <sub>in</sub> ) protein is not important for the nucleotide sensitivity of the pI(Cl <sub>in</sub> )-induced Cl <sup>-</sup> current in <i>Xenopus</i> oocytes. <i>FEBS Letters</i> , <b>1998</b> , 426, 171-3	3.8	8
35	Electrophysiological characterization of voltage-dependent calcium currents and TRPV4 currents in human pulmonary fibroblasts. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2016</b> , 310, L603-14	5.8	8
34	TRPV4 participates in pressure-induced inhibition of renin secretion by juxtaglomerular cells. <i>Journal of Physiology</i> , <b>2016</b> , 594, 7327-7340	3.9	7
33	Polycystins under pressure. <i>Cell</i> , <b>2009</b> , 139, 466-7	56.2	7
32	Transient Receptor Potential (TRP) Channels in the Brain: the Good and the Ugly. <i>European Review</i> , <b>2012</b> , 20, 343-355	0.3	7
31	Is there a link between protein pI(Cl <sub>in</sub> ) and volume-regulated anion channels?. <i>Biochemical Journal</i> , <b>1998</b> , 331 ( Pt 1), 347-9	3.8	7
30	Different ligands of the TRPV3 cation channel cause distinct conformational changes as revealed by intrinsic tryptophan fluorescence quenching. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 12964-74	5.4	6
29	Tetrahydrobiopterin enhances mitochondrial biogenesis and cardiac contractility via stimulation of PGC1 $\beta$ signaling. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2019</b> , 1865, 165524	6.9	6
28	Calcium-impermeable monovalent cation channels: a TRP connection?. <i>British Journal of Pharmacology</i> , <b>2003</b> , 138, 5-7	8.6	6
27	Comparison of Anti-oncotic Effect of TRPM4 Blocking Antibody in Neuron, Astrocyte and Vascular Endothelial Cell Under Hypoxia. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 562584	5.7	6
26	Are Brain TRPs Viable Targets for Curing Neurodegenerative Disorders and Improving Mental Health? <b>2015</b> , 419-456		5
25	Simultaneous Measurement of Membrane Capacitance and Whole Cell Currents during Cell Swelling in Macrovascular Endothelium. <i>Cellular Physiology and Biochemistry</i> , <b>1997</b> , 7, 19-24	3.9	5
24	Phosphorylation site independent single R-domain mutations affect CFTR channel activity. <i>FEBS Letters</i> , <b>1998</b> , 439, 121-6	3.8	5

23	Transient receptor potential channel promiscuity frustrates constellation pharmacology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E3338; author reply E338	11.5	4
22	Mechanisms of Thermosensation in TRP Channels. <i>Springer Series in Biophysics</i> , <b>2008</b> , 101-120		4
21	The volume-activated chloride current in endothelial cells from bovine pulmonary artery is not modulated by phosphorylation <b>1996</b> , 431, 540		4
20	Transient Receptor Potential Dysfunctions in Hereditary Diseases <b>2015</b> , 13-33		3
19	BH4 activates CaMKK2 and rescues the cardiomyopathic phenotype in rodent models of diabetes. <i>Life Science Alliance</i> , <b>2020</b> , 3,	5.8	3
18	Development and characterization of a monoclonal antibody blocking human TRPM4 channel. <i>Scientific Reports</i> , <b>2021</b> , 11, 10411	4.9	3
17	Molecular physiology of anion channels: dual function proteins and new structural motifs--a special issue. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 369-70	4.6	2
16	The asparagine 533 residue in the outer pore loop region of the mouse PKD2L1 channel is essential for its voltage-dependent inactivation. <i>FEBS Open Bio</i> , <b>2017</b> , 7, 1392-1401	2.7	2
15	Calcium-activated chloride channels in vascular endothelial cells. <i>Current Topics in Membranes</i> , <b>2002</b> , 53, 327-344	2.2	2
14	Ion Channels in Nonexcitable Cells <b>2001</b> , 485-507		2
13	Effects of trapidil-derivatives on calcium channel currents in isolated ventricular cells from mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>1988</b> , 337, 454-8	3.4	2
12	Author response: Mouse TRPA1 function and membrane localization are modulated by direct interactions with cholesterol <b>2019</b> ,		2
11	TRPP2 and TRPV4 form a polymodal sensory channel complex. <i>Journal of General Physiology</i> , <b>2008</b> , 132, i2-i2	3.4	2
10	Overview: Potassium Channels in Vascular Endothelial Cells <b>2001</b> , 639-650		2
9	Ion Channels in Vascular Endothelium <b>2001</b> , 481-497		1
8	Ion Channels in Nonexcitable Cells <b>1995</b> , 315-329		1
7	TRP Channels <b>2007</b> , 399-423		0
6	Introduction to TRPs: A Quest for Novel Drug Targets. <i>Methods in Pharmacology and Toxicology</i> , <b>2012</b> , 3-12	1.1	

- 5 Bicistronic GFP Expression Vectors as a Tool to Study Ion Channels in Transiently Transfected Cultured Cells **2001**, 167-186
- 4 Lipid and protein interactions at the C-terminal part of TRPM4. *FASEB Journal*, **2009**, 23, 1000.6 0.9
- 3 EGFR augments cell proliferation in polycystic kidney disease through activation of a novel ion channel. *FASEB Journal*, **2009**, 23, 604.6 0.9
- 2 Functional characterization of TMEM16 anion channels. *FASEB Journal*, **2010**, 24, 608.12 0.9
- 1 Ano6 functions as a positive modulator of volume-regulated anion channels. *FASEB Journal*, **2012**, 26, 695.2 0.9