Katharina Zimmermann

List of Publications by Year in Descending Order

36 papers	3,182 citations	24 h-index	37 g-index
37 ext. papers	3,689 ext. citations	9.3 avg, IF	4.48 L-index

#	Paper	IF	Citations
36	Odontoblast TRPC5 channels signal cold pain in teeth. *Science Advances*, **2021**, 7,	14.3	12
35	Thirty Mouse Strain Survey of Voluntary Physical Activity and Energy Expenditure: Influence of Strain, Sex and Day-Night Variation. *Frontiers in Neuroscience*, **2020**, 14, 531	5.1	2
34	A TRP channel trio mediates acute noxious heat sensing. *Nature*, **2018**, 555, 662-666	50.4	203
33	Heat-resistant action potentials require TTX-resistant sodium channels Na1.8 and Na1.9. *Journal of General Physiology*, **2018**, 150, 1125-1144	3.4	10
32	Multiple sodium channel isoforms mediate the pathological effects of Pacific ciguatoxin-1. *Scientific Reports*, **2017**, 7, 42810	4.9	47
31	Brain mechanisms of abnormal temperature perception in cold allodynia induced by ciguatoxin. *Annals of Neurology*, **2017**, 81, 104-116	9.4	6
30	Ciguatoxins Evoke Potent CGRP Release by Activation of Voltage-Gated Sodium Channel Subtypes Na1.9, Na1.7 and Na1.1. *Marine Drugs*, **2017**, 15,	6	11
29	Cold Temperature Encoding by Cutaneous TRPA1 and TRPM8-Carrying Fibers in the Mouse. *Frontiers in Molecular Neuroscience*, **2017**, 10, 209	6.1	28
28	Systemic desensitization through TRPA1 channels by capsazepine and mustard oil - a novel strategy against inflammation and pain. *Scientific Reports*, **2016**, 6, 28621	4.9	57
27	Analgesic Effects of GpTx-1, PF-04856264 and CNV1014802 in a Mouse Model of NaV1.7-Mediated Pain. *Toxins*, **2016**, 8,	4.9	75
26	Crotalphine desensitizes TRPA1 ion channels to alleviate inflammatory hyperalgesia. *Pain*, **2016**, 157, 2504-2516	8	21
25	Comprehensive thermal preference phenotyping in mice using a novel automated circular gradient assay. *Temperature*, **2016**, 3, 77-91	5.2	14
24	Therapeutic opportunities for targeting cold pain pathways. *Biochemical Pharmacology*, **2015**, 93, 125-406		29
23	Agonist-dependent modulation of cell surface expression of the cold receptor TRPM8. *Journal of Neuroscience*, **2015**, 35, 571-82	6.6	19
22	Ciguatera fish poisoning: a first epidemic in Germany highlights an increasing risk for European countries. *Toxicon*, **2014**, 91, 76-83	2.8	52
21	Analgesic treatment of ciguatoxin-induced cold allodynia. *Pain*, **2013**, 154, 1999-2006	8	45
20	An animal model of oxaliplatin-induced cold allodynia reveals a crucial role for Nav1.6 in peripheral pain pathways. *Pain*, **2013**, 154, 1749-1757	8	111

19	Amplified cold transduction in native nociceptors by M-channel inhibition. *Journal of Neuroscience*, **2013**, 33, 16627-41	6.6	33
18	Methylglyoxal activates nociceptors through transient receptor potential channel A1 (TRPA1): a possible mechanism of metabolic neuropathies. *Journal of Biological Chemistry*, **2012**, 287, 28291-306	5.4	139
17	Central projection of pain arising from delayed onset muscle soreness (DOMS) in human subjects. *PLoS ONE*, **2012**, 7, e47230	3.7	12
16	Ciguatoxins activate specific cold pain pathways to elicit burning pain from cooling. *EMBO Journal*, **2012**, 31, 3795-808	13	89
15	Transient receptor potential cation channel, subfamily C, member 5 (TRPC5) is a cold-transducer in the peripheral nervous system. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18114-9	11.5	146
14	TRPA1 and substance P mediate colitis in mice. *Gastroenterology*, **2011**, 141, 1346-58	13.3	152
13	The tetrodotoxin-resistant Na+ channel Na (v)1.8 reduces the potency of local anesthetics in blocking C-fiber nociceptors. *Pflugers Archiv European Journal of Physiology*, **2010**, 459, 751-63	4.6	14
12	Electrophysiological and neurochemical techniques to investigate sensory neurons in analgesia research. *Methods in Molecular Biology*, **2010**, 617, 237-59	1.4	12
11	Voltage-gated sodium channels in pain states: role in pathophysiology and targets for treatment. *Brain Research Reviews*, **2009**, 60, 65-83		111
10	Differential effects of TRPV channel block on polymodal activation of rat cutaneous nociceptors in vitro. *Experimental Brain Research*, **2009**, 196, 31-44	2.3	32
9	The mechano-activated K+ channels TRAAK and TREK-1 control both warm and cold perception. *EMBO Journal*, **2009**, 28, 1308-18	13	270
8	Phenotyping sensory nerve endings in vitro in the mouse. *Nature Protocols*, **2009**, 4, 174-96	18.8	128
7	The influence of simultaneous ratings on cortical BOLD effects during painful and non-painful stimulation. *Pain*, **2008**, 135, 131-41	8	32
6	Nociceptors are interleukin-1beta sensors. *Journal of Neuroscience*, **2008**, 28, 14062-73	6.6	439
5	Sensory neuron sodium channel Nav1.8 is essential for pain at low temperatures. *Nature*, **2007**, 447, 855-8	30.4	297
4	TREK-1, a K+ channel involved in polymodal pain perception. *EMBO Journal*, **2006**, 25, 2368-76	13	323
3	Improved superfusion technique for rapid cooling or heating of cultured cells under patch-clamp conditions. *Journal of Neuroscience Methods*, **2006**, 151, 178-85	3	68
2	Variable sensitivity to noxious heat is mediated by differential expression of the CGRP gene. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 12938-43	11.5	139

1 Odontoblasts are cold sensory cells in teeth. *Temperature*,1-4 5.2