

# Katharina Zimmermann

## List of Publications by Year in descending order

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36  
papers

3,995  
citations

218381

26  
h-index

344852

36  
g-index

37  
all docs

37  
docs citations

37  
times ranked

4601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nociceptors Are Interleukin-1 $\beta$ Sensors. <i>Journal of Neuroscience</i> , 2008, 28, 14062-14073.	1.7	533
2	TREK-1, a K <sup>+</sup> channel involved in polymodal pain perception. <i>EMBO Journal</i> , 2006, 25, 2368-2376.	3.5	363
3	Sensory neuron sodium channel Nav1.8 is essential for pain at low temperatures. <i>Nature</i> , 2007, 447, 856-859.	13.7	355
4	A TRP channel trio mediates acute noxious heat sensing. <i>Nature</i> , 2018, 555, 662-666.	13.7	329
5	The mechano-activated K <sup>+</sup> channels TRAAK and TREK-1 control both warm and cold perception. <i>EMBO Journal</i> , 2009, 28, 1308-1318.	3.5	309
6	TRPA1 and Substance P Mediate Colitis in Mice. <i>Gastroenterology</i> , 2011, 141, 1346-1358.	0.6	197
7	Transient receptor potential cation channel, subfamily C, member 5 (TRPC5) is a cold-transducer in the peripheral nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18114-18119.	3.3	192
8	Methylglyoxal Activates Nociceptors through Transient Receptor Potential Channel A1 (TRPA1). <i>Journal of Biological Chemistry</i> , 2012, 287, 28291-28306.	1.6	166
9	Phenotyping sensory nerve endings in vitro in the mouse. <i>Nature Protocols</i> , 2009, 4, 174-196.	5.5	152
10	Variable sensitivity to noxious heat is mediated by differential expression of the CGRP gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12938-12943.	3.3	151
11	An animal model of oxaliplatin-induced cold allodynia reveals a crucial role for Nav1.6 in peripheral pain pathways. <i>Pain</i> , 2013, 154, 1749-1757.	2.0	144
12	Voltage-gated sodium channels in pain states: Role in pathophysiology and targets for treatment. <i>Brain Research Reviews</i> , 2009, 60, 65-83.	9.1	130
13	Ciguatoxins activate specific cold pain pathways to elicit burning pain from cooling. <i>EMBO Journal</i> , 2012, 31, 3795-3808.	3.5	103
14	Analgesic Effects of GpTx-1, PF-04856264 and CNV1014802 in a Mouse Model of Nav1.7-Mediated Pain. <i>Toxins</i> , 2016, 8, 78.	1.5	94
15	Improved superfusion technique for rapid cooling or heating of cultured cells under patch-clamp conditions. <i>Journal of Neuroscience Methods</i> , 2006, 151, 178-185.	1.3	79
16	Systemic desensitization through TRPA1 channels by capsaizepine and mustard oil - a novel strategy against inflammation and pain. <i>Scientific Reports</i> , 2016, 6, 28621.	1.6	78
17	Multiple sodium channel isoforms mediate the pathological effects of Pacific ciguatoxin-1. <i>Scientific Reports</i> , 2017, 7, 42810.	1.6	67
18	Ciguatera fish poisoning: A first epidemic in Germany highlights an increasing risk for European countries. <i>Toxicon</i> , 2014, 91, 76-83.	0.8	65

#	ARTICLE	IF	CITATIONS
19	Analgesic treatment of ciguatoxin-induced cold allodynia. <i>Pain</i> , 2013, 154, 1999-2006.	2.0	51
20	Cold Temperature Encoding by Cutaneous TRPA1 and TRPM8-Carrying Fibers in the Mouse. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 209.	1.4	50
21	Differential effects of TRPV channel block on polymodal activation of rat cutaneous nociceptors in vitro. <i>Experimental Brain Research</i> , 2009, 196, 31-44.	0.7	45
22	Odontoblast TRPC5 channels signal cold pain in teeth. <i>Science Advances</i> , 2021, 7, .	4.7	42
23	The influence of simultaneous ratings on cortical BOLD effects during painful and non-painful stimulation. <i>Pain</i> , 2008, 135, 131-141.	2.0	37
24	Amplified Cold Transduction in Native Nociceptors by M-Channel Inhibition. <i>Journal of Neuroscience</i> , 2013, 33, 16627-16641.	1.7	37
25	Therapeutic opportunities for targeting cold pain pathways. <i>Biochemical Pharmacology</i> , 2015, 93, 125-140.	2.0	33
26	Crotalphine desensitizes TRPA1 ion channels to alleviate inflammatory hyperalgesia. <i>Pain</i> , 2016, 157, 2504-2516.	2.0	31
27	Comprehensive thermal preference phenotyping in mice using a novel automated circular gradient assay. <i>Temperature</i> , 2016, 3, 77-91.	1.7	31
28	Agonist-Dependent Modulation of Cell Surface Expression of the Cold Receptor TRPM8. <i>Journal of Neuroscience</i> , 2015, 35, 571-582.	1.7	24
29	Central Projection of Pain Arising from Delayed Onset Muscle Soreness (DOMS) in Human Subjects. <i>PLoS ONE</i> , 2012, 7, e47230.	1.1	18
30	The tetrodotoxin-resistant Na <sup>+</sup> channel Nav1.8 reduces the potency of local anesthetics in blocking C-fiber nociceptors. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 459, 751-763.	1.3	17
31	Heat-resistant action potentials require TTX-resistant sodium channels Nav1.8 and Nav1.9. <i>Journal of General Physiology</i> , 2018, 150, 1125-1144.	0.9	17
32	Ciguatoxins Evoke Potent CGRP Release by Activation of Voltage-Gated Sodium Channel Subtypes Nav1.9, Nav1.7 and Nav1.1. <i>Marine Drugs</i> , 2017, 15, 269.	2.2	16
33	Electrophysiological and Neurochemical Techniques to Investigate Sensory Neurons in Analgesia Research. <i>Methods in Molecular Biology</i> , 2010, 617, 237-259.	0.4	15
34	Thirty Mouse Strain Survey of Voluntary Physical Activity and Energy Expenditure: Influence of Strain, Sex and Day-Night Variation. <i>Frontiers in Neuroscience</i> , 2020, 14, 531.	1.4	11
35	Brain mechanisms of abnormal temperature perception in cold allodynia induced by ciguatoxin. <i>Annals of Neurology</i> , 2017, 81, 104-116.	2.8	8
36	Odontoblasts are cold sensory cells in teeth. <i>Temperature</i> , 0, , 1-4.	1.7	0