

Katharina Zimmermann

List of Publications by Citations

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36
papers

3,182
citations

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h-index

37
g-index

37
ext. papers

3,689
ext. citations

9.3
avg, IF

4.48
L-index

#	Paper	IF	Citations
36	Nociceptors are interleukin-1beta sensors. <i>Journal of Neuroscience</i> , 2008 , 28, 14062-73	6.6	439
35	TREK-1, a K ⁺ channel involved in polymodal pain perception. <i>EMBO Journal</i> , 2006 , 25, 2368-76	13	323
34	Sensory neuron sodium channel Nav1.8 is essential for pain at low temperatures. <i>Nature</i> , 2007 , 447, 855-8	30.4	297
33	The mechano-activated K ⁺ channels TRAAK and TREK-1 control both warm and cold perception. <i>EMBO Journal</i> , 2009 , 28, 1308-18	13	270
32	A TRP channel trio mediates acute noxious heat sensing. <i>Nature</i> , 2018 , 555, 662-666	50.4	203
31	TRPA1 and substance P mediate colitis in mice. <i>Gastroenterology</i> , 2011 , 141, 1346-58	13.3	152
30	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, 18114-9	11.5	146
29	Methylglyoxal activates nociceptors through transient receptor potential channel A1 (TRPA1): a possible mechanism of metabolic neuropathies. <i>Journal of Biological Chemistry</i> , 2012 , 287, 28291-306	5.4	139
28	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, 12938-43	11.5	139
27	Phenotyping sensory nerve endings in vitro in the mouse. <i>Nature Protocols</i> , 2009 , 4, 174-96	18.8	128
26	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	8	111
25	Voltage-gated sodium channels in pain states: role in pathophysiology and targets for treatment. <i>Brain Research Reviews</i> , 2009 , 60, 65-83		111
24	Ciguatoxins activate specific cold pain pathways to elicit burning pain from cooling. <i>EMBO Journal</i> , 2012 , 31, 3795-808	13	89
23	Analgesic Effects of GpTx-1, PF-04856264 and CNV1014802 in a Mouse Model of Nav1.7-Mediated Pain. <i>Toxins</i> , 2016 , 8,	4.9	75
22	Improved superfusion technique for rapid cooling or heating of cultured cells under patch-clamp conditions. <i>Journal of Neuroscience Methods</i> , 2006 , 151, 178-85	3	68
21	Systemic desensitization through TRPA1 channels by capsazepine and mustard oil - a novel strategy against inflammation and pain. <i>Scientific Reports</i> , 2016 , 6, 28621	4.9	57
20	Ciguatera fish poisoning: a first epidemic in Germany highlights an increasing risk for European countries. <i>Toxicon</i> , 2014 , 91, 76-83	2.8	52

19	Multiple sodium channel isoforms mediate the pathological effects of Pacific ciguatoxin-1. <i>Scientific Reports</i> , 2017 , 7, 42810	4.9	47
18	Analgesic treatment of ciguatoxin-induced cold allodynia. <i>Pain</i> , 2013 , 154, 1999-2006	8	45
17	Amplified cold transduction in native nociceptors by M-channel inhibition. <i>Journal of Neuroscience</i> , 2013 , 33, 16627-41	6.6	33
16	Differential effects of TRPV channel block on polymodal activation of rat cutaneous nociceptors in vitro. <i>Experimental Brain Research</i> , 2009 , 196, 31-44	2.3	32
15	The influence of simultaneous ratings on cortical BOLD effects during painful and non-painful stimulation. <i>Pain</i> , 2008 , 135, 131-41	8	32
14	Therapeutic opportunities for targeting cold pain pathways. <i>Biochemical Pharmacology</i> , 2015 , 93, 125-406		29
13	Cold Temperature Encoding by Cutaneous TRPA1 and TRPM8-Carrying Fibers in the Mouse. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 209	6.1	28
12	Crotaline desensitizes TRPA1 ion channels to alleviate inflammatory hyperalgesia. <i>Pain</i> , 2016 , 157, 2504-2516	8	21
11	Agonist-dependent modulation of cell surface expression of the cold receptor TRPM8. <i>Journal of Neuroscience</i> , 2015 , 35, 571-82	6.6	19
10	The tetrodotoxin-resistant Na ⁺ channel Na (v)1.8 reduces the potency of local anesthetics in blocking C-fiber nociceptors. <i>Pflugers Archiv European Journal of Physiology</i> , 2010 , 459, 751-63	4.6	14
9	Comprehensive thermal preference phenotyping in mice using a novel automated circular gradient assay. <i>Temperature</i> , 2016 , 3, 77-91	5.2	14
8	Central projection of pain arising from delayed onset muscle soreness (DOMS) in human subjects. <i>PLoS ONE</i> , 2012 , 7, e47230	3.7	12
7	Electrophysiological and neurochemical techniques to investigate sensory neurons in analgesia research. <i>Methods in Molecular Biology</i> , 2010 , 617, 237-59	1.4	12
6	Odontoblast TRPC5 channels signal cold pain in teeth. <i>Science Advances</i> , 2021 , 7,	14.3	12
5	Ciguatoxins Evoke Potent CGRP Release by Activation of Voltage-Gated Sodium Channel Subtypes Na1.9, Na1.7 and Na1.1. <i>Marine Drugs</i> , 2017 , 15,	6	11
4	Heat-resistant action potentials require TTX-resistant sodium channels Na1.8 and Na1.9. <i>Journal of General Physiology</i> , 2018 , 150, 1125-1144	3.4	10
3	Brain mechanisms of abnormal temperature perception in cold allodynia induced by ciguatoxin. <i>Annals of Neurology</i> , 2017 , 81, 104-116	9.4	6
2	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	5.1	2

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

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