Trese Leinders-Zufall

List of Publications by Year
in descending order

89 papers	7,336 citations	66343 42 h-index	62596 80 g-index
94 all docs	94 docs citations	94 times ranked	4443 citing authors

#	Article	IF	Citations
1	BTDAzo: A Photoswitchable TRPC5 Channel Activator**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	7
2	Sensory Detection by the Vomeronasal Organ Modulates Experience-Dependent Social Behaviors in Female Mice. Frontiers in Cellular Neuroscience, 2021, 15, 638800.	3.7	14
3	A diacylglycerol photoswitching protocol for studying TRPC channel functions in mammalian cells and tissue slices. STAR Protocols, 2021, 2, 100527.	1.2	6
4	Danger perception and stress response through an olfactory sensor for the bacterial metabolite hydrogen sulfide. Neuron, 2021, 109, 2469-2484.e7.	8.1	14
5	Chemosensory Cell-Derived Acetylcholine Drives Tracheal Mucociliary Clearance in Response to Virulence-Associated Formyl Peptides. Immunity, 2020, 52, 683-699.e11.	14.3	63
6	Studying the biology of cytotoxic T lymphocytes in vivo with a fluorescent granzyme B-mTFP knock-in mouse. ELife, 2020, 9, .	6.0	7
7	Trpc5 deficiency causes hypoprolactinemia and altered function of oscillatory dopamine neurons in the arcuate nucleus. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15236-15243.	7.1	22
8	Bacterial MgrB peptide activates chemoreceptor Fpr3 in mouse accessory olfactory system and drives avoidance behaviour. Nature Communications, 2019, 10, 4889.	12.8	30
9	Central role of G protein GÎ±i2 and GÎ±i2 ⁺ vomeronasal neurons in balancing territorial and infant-directed aggression of male mice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5135-5143.	7.1	51
10	PhoDAGs Enable Optical Control of Diacylglycerol-Sensitive Transient Receptor Potential Channels. Cell Chemical Biology, 2018, 25, 215-223.e3.	5.2	47
11	Ca2+-activated Clâ˜ currents in the murine vomeronasal organ enhance neuronal spiking but are dispensable for maleâ€“male aggression. Journal of Biological Chemistry, 2018, 293, 10392-10403.	3.4	13
12	Type 3 inositol 1,4,5-trisphosphate receptor is dispensable for sensory activation of the mammalian vomeronasal organ. Scientific Reports, 2017, 7, 10260.	3.3	17
13	Olfactory Sensory Neurons of the Peripheral Olfactory Systemâ˜†. , 2017, , .		0
14	The Accessory Olfactory Systemâ˜†. , 2017, , .		0
15	Cyclic GMP Signaling in Olfactory Sensory Neurons. , 2016, , 141-155.		1
16	Functional Overexpression of Vomeronasal Receptors Using a Herpes Simplex Virus Type 1 (HSV-1)-Derived Amplicon. PLoS ONE, 2016, 11, e0156092.	2.5	11
17	A Sensor for Low Environmental Oxygen in the Mouse Main Olfactory Epithelium. Neuron, 2016, 92, 1196-1203.	8.1	45
18	Strain-specific Loss of Formyl Peptide Receptor 3 in the Murine Vomeronasal and Immune Systems. Journal of Biological Chemistry, 2016, 291, 9762-9775.	3.4	38

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19	The Sense of Smell: Role of the Olfactory Systems in Detecting Pheromones. , 2016, , 935-960.		0
20	Pregnancy and estrogen enhance neural progenitor-cell proliferation in the vomeronasal sensory epithelium. BMC Biology, 2015, 13, 104.	3.8	42
21	Hypothalamic gonadotropin-releasing hormone (GnRH) receptor neurons fire in synchrony with the female reproductive cycle. Journal of Neurophysiology, 2015, 114, 1008-1021.	1.8	14
22	Innate Predator Odor Aversion Driven by Parallel Olfactory Subsystems that Converge in the Ventromedial Hypothalamus. Current Biology, 2015, 25, 1340-1346.	3.9	138
23	The Sense of Smell: Role of the Olfactory Systems in Detecting Pheromones. , 2015, , 1-26.		0
24	Signaling mechanisms and behavioral function of the mouse basal vomeronasal neuroepithelium. Frontiers in Neuroanatomy, 2014, 8, 135.	1.7	35
25	A Family of Nonclassical Class I MHC Genes Contributes to Ultrasensitive Chemodetection by Mouse Vomeronasal Sensory Neurons. Journal of Neuroscience, 2014, 34, 5121-5133.	3.6	79
26	A wide range of pheromone-stimulated sexual and reproductive behaviors in female mice depend on G protein Gî±o. BMC Biology, 2014, 12, 31.	3.8	56
27	TRP Channels in Reproductive (Neuro)Endocrinology. Handbook of Experimental Pharmacology, 2014, 223, 1107-1118.	1.8	2
28	The Electrovomeronasogram: Field Potential Recordings in the Mouse Vomeronasal Organ. Methods in Molecular Biology, 2013, 1068, 221-236.	0.9	3
29	Mouse urinary peptides provide a molecular basis for genotype discrimination by nasal sensory neurons. Nature Communications, 2013, 4, 1616.	12.8	81
30	Imaging Calcium Responses in GFP-tagged Neurons of Hypothalamic Mouse Brain Slices. Journal of Visualized Experiments, 2012, , e4213.	0.3	2
31	From genes to social communication: molecular sensing by the vomeronasal organ. Trends in Neurosciences, 2012, 35, 597-606.	8.6	136
32	Link Between Pain and Olfaction in an Inherited Sodium Channelopathy. Archives of Neurology, 2012, 69, 1119-23.	4.5	22
33	Genetic Identification of GnRH Receptor Neurons: A New Model for Studying Neural Circuits Underlying Reproductive Physiology in the Mouse Brain. Endocrinology, 2011, 152, 1515-1526.	2.8	104
34	Newborn Interneurons in the Accessory Olfactory Bulb Promote Mate Recognition in Female Mice. Frontiers in Neuroscience, 2011, 5, 113.	2.8	65
35	Loss-of-function mutations in sodium channel Nav1.7 cause anosmia. Nature, 2011, 472, 186-190.	27.8	267
36	G protein Gî±o is essential for vomeronasal function and aggressive behavior in mice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12898-12903.	7.1	159

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37	An Olfactory Subsystem that Detects Carbon Disulfide and Mediates Food-Related Social Learning. Current Biology, 2010, 20, 1438-1444.	3.9	151
38	Grueneberg Ganglion Neurons Are Finely Tuned Cold Sensors. Journal of Neuroscience, 2010, 30, 7563-7568.	3.6	54
39	Olfactory Epithelium. , 2009, , 113-118.		2
40	Vomeronasal Accessory System. , 2009, , 453-459.		0
41	Ca2+ Extrusion by NCX Is Compromised in Olfactory Sensory Neurons of OMPâ^'/â^' Mice. PLoS ONE, 2009, 4, e4260.	2.5	55
42	Ca²⁺â€“Calmodulin Feedback Mediates Sensory Adaptation and Inhibits Pheromone-Sensitive Ion Channels in the Vomeronasal Organ. Journal of Neuroscience, 2009, 29, 2125-2135.	3.6	60
43	Structural requirements for the activation of vomeronasal sensory neurons by MHC peptides. Nature Neuroscience, 2009, 12, 1551-1558.	14.8	120
44	Functional Analysis of the Guanylyl Cyclase Type D Signaling System in the Olfactory Epithelium. Annals of the New York Academy of Sciences, 2009, 1170, 173-176.	3.8	13
45	Subsystem Organization of the Mammalian Sense of Smell. Annual Review of Physiology, 2009, 71, 115-140.	13.1	263
46	Guest lecture: â€˜Love at first smell: olfactory neurons with MHC-like peptide binding propertiesâ€™. Experimental Dermatology, 2008, 17, 627-627.	2.9	0
47	Accessory Olfactory System. , 2008, , 783-814.		3
48	Pheromonkommunikation bei MÃusen: Vom Gen zum Verhalten. E-Neuroforum, 2008, 14, 159-165.	0.1	0
49	Contribution of the receptor guanylyl cyclase GC-D to chemosensory function in the olfactory epithelium. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14507-14512.	7.1	199
50	Patch-Clamp Analysis of Gene-Targeted Vomeronasal Neurons Expressing a Defined V1r or V2r Receptor: Ionic Mechanisms Underlying Persistent Firing. Journal of Neurophysiology, 2007, 98, 2357-2369.	1.8	38
51	Mammalian pheromone sensing. Current Opinion in Neurobiology, 2007, 17, 483-489.	4.2	84
52	Pheromonal recognition memory induced by TRPC2-independent vomeronasal sensing. European Journal of Neuroscience, 2006, 23, 3385-3390.	2.6	107
53	Signaling in the Chemosensory Systems. Cellular and Molecular Life Sciences, 2006, 63, 1476-1484.	5.4	120
54	Essential Role of the Main Olfactory System in Social Recognition of Major Histocompatibility Complex Peptide Ligands. Journal of Neuroscience, 2006, 26, 1961-1970.	3.6	275

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55	Neurobiology of TRPC2: from gene to behavior. Pflugers Archiv European Journal of Physiology, 2005, 451, 61-71.	2.8	70
56	One Neuron-Multiple Receptors: Increased Complexity in Olfactory Coding?. Science Signaling, 2005, 2005, pe25-pe25.	3.6	11
57	MHC Class I Peptides as Chemosensory Signals in the Vomeronasal Organ. Science, 2004, 306, 1033-1037.	12.6	546
58	A Diacylglycerol-Gated Cation Channel in Vomeronasal Neuron Dendrites Is Impaired in TRPC2 Mutant Mice. Neuron, 2003, 40, 551-561.	8.1	295
59	Altered sexual and social behaviors in trp2 mutant mice. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6376-6381.	7.1	516
60	Multiple, distinct actions of metal ions on cellular signaling processes. Materialwissenschaft Und Werkstofftechnik, 2002, 33, 751-755.	0.9	0
61	Pheromone detection by mammalian vomeronasal neurons. Microscopy Research and Technique, 2002, 58, 251.	2.2	63
62	Deficient pheromone responses in mice lacking a cluster of vomeronasal receptor genes. Nature, 2002, 419, 70-74.	27.8	338
63	Central Role of the CNGA4 Channel Subunit in Ca2+-Calmodulin-Dependent Odor Adaptation. Science, 2001, 294, 2172-2175.	12.6	124
64	Cyclic GMP evoked calcium transients in olfactory receptor cell growth cones. NeuroReport, 2000, 11, 677-681.	1.2	19
65	Ultrasensitive pheromone detection by mammalian vomeronasal neurons. Nature, 2000, 405, 792-796.	27.8	557
66	Amplification of Odor-Induced Ca²⁺ Transients by Store-Operated Ca²⁺ Release and Its Role in Olfactory Signal Transduction. Journal of Neurophysiology, 2000, 83, 501-512.	1.8	75
67	Blocking Adenylyl Cyclase Inhibits Olfactory Generator Currents Induced by â€œIP3-Odorsâ€. Journal of Neurophysiology, 2000, 84, 575-580.	1.8	63
68	The Cellular and Molecular Basis of Odor Adaptation. Chemical Senses, 2000, 25, 473-481.	2.0	260
69	Impaired Odor Adaptation in Olfactory Receptor Neurons after Inhibition of Ca2+/Calmodulin Kinase II. Journal of Neuroscience, 1999, 19, RC19-RC19.	3.6	82
70	Role of Cyclic GMP in Olfactory Transduction and Adaptationa. Annals of the New York Academy of Sciences, 1998, 855, 199-204.	3.8	26
71	Visualizing Odor Detection in Olfactory Cilia by Calcium Imaginga. Annals of the New York Academy of Sciences, 1998, 855, 205-207.	3.8	10
72	Imaging Odor-Induced Calcium Transients in Single Olfactory Cilia: Specificity of Activation and Role in Transduction. Journal of Neuroscience, 1998, 18, 5630-5639.	3.6	144

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73	Identification of a Long-Lasting Form of Odor Adaptation that Depends on the Carbon Monoxide/cGMP SecondMessenger System. Journal of Neuroscience, 1997, 17, 2703-2712.	3.6	97
74	Calcium Entry through Cyclic Nucleotide-Gated Channels in Individual Cilia of Olfactory Receptor Cells: Spatiotemporal Dynamics. Journal of Neuroscience, 1997, 17, 4136-4148.	3.6	146
75	Modulation by cyclic GMP of the odour sensitivity of vertebrate olfactory receptor cells. Proceedings of the Royal Society B: Biological Sciences, 1996, 263, 803-811.	2.6	36
76	A calcium-permeable cGMP-activated cation conductance in hippocampal neurons. NeuroReport, 1995, 6, 1761-1765.	1.2	88
77	Block of cyclic nucleotide-gated channels in salamander olfactory receptor neurons by the guanylyl cyclase inhibitor LY83583. Journal of Neurophysiology, 1995, 74, 2759-2762.	1.8	58
78	Regulation of cyclic nucleotide-gated channels and membrane excitability in olfactory receptor cells by carbon monoxide. Journal of Neurophysiology, 1995, 74, 1498-1508.	1.8	75
79	Metal interactions with voltage- and receptor-activated ion channels.. Environmental Health Perspectives, 1994, 102, 153-158.	6.0	31
80	Differential role of two Ca(2+)-permeable non-NMDA glutamate channels in rat retinal ganglion cells: kainate-induced cytoplasmic and nuclear Ca2+ signals. Journal of Neurophysiology, 1994, 72, 2503-2516.	1.8	37
81	Differential effects of heavy metal ions on Ca2+-dependent K+ channels. Cellular and Molecular Neurobiology, 1994, 14, 841-857.	3.3	13
82	Calcium signals in neurons. Nature, 1994, 371, 291-292.	27.8	28
83	Retinal ganglion cells express a cGMP-gated cation conductance activatable by nitric oxide donors. Neuron, 1994, 12, 155-165.	8.1	237
84	Single Ca2+-activated k+ channels in human erythrocytes: Ca2+ dependence of opening frequency but not of open lifetimes. Biochimica Et Biophysica Acta - Biomembranes, 1992, 1112, 67-74.	2.6	46
85	Distinct metal ion binding sites on Ca2+-activated K+ channels in inside-out patches of human erythrocytes. Biochimica Et Biophysica Acta - Biomembranes, 1992, 1112, 75-82.	2.6	32
86	Divalent cations activate small- (SK) and large-conductance (BK) channels in mouse neuroblastoma cells: selective activation of SK channels by cadmium. Pflugers Archiv European Journal of Physiology, 1992, 422, 217-222.	2.8	18
87	Ca2+ dependence of small Ca2+-activated K+ channels in cultured N1E-115 mouse neuroblastoma cells. Pflugers Archiv European Journal of Physiology, 1992, 422, 223-232.	2.8	24
88	Ovariectomy and subchronic estradiol-17Î² administration decrease dopamine D1 and D2 receptors in rat striatum. Psychoneuroendocrinology, 1989, 14, 469-476.	2.7	26
89	The action of pyrethroids on sodium channels in myelinated nerve fibres and spinal ganglion cells of the frog. Brain Research, 1989, 482, 324-332.	2.2	8