Kazushige Touhara

List of Publications by Year
in descending order

73 papers	6,161 citations	136740 32 h-index	110170 64 g-index

77 all docs	77 docs citations	77 times ranked	5306 citing authors

#	Article	IF	Citations
1	Sensing Odorants and Pheromones with Chemosensory Receptors. Annual Review of Physiology, 2009, 71, 307-332.	5.6	487
2	Insect Sex-Pheromone Signals Mediated by Specific Combinations of Olfactory Receptors. Science, 2005, 307, 1638-1642.	6.0	466
3	The scent of disease: volatile organic compounds of the human body related to disease and disorder. Journal of Biochemistry, 2011, 150, 257-266.	0.9	446
4	Identification and functional characterization of a sex pheromone receptor in the silkmoth Bombyx mori. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16653-16658.	3.3	366
5	The male mouse pheromone ESP1 enhances female sexual receptive behaviour through a specific vomeronasal receptor. Nature, 2010, 466, 118-122.	13.7	340
6	Sex-specific peptides from exocrine glands stimulate mouse vomeronasal sensory neurons. Nature, 2005, 437, 898-901.	13.7	335
7	Molecular Bases of Odor Discrimination: Reconstitution of Olfactory Receptors that Recognize Overlapping Sets of Odorants. Journal of Neuroscience, 2001, 21, 6018-6025.	1.7	322
8	Extreme expansion of the olfactory receptor gene repertoire in African elephants and evolutionary dynamics of orthologous gene groups in 13 placental mammals. Genome Research, 2014, 24, 1485-1496.	2.4	287
9	Structural Basis for a Broad But Selective Ligand Spectrum of a Mouse Olfactory Receptor: Mapping the Odorant-Binding Site. Journal of Neuroscience, 2005, 25, 1806-1815.	1.7	278
10	Olfactory receptor antagonism between odorants. EMBO Journal, 2004, 23, 120-126.	3.5	237
11	Odorant Receptor Map in the Mouse Olfactory Bulb: In Vivo Sensitivity and Specificity of Receptor-Defined Glomeruli. Neuron, 2006, 52, 857-869.	3.8	172
12	A juvenile mouse pheromone inhibits sexual behaviour through the vomeronasal system. Nature, 2013, 502, 368-371.	13.7	151
13	A Labeled-Line Neural Circuit for Pheromone-Mediated Sexual Behaviors in Mice. Neuron, 2017, 95, 123-137.e8.	3.8	141
14	Sex- and Strain-Specific Expression and Vomeronasal Activity of Mouse ESP Family Peptides. Current Biology, 2007, 17, 1879-1884.	1.8	135
15	Versatile whole-organ/body staining and imaging based on electrolyte-gel properties of biological tissues. Nature Communications, 2020, 11, 1982.	5.8	134
16	Amino Acid Residues Contributing to Function of the Heteromeric Insect Olfactory Receptor Complex. PLoS ONE, 2012, 7, e32372.	1.1	131
17	Odorant response assays for a heterologously expressed olfactory receptor. Biochemical and Biophysical Research Communications, 2003, 305, 964-969.	1.0	122
18	Amino acid coevolution reveals three-dimensional structure and functional domains of insect odorant receptors. Nature Communications, 2015, 6, 6077.	5.8	113

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19	Acceleration of Olfactory Receptor Gene Loss in Primate Evolution: Possible Link to Anatomical Change in Sensory Systems and Dietary Transition. Molecular Biology and Evolution, 2018, 35, 1437-1450.	3.5	102
20	Mammalian olfactory receptors: pharmacology, G protein coupling and desensitization. Cellular and Molecular Life Sciences, 2009, 66, 3743-3753.	2.4	98
21	Olfactory Receptor and Neural Pathway Responsible for Highly Selective Sensing of Musk Odors. Neuron, 2014, 81, 165-178.	3.8	87
22	Dimethyl Trisulfide as a Characteristic Odor Associated with Fungating Cancer Wounds. Bioscience, Biotechnology and Biochemistry, 2009, 73, 2117-2120.	0.6	75
23	Structural determinants for membrane trafficking and Gprotein selectivity of a mouse olfactory receptor. Journal of Neurochemistry, 2004, 90, 1453-1463.	2.1	73
24	Light generation of intracellular Ca2+ signals by a genetically encoded protein BACCS. Nature Communications, 2015, 6, 8021.	5.8	67
25	An unsaturated aliphatic alcohol as a natural ligand for a mouse odorant receptor. Nature Chemical Biology, 2013, 9, 160-162.	3.9	65
26	Deorphanizing vertebrate olfactory receptors: Recent advances in odorant-response assays. Neurochemistry International, 2007, 51, 132-139.	1.9	59
27	Transcriptional regulators involved in responses to volatile organic compounds in plants. Journal of Biological Chemistry, 2019, 294, 2256-2266.	1.6	56
28	Ligand Specificity and Evolution of Mammalian Musk Odor Receptors: Effect of Single Receptor Deletion on Odor Detection. Journal of Neuroscience, 2016, 36, 4482-4491.	1.7	53
29	Relationship Between Odor Intensity Estimates and COVID-19 Prevalence Prediction in a Swedish Population. Chemical Senses, 2020, 45, 449-456.	1.1	53
30	Sexual rejection via a vomeronasal receptor-triggered limbic circuit. Nature Communications, 2018, 9, 4463.	5.8	43
31	Structural insights into the nucleotide base specificity of P2X receptors. Scientific Reports, 2017, 7, 45208.	1.6	41
32	Male mice ultrasonic vocalizations enhance female sexual approach and hypothalamic kisspeptin neuron activity. Hormones and Behavior, 2017, 94, 53-60.	1.0	41
33	Metabolism of Odorant Molecules in Human Nasal/Oral Cavity Affects the Odorant Perception. Chemical Senses, 2019, 44, 465-481.	1.1	41
34	Hypothalamic neuronal circuits regulating hunger-induced taste modification. Nature Communications, 2019, 10, 4560.	5.8	39
35	Self-Exposure to the Male Pheromone ESP1 Enhances Male Aggressiveness in Mice. Current Biology, 2016, 26, 1229-1234.	1.8	37
36	Contribution of individual olfactory receptors to odor-induced attractive or aversive behavior in mice. Nature Communications, 2019, 10, 209.	5.8	37

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37	Neural circuits regulating sexual behaviors via the olfactory system in mice. Neuroscience Research, 2019, 140, 59-76.	1.0	37
38	Fruit scent and observer colour vision shape food-selection strategies in wild capuchin monkeys. Nature Communications, 2019, 10, 2407.	5.8	34
39	Calcitonin receptor signaling in the medial preoptic area enables risk-taking maternal care. Cell Reports, 2021, 35, 109204.	2.9	32
40	A long-range cis-regulatory element for class I odorant receptor genes. Nature Communications, 2017, 8, 885.	5.8	28
41	Identification of an Intra- and Inter-specific Tear Protein Signal in Rodents. Current Biology, 2018, 28, 1213-1223.e6.	1.8	27
42	Identification and characterization of the bombykal receptor in the hawkmoth Manduca sexta. Journal of Experimental Biology, 2017, 220, 1781-1786.	0.8	25
43	Exocrine Gland-Secreting Peptide 1 Is a Key Chemosensory Signal Responsible for the Bruce Effect in Mice. Current Biology, 2017, 27, 3197-3201.e3.	1.8	25
44	Molecular Biology of Peptide Pheromone Production and Reception in Mice. Advances in Genetics, 2007, 59, 147-171.	0.8	24
45	Child Odors and Parenting: A Survey Examination of the Role of Odor in Child-Rearing. PLoS ONE, 2016, 11, e0154392.	1.1	18
46	Structure and function of a peptide pheromone family that stimulate the vomeronasal sensory system in mice. Biochemical Society Transactions, 2014, 42, 873-877.	1.6	15
47	Spatiotemporal dynamics of odor representations in the human brain revealed by EEG decoding. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114966119.	3.3	15
48	Evaluation of the Role of G Protein-Coupled Receptor Kinase 3 in Desensitization of Mouse Odorant Receptors in a Mammalian Cell Line and in Olfactory Sensory Neurons. Chemical Senses, 2014, 39, 771-780.	1.1	14
49	Electrophysiological correlates of top-down attentional modulation in olfaction. Scientific Reports, 2019, 9, 4953.	1.6	14
50	Key Male Glandular Odorants Attracting Female Ring-Tailed Lemurs. Current Biology, 2020, 30, 2131-2138.e4.	1.8	13
51	Subjective unpleasantness of malodors induces a stress response. Psychoneuroendocrinology, 2019, 106, 206-215.	1.3	12
52	CUBIC-Cloud provides an integrative computational framework toward community-driven whole-mouse-brain mapping. Cell Reports Methods, 2021, 1, 100038.	1.4	12
53	Odorant metabolism of the olfactory cleft mucus in idiopathic olfactory impairment patients and healthy volunteers. International Forum of Allergy and Rhinology, 2022, 12, 293-301.	1.5	12
54	Comparative genomic analyses illuminate the distinct evolution of megabats within Chiroptera. DNA Research, 2020, 27, .	1.5	10

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55	An olfactory self-test effectively screens for COVID-19. Communications Medicine, 2022, 2, .	1.9	10
56	Modification of Male Courtship Motivation by Olfactory Habituation via the GABAA Receptor in Drosophila melanogaster. PLoS ONE, 2015, 10, e0135186.	1.1	9
57	A single vomeronasal receptor promotes intermale aggression through dedicated hypothalamic neurons. Neuron, 2022, 110, 2455-2469.e8.	3.8	9
58	Extracellular Modulation of the Silkmoth Sex Pheromone Receptor Activity by Cyclic Nucleotides. PLoS ONE, 2013, 8, e63774.	1.1	7
59	Enantioselective recognition of menthol by mouse odorant receptors. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1980-1986.	0.6	6
60	Vertebrate Odorant Receptors. , 2016, , 49-66.		5
61	Odor and Pheromone Molecules, Receptors, and Behavioral Responses. , 2014, , 19-38.		3
62	Genetic variation of olfactory receptor gene family in a Japanese population. Anthropological Science, 2022, 130, 93-106.	0.2	3
63	Hemoglobin in the blood acts as a chemosensory signal via the mouse vomeronasal system. Nature Communications, 2022, 13, 556.	5.8	3
64	Individuals With Autism Spectrum Disorder Show Altered Event-Related Potentials in the Late Stages of Olfactory Processing. Chemical Senses, 2019, 45, 37-44.	1.1	2
65	Response to Kappeler. Current Biology, 2020, 30, R1360.	1.8	2
66	Response to Drea et al.. Current Biology, 2020, 30, R1357-R1358.	1.8	1
67	Mechanisms of Musk Odor Perception. Kagaku To Seibutsu, 2015, 53, 774-781.	0.0	0
68	G Protein-Coupled Receptor Kinase 3 (GRK3) in Olfaction. Methods in Molecular Biology, 2018, 1820, 33-41.	0.4	0
69	A sexual rejection peptide: potential use for controlling mouse overpopulation. Bioscience, Biotechnology and Biochemistry, 2019, 83, 705-708.	0.6	0
70	Origin and Evolution of the Gene Family of Proteinaceous Pheromones, the Exocrine Gland-Secreting Peptides, in Rodents. Molecular Biology and Evolution, 2021, 38, 634-649.	3.5	0
71	Transcriptional regulators involved in responses to volatile organic compounds in plants. FASEB Journal, 2021, 35, .	0.2	0
72	Frontiers in the olfactory research : from odor signals, to receptors, and to the brain. Journal of Japan Association on Odor Environment, 2015, 46, 259-260.	0.1	0

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73	Mammalian Olfactory and Vomeronasal Receptor Families. , 2020, , 516-535.		0