

Liquan Huang

List of Publications by Year in descending order

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61
papers

3,989
citations

185998

28
h-index

128067

60
g-index

62
all docs

62
docs citations

62
times ranked

3260
citing authors

#	ARTICLE	IF	CITATIONS
1	A transient receptor potential channel expressed in taste receptor cells. <i>Nature Neuroscience</i> , 2002, 5, 1169-1176.	7.1	516
2	Tas1r3, encoding a new candidate taste receptor, is allelic to the sweet responsiveness locus Sac. <i>Nature Genetics</i> , 2001, 28, 58-63.	9.4	492
3	G \hat{I}^3 13 colocalizes with gustducin in taste receptor cells and mediates IP3 responses to bitter denatonium. <i>Nature Neuroscience</i> , 1999, 2, 1055-1062.	7.1	318
4	Pseudogenization of a Sweet-Receptor Gene Accounts for Cats' Indifference toward Sugar. <i>PLoS Genetics</i> , 2005, 1, e3.	1.5	203
5	Title is missing!. <i>Nature Genetics</i> , 2001, 28, 58-63.	9.4	173
6	Polymorphisms in the Taste Receptor Gene (Tas1r3) Region Are Associated with Saccharin Preference in 30 Mouse Strains. <i>Journal of Neuroscience</i> , 2004, 24, 938-946.	1.7	169
7	Bitter peptides and bitter taste receptors. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 1661-1671.	2.4	153
8	Inflammation and Taste Disorders. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 596-603.	1.8	139
9	Infection by the parasitic helminth <i>Trichinella spiralis</i> activates a Tas2r-mediated signaling pathway in intestinal tuft cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5564-5569.	3.3	136
10	Taste Bud Homeostasis in Health, Disease, and Aging. <i>Chemical Senses</i> , 2014, 39, 3-16.	1.1	117
11	G protein subunit G \hat{I}^3 13 is coexpressed with G $\hat{I}^{\pm 0}$, G \hat{I}^2 3, and G \hat{I}^2 4 in retinal ON bipolar cells. <i>Journal of Comparative Neurology</i> , 2003, 455, 1-10.	0.9	114
12	Recent advances in olfactory receptor-based biosensors. <i>Biosensors and Bioelectronics</i> , 2013, 42, 570-580.	5.3	93
13	Lipopolysaccharide-induced inflammation attenuates taste progenitor cell proliferation and shortens the life span of taste bud cells. <i>BMC Neuroscience</i> , 2010, 11, 72.	0.8	91
14	Inflammation Activates the Interferon Signaling Pathways in Taste Bud Cells. <i>Journal of Neuroscience</i> , 2007, 27, 10703-10713.	1.7	90
15	Functional characterization of bitter-taste receptors expressed in mammalian testis. <i>Molecular Human Reproduction</i> , 2013, 19, 17-28.	1.3	86
16	Bitter peptides activate hTAS2Rs, the human bitter receptors. <i>Biochemical and Biophysical Research Communications</i> , 2008, 365, 851-855.	1.0	82
17	Human Taste: Peripheral Anatomy, Taste Transduction, and Coding. , 2006, 63, 152-190.		79
18	Cats Lack a Sweet Taste Receptor. <i>Journal of Nutrition</i> , 2006, 136, 1932S-1934S.	1.3	68

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19	Regulation of bitter taste responses by tumor necrosis factor. <i>Brain, Behavior, and Immunity</i> , 2015, 49, 32-42.	2.0	63
20	Heterotrimeric G Protein Subunit G β 13 Is Critical to Olfaction. <i>Journal of Neuroscience</i> , 2013, 33, 7975-7984.	1.7	61
21	An Olfactory Cilia Pattern in the Mammalian Nose Ensures High Sensitivity to Odors. <i>Current Biology</i> , 2015, 25, 2503-2512.	1.8	51
22	Expression and Secretion of TNF- α in Mouse Taste Buds: A Novel Function of a Specific Subset of Type II Taste Cells. <i>PLoS ONE</i> , 2012, 7, e43140.	1.1	45
23	Interleukin-10 Is Produced by a Specific Subset of Taste Receptor Cells and Critical for Maintaining Structural Integrity of Mouse Taste Buds. <i>Journal of Neuroscience</i> , 2014, 34, 2689-2701.	1.7	44
24	Bioengineered olfactory sensory neuron-based biosensor for specific odorant detection. <i>Biosensors and Bioelectronics</i> , 2013, 40, 401-406.	5.3	43
25	Piezoelectric olfactory receptor biosensor prepared by aptamer-assisted immobilization. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 481-487.	4.0	38
26	Recent advances in taste cell- and receptor-based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 75-85.	4.0	35
27	Defects in the Peripheral Taste Structure and Function in the MRL/lpr Mouse Model of Autoimmune Disease. <i>PLoS ONE</i> , 2012, 7, e35588.	1.1	34
28	Expression of the voltage-gated potassium channel KCNQ1 in mammalian taste bud cells and the effect of its null mutation on taste preferences. <i>Journal of Comparative Neurology</i> , 2009, 512, 384-398.	0.9	32
29	A biomimetic bitter receptor-based biosensor with high efficiency immobilization and purification using self-assembled aptamers. <i>Analyst</i> , 2013, 138, 5989.	1.7	31
30	In vivo bioelectronic nose using transgenic mice for specific odor detection. <i>Biosensors and Bioelectronics</i> , 2018, 102, 150-156.	5.3	26
31	No Relationship between Sequence Variation in Protein Coding Regions of the Tas1r3 Gene and Saccharin Preference in Rats. <i>Chemical Senses</i> , 2005, 30, 231-240.	1.1	25
32	Label-free functional assays of chemical receptors using a bioengineered cell-based biosensor with localized extracellular acidification measurement. <i>Biosensors and Bioelectronics</i> , 2014, 54, 623-627.	5.3	24
33	A novel label-free bioengineered cell-based biosensor for salicin detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1151-1158.	4.0	24
34	Aggravated gut inflammation in mice lacking the taste signaling protein δ -gustducin. <i>Brain, Behavior, and Immunity</i> , 2018, 71, 23-27.	2.0	23
35	Identification and Functional Characterization of a Voltage-gated Chloride Channel and Its Novel Splice Variant in Taste Bud Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 36150-36157.	1.6	22
36	Detection of bitterness in vitro by a novel male mouse germ cell-based biosensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 461-469.	4.0	22

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37	A novel biomimetic olfactory cell-based biosensor with DNA-directed site-specific immobilization of cells on a microelectrode array. <i>Sensors and Actuators B: Chemical</i> , 2015, 217, 186-192.	4.0	20
38	A bioinspired in vitro bioelectronic tongue with human T2R38 receptor for high-specificity detection of N-C=S-containing compounds. <i>Talanta</i> , 2019, 199, 131-139.	2.9	19
39	A bioelectronic taste sensor based on bioengineered <i>Escherichia coli</i> cells combined with ITO-constructed electrochemical sensors. <i>Analytica Chimica Acta</i> , 2019, 1079, 73-78.	2.6	17
40	Biomimetic Sensors for the Senses: Towards Better Understanding of Taste and Odor Sensation. <i>Sensors</i> , 2017, 17, 2881.	2.1	16
41	Barhl 1 is required for the differentiation of inner ear hair cell-like cells from mouse embryonic stem cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 96, 79-89.	1.2	16
42	Sarco/Endoplasmic Reticulum Ca ²⁺ -ATPases (SERCA) Contribute to GPCR-Mediated Taste Perception. <i>PLoS ONE</i> , 2011, 6, e23165.	1.1	13
43	Developmental expression of the N-myc downstream regulated gene (NdrG) family during <i>Xenopus tropicalis</i> embryogenesis. <i>International Journal of Developmental Biology</i> , 2015, 59, 511-517.	0.3	11
44	Two Preputial Gland-Secreted Pheromones Evoke Sexually Dimorphic Neural Pathways in the Mouse Vomeronasal System. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 455.	1.8	11
45	Detection of 5-hydroxytryptamine (5-HT) in vitro using a hippocampal neuronal network-based biosensor with extracellular potential analysis of neurons. <i>Biosensors and Bioelectronics</i> , 2015, 66, 572-578.	5.3	10
46	Symposium Overview. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 581-584.	1.8	9
47	G protein β subunit G β 13 is essential for olfactory function and aggressive behavior in mice. <i>NeuroReport</i> , 2018, 29, 1333-1339.	0.6	9
48	Mammalian Taste Bud Cells Utilize Extragemmal 5-Hydroxy-L-Tryptophan to Biosynthesize the Neurotransmitter Serotonin. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 461.	1.8	8
49	Biomimetic in vitro respiratory system using smooth muscle cells on ECIS chips for anti-asthma TCMs screening. <i>Analytica Chimica Acta</i> , 2021, 1162, 338452.	2.6	8
50	Matrix metalloprotease-mediated cleavage of neural glial-related cell adhesion molecules activates quiescent olfactory stem cells via EGFR. <i>Molecular and Cellular Neurosciences</i> , 2020, 108, 103552.	1.0	8
51	Fabricating Tissues In Situ with the Controlled Cellular Alignments. <i>Advanced Healthcare Materials</i> , 2022, 11, e2100934.	3.9	8
52	Effects of Taste Signaling Protein Abolishment on Gut Inflammation in an Inflammatory Bowel Disease Mouse Model. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	7
53	Human Amniotic Epithelial Stem Cell-Derived Retinal Pigment Epithelium Cells Repair Retinal Degeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 737242.	1.8	7
54	A Cell Co-Culture Taste Sensor Using Different Proportions of Caco-2 and SH-SY5Y Cells for Bitterness Detection. <i>Chemosensors</i> , 2022, 10, 173.	1.8	7

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55	Characterization and expressional analysis of Dleu7 during <i>Xenopus tropicalis</i> embryogenesis. <i>Gene</i> , 2012, 509, 77-84.	1.0	4
56	Membrane-permeable tastants amplify β 2-adrenergic receptor signaling and delay receptor desensitization via intracellular inhibition of GRK2's kinase activity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1375-1388.	1.1	4
57	A One-Step Electropolymerized Biomimetic Polypyrrole Membrane-Based Electrochemical Sensor for Selective Detection of Valproate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 851692.	2.0	4
58	An In Vitro HL-1 Cardiomyocyte-Based Olfactory Biosensor for Olfr558-Inhibited Efficiency Detection. <i>Chemosensors</i> , 2022, 10, 200.	1.8	4
59	Stimulation of taste cells by sweet taste compounds. , 2006, , 3-29.		2
60	TOOLS FOR INVESTIGATING FUNCTIONAL INTERACTIONS BETWEEN LIPID-DERIVED AUTACOIDS AND THEIR RECEPTORS. <i>American Journal of Therapeutics</i> , 1996, 3, 280-286.	0.5	1
61	A Novel Cell-Based Biosensor for Bitter Taste Detection <i>In Vitro</i> . <i>Sensor Letters</i> , 2014, 12, 1134-1138.	0.4	1