Liquan Huang

List of Publications by Year
in descending order

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61 papers	3,989 citations	186265 28 h-index	128289 60 g-index
62 all docs	62 docs citations	62 times ranked	3260 citing authors

#	Article	IF	Citations
1	Fabricating Tissues In Situ with the Controlled Cellular Alignments. Advanced Healthcare Materials, 2022, 11, e2100934.	7.6	8
2	A One-Step Electropolymerized Biomimetic Polypyrrole Membrane-Based Electrochemical Sensor for Selective Detection of Valproate. Frontiers in Bioengineering and Biotechnology, 2022, 10, 851692.	4.1	4
3	A Cell Co-Culture Taste Sensor Using Different Proportions of Caco-2 and SH-SY5Y Cells for Bitterness Detection. Chemosensors, 2022, 10, 173.	3.6	7
4	An In Vitro HL-1 Cardiomyocyte-Based Olfactory Biosensor for Olfr558-Inhibited Efficiency Detection. Chemosensors, 2022, 10, 200.	3.6	4
5	Biomimetic inÂvitro respiratory system using smooth muscle cells on ECIS chips for anti-asthma TCMs screening. Analytica Chimica Acta, 2021, 1162, 338452.	5.4	8
6	Human Amniotic Epithelial Stem Cell-Derived Retinal Pigment Epithelium Cells Repair Retinal Degeneration. Frontiers in Cell and Developmental Biology, 2021, 9, 737242.	3.7	7
7	Matrix metalloprotease-mediated cleavage of neural glial-related cell adhesion molecules activates quiescent olfactory stem cells via EGFR. Molecular and Cellular Neurosciences, 2020, 108, 103552.	2.2	8
8	Two Preputial Gland-Secreted Pheromones Evoke Sexually Dimorphic Neural Pathways in the Mouse Vomeronasal System. Frontiers in Cellular Neuroscience, 2019, 13, 455.	3.7	11
9	A bioelectronic taste sensor based on bioengineered Escherichia coli cells combined with ITO-constructed electrochemical sensors. Analytica Chimica Acta, 2019, 1079, 73-78.	5.4	17
10	A bioinspired in vitro bioelectronic tongue with human T2R38 receptor for high-specificity detection of N-C=S-containing compounds. Talanta, 2019, 199, 131-139.	5.5	19
11	Infection by the parasitic helminth<i>Trichinella spiralis</i>activates a Tas2r-mediated signaling pathway in intestinal tuft cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5564-5569.	7.1	136
12	Aggravated gut inflammation in mice lacking the taste signaling protein Î±-gustducin. Brain, Behavior, and Immunity, 2018, 71, 23-27.	4.1	23
13	Barhl 1 is required for the differentiation of inner ear hair cell-like cells from mouse embryonic stem cells. International Journal of Biochemistry and Cell Biology, 2018, 96, 79-89.	2.8	16
14	In vivo bioelectronic nose using transgenic mice for specific odor detection. Biosensors and Bioelectronics, 2018, 102, 150-156.	10.1	26
15	Effects of Taste Signaling Protein Abolishment on Gut Inflammation in an Inflammatory Bowel Disease Mouse Model. Journal of Visualized Experiments, 2018, , .	0.3	7
16	Mammalian Taste Bud Cells Utilize Extragemmal 5-Hydroxy-L-Tryptophan to Biosynthesize the Neurotransmitter Serotonin. Frontiers in Cellular Neuroscience, 2018, 12, 461.	3.7	8
17	G protein Î³ subunit GÎ³13 is essential for olfactory function and aggressive behavior in mice. NeuroReport, 2018, 29, 1333-1339.	1.2	9
18	A novel label-free bioengineered cell-based biosensor for salicin detection. Sensors and Actuators B: Chemical, 2017, 238, 1151-1158.	7.8	24

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19	Biomimetic Sensors for the Senses: Towards Better Understanding of Taste and Odor Sensation. Sensors, 2017, 17, 2881.	3.8	16
20	Detection of bitterness in vitro by a novel male mouse germ cell-based biosensor. Sensors and Actuators B: Chemical, 2016, 223, 461-469.	7.8	22
21	Developmental expression of the N-myc downstream regulated gene (Ndrg) family during Xenopus tropicalis embryogenesis. International Journal of Developmental Biology, 2015, 59, 511-517.	0.6	11
22	A novel biomimetic olfactory cell-based biosensor with DNA-directed site-specific immobilization of cells on a microelectrode array. Sensors and Actuators B: Chemical, 2015, 217, 186-192.	7.8	20
23	Regulation of bitter taste responses by tumor necrosis factor. Brain, Behavior, and Immunity, 2015, 49, 32-42.	4.1	63
24	Membrane-permeable tastants amplify Î²2-adrenergic receptor signaling and delay receptor desensitization via intracellular inhibition of GRK2â€™s kinase activity. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1375-1388.	2.4	4
25	An Olfactory Cilia Pattern in the Mammalian Nose Ensures High Sensitivity to Odors. Current Biology, 2015, 25, 2503-2512.	3.9	51
26	Detection of 5-hydroxytryptamine (5-HT) in vitro using a hippocampal neuronal network-based biosensor with extracellular potential analysis of neurons. Biosensors and Bioelectronics, 2015, 66, 572-578.	10.1	10
27	Taste Bud Homeostasis in Health, Disease, and Aging. Chemical Senses, 2014, 39, 3-16.	2.0	117
28	Recent advances in taste cell- and receptor-based biosensors. Sensors and Actuators B: Chemical, 2014, 201, 75-85.	7.8	35
29	Label-free functional assays of chemical receptors using a bioengineered cell-based biosensor with localized extracellular acidification measurement. Biosensors and Bioelectronics, 2014, 54, 623-627.	10.1	24
30	Interleukin-10 Is Produced by a Specific Subset of Taste Receptor Cells and Critical for Maintaining Structural Integrity of Mouse Taste Buds. Journal of Neuroscience, 2014, 34, 2689-2701.	3.6	44
31	A Novel Cell-Based Biosensor for Bitter Taste Detection <i>In</i> <i>Vitro</i>. Sensor Letters, 2014, 12, 1134-1138.	0.4	1
32	A biomimetic bitter receptor-based biosensor with high efficiency immobilization and purification using self-assembled aptamers. Analyst, The, 2013, 138, 5989.	3.5	31
33	Piezoelectric olfactory receptor biosensor prepared by aptamer-assisted immobilization. Sensors and Actuators B: Chemical, 2013, 187, 481-487.	7.8	38
34	Recent advances in olfactory receptor-basedbiosensors. Biosensors and Bioelectronics, 2013, 42, 570-580.	10.1	93
35	Bioengineered olfactory sensory neuron-based biosensor for specific odorant detection. Biosensors and Bioelectronics, 2013, 40, 401-406.	10.1	43
36	Heterotrimeric G Protein Subunit GÎ³13 Is Critical to Olfaction. Journal of Neuroscience, 2013, 33, 7975-7984.	3.6	61

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37	Functional characterization of bitter-taste receptors expressed in mammalian testis. Molecular Human Reproduction, 2013, 19, 17-28.	2.8	86
38	Characterization and expressional analysis of Dleu7 during Xenopus tropicalis embryogenesis. Gene, 2012, 509, 77-84.	2.2	4
39	Defects in the Peripheral Taste Structure and Function in the MRL/lpr Mouse Model of Autoimmune Disease. PLoS ONE, 2012, 7, e35588.	2.5	34
40	Expression and Secretion of TNF-Î± in Mouse Taste Buds: A Novel Function of a Specific Subset of Type II Taste Cells. PLoS ONE, 2012, 7, e43140.	2.5	45
41	Sarco/Endoplasmic Reticulum Ca2+-ATPases (SERCA) Contribute to GPCR-Mediated Taste Perception. PLoS ONE, 2011, 6, e23165.	2.5	13
42	Lipopolysaccharide-induced inflammation attenuates taste progenitor cell proliferation and shortens the life span of taste bud cells. BMC Neuroscience, 2010, 11, 72.	1.9	91
43	Expression of the voltageâ€gated potassium channel KCNQ1 in mammalian taste bud cells and the effect of its nullâ€mutation on taste preferences. Journal of Comparative Neurology, 2009, 512, 384-398.	1.6	32
44	Bitter peptides and bitter taste receptors. Cellular and Molecular Life Sciences, 2009, 66, 1661-1671.	5.4	153
45	Inflammation and Taste Disorders. Annals of the New York Academy of Sciences, 2009, 1170, 596-603.	3.8	139
46	Symposium Overview. Annals of the New York Academy of Sciences, 2009, 1170, 581-584.	3.8	9
47	Bitter peptides activate hTAS2Rs, the human bitter receptors. Biochemical and Biophysical Research Communications, 2008, 365, 851-855.	2.1	82
48	Inflammation Activates the Interferon Signaling Pathways in Taste Bud Cells. Journal of Neuroscience, 2007, 27, 10703-10713.	3.6	90
49	Cats Lack a Sweet Taste Receptor. Journal of Nutrition, 2006, 136, 1932S-1934S.	2.9	68
50	Stimulation of taste cells by sweet taste compounds. , 2006, , 3-29.		2
51	Human Taste: Peripheral Anatomy, TasteTransduction, and Coding. , 2006, 63, 152-190.		79
52	Pseudogenization of a Sweet-Receptor Gene Accounts for Cats' Indifference toward Sugar. PLoS Genetics, 2005, 1, e3.	3.5	203
53	No Relationship between Sequence Variation in Protein Coding Regions of the Tas1r3 Gene and Saccharin Preference in Rats. Chemical Senses, 2005, 30, 231-240.	2.0	25
54	Identification and Functional Characterization of a Voltage-gated Chloride Channel and Its Novel Splice Variant in Taste Bud Cells. Journal of Biological Chemistry, 2005, 280, 36150-36157.	3.4	22

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55	Polymorphisms in the Taste Receptor Gene (<i>Tas1r3</i>) Region Are Associated with Saccharin Preference in 30 Mouse Strains. Journal of Neuroscience, 2004, 24, 938-946.	3.6	169
56	G protein subunit GÎ³13 is coexpressed with GÎ±o, GÎ²3, and GÎ²4 in retinal ON bipolar cells. Journal of Comparative Neurology, 2003, 455, 1-10.	1.6	114
57	A transient receptor potential channel expressed in taste receptor cells. Nature Neuroscience, 2002, 5, 1169-1176.	14.8	516
58	Tas1r3, encoding a new candidate taste receptor, is allelic to the sweet responsiveness locus Sac. Nature Genetics, 2001, 28, 58-63.	21.4	492
59	Title is missing!. Nature Genetics, 2001, 28, 58-63.	21.4	173
60	GÎ³13 colocalizes with gustducin in taste receptor cells and mediates IP3 responses to bitter denatonium. Nature Neuroscience, 1999, 2, 1055-1062.	14.8	318
61	TOOLS FOR INVESTIGATING FUNCTIONAL INTERACTIONS BETWEEN LIPID-DERIVED AUTACOIDS AND THEIR RECEPTORS. American Journal of Therapeutics, 1996, 3, 280-286.	0.9	1