

Joel D Mainland

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

3,585
citations

257450

24
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330143

37
g-index

49
all docs

49
docs citations

49
times ranked

3465
citing authors

#	ARTICLE	IF	CITATIONS
1	Odor Coding by a Mammalian Receptor Repertoire. <i>Science Signaling</i> , 2009, 2, ra9.	3.6	487
2	The Sniff Is Part of the Olfactory Percept. <i>Chemical Senses</i> , 2006, 31, 181-196.	2.0	317
3	The missense of smell: functional variability in the human odorant receptor repertoire. <i>Nature Neuroscience</i> , 2014, 17, 114-120.	14.8	269
4	Anosmia—A Clinical Review. <i>Chemical Senses</i> , 2017, 42, 513-523.	2.0	253
5	Attentional modulation in human primary olfactory cortex. <i>Nature Neuroscience</i> , 2005, 8, 114-120.	14.8	241
6	Predicting human olfactory perception from chemical features of odor molecules. <i>Science</i> , 2017, 355, 820-826.	12.6	194
7	Functional Evolution of Mammalian Odorant Receptors. <i>PLoS Genetics</i> , 2012, 8, e1002821.	3.5	176
8	Olfactomotor activity during imagery mimics that during perception. <i>Nature Neuroscience</i> , 2003, 6, 1142-1144.	14.8	156
9	Rapid Olfactory Processing Implicates Subcortical Control of an Olfactomotor System. <i>Journal of Neurophysiology</i> , 2003, 90, 1084-1094.	1.8	137
10	Probing ion permeation and gating in a K ⁺ channel with backbone mutations in the selectivity filter. <i>Nature Neuroscience</i> , 2001, 4, 239-246.	14.8	123
11	Genetic Variation in the Odorant Receptor OR2J3 Is Associated with the Ability to Detect the “Grassy” Smelling Odor, cis-3-hexen-1-ol. <i>Chemical Senses</i> , 2012, 37, 585-593.	2.0	110
12	Human olfactory receptor responses to odorants. <i>Scientific Data</i> , 2015, 2, 150002.	5.3	102
13	From molecule to mind: an integrative perspective on odor intensity. <i>Trends in Neurosciences</i> , 2014, 37, 443-454.	8.6	98
14	Variation in olfactory neuron repertoires is genetically controlled and environmentally modulated. <i>eLife</i> , 2017, 6, .	6.0	86
15	One nostril knows what the other learns. <i>Nature</i> , 2002, 419, 802-802.	27.8	84
16	Sex-Steroid Derived Compounds Induce Sex-Specific Effects on Autonomic Nervous System Function in Humans.. <i>Behavioral Neuroscience</i> , 2003, 117, 1125-1134.	1.2	77
17	The Prevalence of Androstenone Anosmia. <i>Chemical Senses</i> , 2003, 28, 423-432.	2.0	71
18	Olfactory Impairments in Patients with Unilateral Cerebellar Lesions Are Selective to Inputs from the Contralateral Nostril. <i>Journal of Neuroscience</i> , 2005, 25, 6362-6371.	3.6	68

#	ARTICLE	IF	CITATIONS
19	Genetic Variation of an Odorant Receptor OR7D4 and Sensory Perception of Cooked Meat Containing Androstenone. PLoS ONE, 2012, 7, e35259.	2.5	64
20	A transcriptomic atlas of mammalian olfactory mucosae reveals an evolutionary influence on food odor detection in humans. Science Advances, 2019, 5, eaax0396.	10.3	59
21	Competitive binding predicts nonlinear responses of olfactory receptors to complex mixtures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9598-9603.	7.1	59
22	Vapor detection and discrimination with a panel of odorant receptors. Nature Communications, 2018, 9, 4556.	12.8	58
23	Prevalence and correlates of parosmia and phantosmia among smell disorders. Chemical Senses, 2021, 46, .	2.0	33
24	The perception of odor pleasantness is shared across cultures. Current Biology, 2022, 32, 2061-2066.e3.	3.9	33
25	Identifying Treatments for Taste and Smell Disorders: Gaps and Opportunities. Chemical Senses, 2020, 45, 493-502.	2.0	32
26	Trafficking of Mammalian Chemosensory Receptors by Receptor-Transporting Proteins. Annals of the New York Academy of Sciences, 2009, 1170, 153-156.	3.8	26
27	Sensory nutrition: The role of taste in the reviews of commercial food products. Physiology and Behavior, 2019, 209, 112579.	2.1	26
28	Ramp Like Proteins. Advances in Experimental Medicine and Biology, 2012, 744, 75-86.	1.6	25
29	Simplifying the Odor Landscape. Chemical Senses, 2017, 42, 177-179.	2.0	20
30	Transport features predict if a molecule is odorous. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2116576119.	7.1	18
31	A 3D transcriptomics atlas of the mouse nose sheds light on the anatomical logic of smell. Cell Reports, 2022, 38, 110547.	6.4	16
32	Taste Perception: How Sweet It Is (To Be Transcribed by You). Current Biology, 2009, 19, R655-R656.	3.9	13
33	High-throughput Analysis of Mammalian Olfactory Receptors: Measurement of Receptor Activation via Luciferase Activity. Journal of Visualized Experiments, 2014, , .	0.3	11
34	Deconstructing the mouse olfactory percept through an ethological atlas. Current Biology, 2021, 31, 2809-2818.e3.	3.9	9
35	Examining the Influence of Chemosensation on Laryngeal Health and Disorders. Journal of Voice, 2023, 37, 234-244.	1.5	5
36	From musk to body odor: Decoding olfaction through genetic variation. PLoS Genetics, 2022, 18, e1009564.	3.5	5

#	ARTICLE	IF	CITATIONS
37	Next-Generation Sequencing of the Human Olfactory Receptors. Methods in Molecular Biology, 2013, 1003, 133-147.	0.9	2