

Leslie M Kay

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

3,068
citations

30
h-index

55
g-index

65
ext. papers

3,621
ext. citations

5.8
avg, IF

5.63
L-index

#	Paper	IF	Citations
56	Odor- and context-dependent modulation of mitral cell activity in behaving rats. <i>Nature Neuroscience</i> , 1999 , 2, 1003-9	25.5	311
55	Bidirectional processing in the olfactory-limbic axis during olfactory behavior.. <i>Behavioral Neuroscience</i> , 1998 , 112, 541-553	2.1	247
54	Olfactory oscillations: the what, how and what for. <i>Trends in Neurosciences</i> , 2009 , 32, 207-14	13.3	237
53	Olfactory bulb gamma oscillations are enhanced with task demands. <i>Journal of Neuroscience</i> , 2007 , 27, 8358-65	6.6	184
52	Disruption of GABA(A) receptors on GABAergic interneurons leads to increased oscillatory power in the olfactory bulb network. <i>Journal of Neurophysiology</i> , 2001 , 86, 2823-33	3.2	184
51	An olfacto-hippocampal network is dynamically involved in odor-discrimination learning. <i>Journal of Neurophysiology</i> , 2007 , 98, 2196-205	3.2	158
50	Theta oscillations and sensorimotor performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3863-8	11.5	130
49	Two species of gamma oscillations in the olfactory bulb: dependence on behavioral state and synaptic interactions. <i>Journal of Integrative Neuroscience</i> , 2003 , 2, 31-44	1.5	105
48	A beta oscillation network in the rat olfactory system during a 2-alternative choice odor discrimination task. <i>Journal of Neurophysiology</i> , 2010 , 104, 829-39	3.2	103
47	An argument for an olfactory thalamus. <i>Trends in Neurosciences</i> , 2007 , 30, 47-53	13.3	93
46	Information processing in the olfactory systems of insects and vertebrates. <i>Seminars in Cell and Developmental Biology</i> , 2006 , 17, 433-42	7.5	93
45	A redefinition of odor mixture quality. <i>Behavioral Neuroscience</i> , 2005 , 119, 726-33	2.1	91
44	Circuit oscillations in odor perception and memory. <i>Progress in Brain Research</i> , 2014 , 208, 223-51	2.9	79
43	Granule cell excitability mediates gamma and beta oscillations in a model of the dendrodendritic microcircuit. <i>BMC Neuroscience</i> , 2015 , 16,	3.2	78
42	Olfactory system gamma oscillations: the physiological dissection of a cognitive neural system. <i>Cognitive Neurodynamics</i> , 2008 , 2, 179-94	4.2	75
41	Reafference and attractors in the olfactory system during odor recognition. <i>International Journal of Neural Systems</i> , 1996 , 7, 489-95	6.2	66
40	The olfactory bulb theta rhythm follows all frequencies of diaphragmatic respiration in the freely behaving rat. <i>Frontiers in Behavioral Neuroscience</i> , 2014 , 8, 214	3.5	61

39	Biophysical model for gamma rhythms in the olfactory bulb via subthreshold oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21954-9	11.5	61
38	Chemical factors determine olfactory system beta oscillations in waking rats. <i>Journal of Neurophysiology</i> , 2007 , 98, 394-404	3.2	59
37	Gamma and Beta Oscillations Define a Sequence of Neurocognitive Modes Present in Odor Processing. <i>Journal of Neuroscience</i> , 2016 , 36, 7750-67	6.6	56
36	The rhythm of memory: how breathing shapes memory function. <i>Journal of Neurophysiology</i> , 2019 , 122, 563-571	3.2	45
35	Directional coupling from the olfactory bulb to the hippocampus during a go/no-go odor discrimination task. <i>Journal of Neurophysiology</i> , 2010 , 103, 2633-41	3.2	44
34	Receptor contributions to configural and elemental odor mixture perception. <i>Behavioral Neuroscience</i> , 2003 , 117, 1108-14	2.1	41
33	Glomerular activation patterns and the perception of odor mixtures. <i>European Journal of Neuroscience</i> , 2008 , 27, 2676-85	3.5	39
32	Interplay between sniffing and odorant sorptive properties in the rat. <i>Journal of Neuroscience</i> , 2012 , 32, 15577-89	6.6	38
31	Olfactory system oscillations across phyla. <i>Current Opinion in Neurobiology</i> , 2015 , 31, 141-7	7.6	33
30	Granule cell excitability regulates gamma and beta oscillations in a model of the olfactory bulb dendrodendritic microcircuit. <i>Journal of Neurophysiology</i> , 2016 , 116, 522-39	3.2	33
29	A critical test of the overlap hypothesis for odor mixture perception. <i>Behavioral Neuroscience</i> , 2009 , 123, 430-7	2.1	32
28	Winter day lengths enhance T lymphocyte phenotypes, inhibit cytokine responses, and attenuate behavioral symptoms of infection in laboratory rats. <i>Brain, Behavior, and Immunity</i> , 2007 , 21, 1096-108	16.6	32
27	Analysis of coherent activity between retrosplenial cortex, hippocampus, thalamus, and anterior cingulate cortex during retrieval of recent and remote context fear memory. <i>Neurobiology of Learning and Memory</i> , 2016 , 127, 93-101	3.1	31
26	Affective and adrenocorticotrophic responses to photoperiod in Wistar rats. <i>Journal of Neuroendocrinology</i> , 2008 , 20, 261-7	3.8	29
25	Rat behavior in go/no-go and two-alternative choice odor discrimination: differences and similarities. <i>Behavioral Neuroscience</i> , 2011 , 125, 588-603	2.1	27
24	How global are olfactory bulb oscillations?. <i>Journal of Neurophysiology</i> , 2010 , 104, 1768-73	3.2	23
23	A challenge to chaotic itinerancy from brain dynamics. <i>Chaos</i> , 2003 , 13, 1057-66	3.3	23
22	Rats assess degree of relatedness from human odors. <i>Physiology and Behavior</i> , 2007 , 90, 726-32	3.5	17

21	When good enough is best. <i>Neuron</i> , 2006 , 51, 277-8	13.9	17
20	Pharmacological manipulation of the olfactory bulb modulates beta oscillations: testing model predictions. <i>Journal of Neurophysiology</i> , 2018 , 120, 1090-1106	3.2	15
19	Grading odor similarities in a Go/No-Go task. <i>Physiology and Behavior</i> , 2006 , 88, 339-46	3.5	14
18	Olfactory coding: random scents make sense. <i>Current Biology</i> , 2011 , 21, R928-9	6.3	13
17	Task-Dependent Behavioral Dynamics Make the Case for Temporal Integration in Multiple Strategies during Odor Processing. <i>Journal of Neuroscience</i> , 2017 , 37, 4416-4426	6.6	11
16	Circadian Disruption Alters the Effects of Lipopolysaccharide Treatment on Circadian and Ultradian Locomotor Activity and Body Temperature Rhythms of Female Siberian Hamsters. <i>Journal of Biological Rhythms</i> , 2015 , 30, 543-56	3.2	11
15	Reproductive responses to photoperiod persist in olfactory bulbectomized Siberian hamsters (<i>Phodopus sungorus</i>). <i>Behavioural Brain Research</i> , 2009 , 198, 159-64	3.4	9
14	Influence of the olfactory bulbs on blood leukocytes and behavioral responses to infection in Siberian hamsters. <i>Brain Research</i> , 2009 , 1268, 48-57	3.7	7
13	Odor identity can be extracted from the reciprocal connectivity between olfactory bulb and piriform cortex in humans. <i>NeuroImage</i> , 2021 , 237, 118130	7.9	4
12	Two minds about odors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17569-70	11.5	3
11	Chaotic itinerancy: Insufficient perceptual evidence. <i>Behavioral and Brain Sciences</i> , 2001 , 24, 819-820	0.9	2
10	Transfer of Odor Perception From the Retronasal to the Orthonasal Pathway. <i>Chemical Senses</i> , 2021 , 46,	4.8	2
9	Walter J. Freeman: A Tribute. <i>Neuron</i> , 2017 , 94, 705-707	13.9	1
8	Timing at Multiple Scales in Olfactory Perception 2013 , 17-22		1
7	The Physiological Foresight in Freeman's Work: Predictions and Verifications. <i>Journal of Consciousness Studies</i> , 2018 , 25, 50-63		0
6	Long-Range Respiratory and Theta Oscillation Networks Depend on Spatial Sensory Context. <i>Journal of Neuroscience</i> , 2021 , 41, 9957-9970	6.6	0
5	How brains create the world: The dynamical legacy of Walter J Freeman in olfactory system physiology 2017 , 11, 41-47		
4	Dynamical Architecture of the Mammalian Olfactory System. <i>Lecture Notes in Computer Science</i> , 2008 , 67-90	0.9	

- 3 Active Behaviors in Odor Sampling Constrain the Task for Cortical Processing. *Advances in Cognitive Neurodynamics*, **2015**, 491-495
- 2 Beyond Sensory Coding: The Cognitive Context of Olfactory Neurodynamics **2011**, 85-89
- 1 Local Field Potentials in Olfaction **2022**, 1886-1895