

Leslie M Kay

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,776
citations

159358

30
h-index

197535

49
g-index

65
all docs

65
docs citations

65
times ranked

2187
citing authors

#	ARTICLE	IF	CITATIONS
1	Odor- and context-dependent modulation of mitral cell activity in behaving rats. <i>Nature Neuroscience</i> , 1999, 2, 1003-1009.	7.1	366
2	Olfactory oscillations: the what, how and what for. <i>Trends in Neurosciences</i> , 2009, 32, 207-214.	4.2	301
3	Bidirectional processing in the olfactory-limbic axis during olfactory behavior.. <i>Behavioral Neuroscience</i> , 1998, 112, 541-553.	0.6	271
4	Olfactory Bulb Gamma Oscillations Are Enhanced with Task Demands. <i>Journal of Neuroscience</i> , 2007, 27, 8358-8365.	1.7	230
5	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, 2823-2833.	0.9	207
6	An Olfacto-Hippocampal Network Is Dynamically Involved in Odor-Discrimination Learning. <i>Journal of Neurophysiology</i> , 2007, 98, 2196-2205.	0.9	191
7	Theta oscillations and sensorimotor performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3863-3868.	3.3	159
8	An argument for an olfactory thalamus. <i>Trends in Neurosciences</i> , 2007, 30, 47-53.	4.2	126
9	TWO SPECIES OF GAMMA OSCILLATIONS IN THE OLFACTORY BULB: DEPENDENCE ON BEHAVIORAL STATE AND SYNAPTIC INTERACTIONS. <i>Journal of Integrative Neuroscience</i> , 2003, 02, 31-44.	0.8	124
10	Information processing in the olfactory systems of insects and vertebrates. <i>Seminars in Cell and Developmental Biology</i> , 2006, 17, 433-442.	2.3	122
11	A Beta Oscillation Network in the Rat Olfactory System During a 2-Alternative Choice Odor Discrimination Task. <i>Journal of Neurophysiology</i> , 2010, 104, 829-839.	0.9	113
12	Circuit Oscillations in Odor Perception and Memory. <i>Progress in Brain Research</i> , 2014, 208, 223-251.	0.9	111
13	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.	1.0	110
14	A Redefinition of Odor Mixture Quality.. <i>Behavioral Neuroscience</i> , 2005, 119, 726-733.	0.6	102
15	Olfactory system gamma oscillations: the physiological dissection of a cognitive neural system. <i>Cognitive Neurodynamics</i> , 2008, 2, 179-194.	2.3	93
16	The rhythm of memory: how breathing shapes memory function. <i>Journal of Neurophysiology</i> , 2019, 122, 563-571.	0.9	86
17	Gamma and Beta Oscillations Define a Sequence of Neurocognitive Modes Present in Odor Processing. <i>Journal of Neuroscience</i> , 2016, 36, 7750-7767.	1.7	85
18	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, 21954-21959.	3.3	78

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19	REAFFERENCE AND ATTRACTORS IN THE OLFACTORY SYSTEM DURING ODOR RECOGNITION. <i>International Journal of Neural Systems</i> , 1996, 07, 489-495.	3.2	76
20	Chemical Factors Determine Olfactory System Beta Oscillations in Waking Rats. <i>Journal of Neurophysiology</i> , 2007, 98, 394-404.	0.9	71
21	Olfactory system oscillations across phyla. <i>Current Opinion in Neurobiology</i> , 2015, 31, 141-147.	2.0	71
22	Directional Coupling From the Olfactory Bulb to the Hippocampus During a Go/No-Go Odor Discrimination Task. <i>Journal of Neurophysiology</i> , 2010, 103, 2633-2641.	0.9	62
23	Interplay between Sniffing and Odorant Sorptive Properties in the Rat. <i>Journal of Neuroscience</i> , 2012, 32, 15577-15589.	1.7	52
24	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.	1.0	50
25	Receptor contributions to configural and elemental odor mixture perception.. <i>Behavioral Neuroscience</i> , 2003, 117, 1108-1114.	0.6	49
26	Glomerular activation patterns and the perception of odor mixtures. <i>European Journal of Neuroscience</i> , 2008, 27, 2676-2685.	1.2	49
27	Granule cell excitability regulates gamma and beta oscillations in a model of the olfactory bulb dendrodendritic microcircuit. <i>Journal of Neurophysiology</i> , 2016, 116, 522-539.	0.9	45
28	A critical test of the overlap hypothesis for odor mixture perception.. <i>Behavioral Neuroscience</i> , 2009, 123, 430-437.	0.6	38
29	Affective and Adrenocorticotrophic Responses to Photoperiod in Wistar Rats. <i>Journal of Neuroendocrinology</i> , 2008, 20, 261-267.	1.2	36
30	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, 1096-1108.	2.0	35
31	How Global Are Olfactory Bulb Oscillations?. <i>Journal of Neurophysiology</i> , 2010, 104, 1768-1773.	0.9	31
32	Rat behavior in go/no-go and two-alternative choice odor discrimination: Differences and similarities.. <i>Behavioral Neuroscience</i> , 2011, 125, 588-603.	0.6	31
33	A challenge to chaotic itinerancy from brain dynamics. <i>Chaos</i> , 2003, 13, 1057-1066.	1.0	23
34	Pharmacological manipulation of the olfactory bulb modulates beta oscillations: testing model predictions. <i>Journal of Neurophysiology</i> , 2018, 120, 1090-1106.	0.9	23
35	When Good Enough Is Best. <i>Neuron</i> , 2006, 51, 277-278.	3.8	20
36	Olfactory Coding: Random Scents Make Sense. <i>Current Biology</i> , 2011, 21, R928-R929.	1.8	20

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37	Grading odor similarities in a Go/No-Go task. <i>Physiology and Behavior</i> , 2006, 88, 339-346.	1.0	18
38	Rats assess degree of relatedness from human odors. <i>Physiology and Behavior</i> , 2007, 90, 726-732.	1.0	17
39	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.	1.7	17
40	Odor identity can be extracted from the reciprocal connectivity between olfactory bulb and piriform cortex in humans. <i>NeuroImage</i> , 2021, 237, 118130.	2.1	14
41	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, 543-556.	1.4	13
42	Reproductive responses to photoperiod persist in olfactory bulbectomized Siberian hamsters (<i>Phodopus sungorus</i>). <i>Behavioural Brain Research</i> , 2009, 198, 159-164.	1.2	10
43	Influence of the olfactory bulbs on blood leukocytes and behavioral responses to infection in Siberian hamsters. <i>Brain Research</i> , 2009, 1268, 48-57.	1.1	8
44	Long-Range Respiratory and Theta Oscillation Networks Depend on Spatial Sensory Context. <i>Journal of Neuroscience</i> , 2021, 41, 9957-9970.	1.7	6
45	Transfer of Odor Perception From the Retronasal to the Orthonasal Pathway. <i>Chemical Senses</i> , 2021, 46, .	1.1	4
46	Two minds about odors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17569-17570.	3.3	3
47	The Physiological Foresight in Freeman's Work: Predictions and Verifications. <i>Journal of Consciousness Studies</i> , 2018, 25, 50-63.	0.4	3
48	Chaotic itinerancy: Insufficient perceptual evidence. <i>Behavioral and Brain Sciences</i> , 2001, 24, 819-820.	0.4	2
49	Timing at Multiple Scales in Olfactory Perception. , 2013, , 17-22.		1
50	Walter J. Freeman: A Tribute. <i>Neuron</i> , 2017, 94, 705-707.	3.8	1
51	When Good Enough Is Best. <i>Neuron</i> , 2006, 51, 521.	3.8	0
52	Absolute Threshold in Acoustics. , 2008, , 3-3.		0
53	Granule cell excitability mediates gamma and beta oscillations in a model of the dendrodendritic microcircuit. <i>BMC Neuroscience</i> , 2015, 16, .	0.8	0
54	Editorial overview: Systems neuroscience 2016. <i>Current Opinion in Neurobiology</i> , 2016, 40, iv-vi.	2.0	0

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55	Dynamical Architecture of the Mammalian Olfactory System. Lecture Notes in Computer Science, 2008, , 67-90.	1.0	0
56	Beyond Sensory Coding: The Cognitive Context of Olfactory Neurodynamics. , 2011, , 85-89.		0
57	Local Field Potential in Olfaction. , 2014, , 1-7.		0
58	Active Behaviors in Odor Sampling Constrain the Task for Cortical Processing. Advances in Cognitive Neurodynamics, 2015, , 491-495.	0.1	0
59	Local Field Potential in Olfaction. , 2015, , 1527-1533.		0
60	Local Field Potentials in Olfaction. , 2019, , 1-10.		0
61	How brains create the world: The dynamical legacy of Walter J Freeman in olfactory system physiology. Chaos and Complexity Letters, 2017, 11, 41-47.	0.0	0
62	Olfactory Information. , 2009, , 2992-2998.		0
63	Local Field Potentials in Olfaction. , 2022, , 1886-1895.		0