

Donald B Katz

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,888
citations

236925

25
h-index

223800

46
g-index

59
all docs

59
docs citations

59
times ranked

2126
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic and Multimodal Responses of Gustatory Cortical Neurons in Awake Rats. <i>Journal of Neuroscience</i> , 2001, 21, 4478-4489.	3.6	283
2	The EJC Factor eIF4AIII Modulates Synaptic Strength and Neuronal Protein Expression. <i>Cell</i> , 2007, 130, 179-191.	28.9	278
3	Natural stimuli evoke dynamic sequences of states in sensory cortical ensembles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18772-18777.	7.1	256
4	Behavioral States, Network States, and Sensory Response Variability. <i>Journal of Neurophysiology</i> , 2008, 100, 1160-1168.	1.8	187
5	Learning-Related Plasticity of Temporal Coding in Simultaneously Recorded Amygdala Cortical Ensembles. <i>Journal of Neuroscience</i> , 2008, 28, 2864-2873.	3.6	149
6	Distinct Subtypes of Basolateral Amygdala Taste Neurons Reflect Palatability and Reward. <i>Journal of Neuroscience</i> , 2009, 29, 2486-2495.	3.6	112
7	State-Dependent Modulation of Time-Varying Gustatory Responses. <i>Journal of Neurophysiology</i> , 2006, 96, 3183-3193.	1.8	111
8	Gustatory processing is dynamic and distributed. <i>Current Opinion in Neurobiology</i> , 2002, 12, 448-454.	4.2	105
9	Stochastic Transitions between Neural States in Taste Processing and Decision-Making. <i>Journal of Neuroscience</i> , 2010, 30, 2559-2570.	3.6	105
10	Inactivation of Basolateral Amygdala Specifically Eliminates Palatability-Related Information in Cortical Sensory Responses. <i>Journal of Neuroscience</i> , 2012, 32, 9981-9991.	3.6	100
11	Taste-Specific Neuronal Ensembles in the Gustatory Cortex of Awake Rats. <i>Journal of Neuroscience</i> , 2002, 22, 1850-1857.	3.6	95
12	Sodium Concentration Coding Gives Way to Evaluative Coding in Cortex and Amygdala. <i>Journal of Neuroscience</i> , 2012, 32, 9999-10011.	3.6	90
13	The Behavioral Relevance of Cortical Neural Ensemble Responses Emerges Suddenly. <i>Journal of Neuroscience</i> , 2016, 36, 655-669.	3.6	76
14	Gustatory processing: a dynamic systems approach. <i>Current Opinion in Neurobiology</i> , 2006, 16, 420-428.	4.2	74
15	7 to 12 Hz Activity in Rat Gustatory Cortex Reflects Disengagement From a Fluid Self-Administration Task. <i>Journal of Neurophysiology</i> , 2005, 93, 2832-2840.	1.8	65
16	Retronasal Odor Perception Requires Taste Cortex, but Orthonasal Does Not. <i>Current Biology</i> , 2019, 29, 62-69.e3.	3.9	64
17	Sensory Cortical Population Dynamics Uniquely Track Behavior across Learning and Extinction. <i>Journal of Neuroscience</i> , 2014, 34, 1248-1257.	3.6	61
18	A Multisensory Network for Olfactory Processing. <i>Current Biology</i> , 2015, 25, 2642-2650.	3.9	61

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19	Lateral Hypothalamus Contains Two Types of Palatability-Related Taste Responses with Distinct Dynamics. <i>Journal of Neuroscience</i> , 2013, 33, 9462-9473.	3.6	59
20	Neural dynamics in response to binary taste mixtures. <i>Journal of Neurophysiology</i> , 2013, 109, 2108-2117.	1.8	47
21	Single and population coding of taste in the gustatory cortex of awake mice. <i>Journal of Neurophysiology</i> , 2019, 122, 1342-1356.	1.8	44
22	Accuracy and response-time distributions for decision-making: linear perfect integrators versus nonlinear attractor-based neural circuits. <i>Journal of Computational Neuroscience</i> , 2013, 35, 261-294.	1.0	43
23	Cortical Networks Produce Three Distinct 7-12 Hz Rhythms during Single Sensory Responses in the Awake Rat. <i>Journal of Neuroscience</i> , 2010, 30, 4315-4324.	3.6	40
24	Impact of precisely-timed inhibition of gustatory cortex on taste behavior depends on single-trial ensemble dynamics. <i>ELife</i> , 2019, 8, .	6.0	40
25	Interaction of Taste and Place Coding in the Hippocampus. <i>Journal of Neuroscience</i> , 2019, 39, 3057-3069.	3.6	34
26	Homeostatic synaptic scaling establishes the specificity of an associative memory. <i>Current Biology</i> , 2021, 31, 2274-2285.e5.	3.9	31
27	Haloperidol-induced changes in neuronal activity in the striatum of the freely moving rat. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 110.	2.5	30
28	Sensory Cortical Activity Is Related to the Selection of a Rhythmic Motor Action Pattern. <i>Journal of Neuroscience</i> , 2016, 36, 5596-5607.	3.6	29
29	Dynamic taste responses of parabrachial pontine neurons in awake rats. <i>Journal of Neurophysiology</i> , 2016, 115, 1314-1323.	1.8	23
30	Licking Microstructure Reveals Rapid Attenuation of Neophobia. <i>Chemical Senses</i> , 2014, 39, 203-213.	2.0	22
31	Local Field Potentials in the Gustatory Cortex Carry Taste Information. <i>Journal of Neuroscience</i> , 2014, 34, 8778-8787.	3.6	16
32	Preexposure to salty and sour taste enhances conditioned taste aversion to novel sucrose. <i>Learning and Memory</i> , 2016, 23, 221-228.	1.3	16
33	Memory Retrieval Has a Dynamic Influence on the Maintenance Mechanisms That Are Sensitive to δ -Inhibitory Peptide (ZIP). <i>Journal of Neuroscience</i> , 2016, 36, 10654-10662.	3.6	16
34	Genetically Induced Cholinergic Hyper-Innervation Enhances Taste Learning. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 97.	2.5	15
35	The role of the gustatory cortex in incidental experience-evoked enhancement of later taste learning. <i>Learning and Memory</i> , 2018, 25, 587-600.	1.3	15
36	Python meets systems neuroscience: affordable, scalable and open-source electrophysiology in awake, behaving rodents. , 2017, , .		13

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37	The Many Flavors of Temporal Coding in Gustatory Cortex. <i>Chemical Senses</i> , 2005, 30, i80-i81.	2.0	11
38	Receptors, Circuits, and Behaviors: New Directions in Chemical Senses. <i>Journal of Neuroscience</i> , 2008, 28, 11802-11805.	3.6	11
39	Refinement and Reactivation of a Taste-Responsive Hippocampal Network. <i>Current Biology</i> , 2020, 30, 1306-1311.e4.	3.9	11
40	Perturbation of amygdala-cortical projections reduces ensemble coherence of palatability coding in gustatory cortex. <i>ELife</i> , 2021, 10, .	6.0	9
41	Optogenetic perturbation of projections from thalamic nucleus reuniens to hippocampus disrupts spatial working memory retrieval more than encoding. <i>Neurobiology of Learning and Memory</i> , 2021, 179, 107396.	1.9	8
42	Deletion of <i>Stk11</i> and <i>Fos</i> in mouse BLA projection neurons alters intrinsic excitability and impairs formation of long-term aversive memory. <i>ELife</i> , 2020, 9, .	6.0	7
43	Electrophysiological Studies of Gustation in Awake Rats. <i>Frontiers in Neuroscience</i> , 2001, , .	0.0	6
44	Stochastic Transitions between States of Neural Activity. , 2011, , 29-46.		5
45	A model of naturalistic decision making in preference tests. <i>PLoS Computational Biology</i> , 2021, 17, e1009012.	3.2	4
46	Cortical taste processing evolves through benign taste exposures.. <i>Behavioral Neuroscience</i> , 2022, 136, 182-194.	1.2	4
47	The function of groups of neurons changes from moment to moment. <i>Current Opinion in Physiology</i> , 2021, 20, 1-7.	1.8	3
48	Parametric shift from rational to irrational decisions in mice. <i>Scientific Reports</i> , 2021, 11, 480.	3.3	2
49	Editorial overview: Systems neuroscience 2016. <i>Current Opinion in Neurobiology</i> , 2016, 40, iv-vi.	4.2	0