Donald B Katz

List of Publications by Year
in descending order

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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	Cortical taste processing evolves through benign taste exposures.. Behavioral Neuroscience, 2022, 136, 182-194.	1.2	4
2	Optogenetic perturbation of projections from thalamic nucleus reuniens to hippocampus disrupts spatial working memory retrieval more than encoding. Neurobiology of Learning and Memory, 2021, 179, 107396.	1.9	8
3	The function of groups of neurons changes from moment to moment. Current Opinion in Physiology, 2021, 20, 1-7.	1.8	3
4	Perturbation of amygdala-cortical projections reduces ensemble coherence of palatability coding in gustatory cortex. ELife, 2021, 10, .	6.0	9
5	Homeostatic synaptic scaling establishes the specificity of an associative memory. Current Biology, 2021, 31, 2274-2285.e5.	3.9	31
6	A model of naturalistic decision making in preference tests. PLoS Computational Biology, 2021, 17, e1009012.	3.2	4
7	Parametric shift from rational to irrational decisions in mice. Scientific Reports, 2021, 11, 480.	3.3	2
8	Refinement and Reactivation of a Taste-Responsive Hippocampal Network. Current Biology, 2020, 30, 1306-1311.e4.	3.9	11
9	Deletion of Stk11 and Fos in mouse BLA projection neurons alters intrinsic excitability and impairs formation of long-term aversive memory. ELife, 2020, 9, .	6.0	7
10	Single and population coding of taste in the gustatory cortex of awake mice. Journal of Neurophysiology, 2019, 122, 1342-1356.	1.8	44
11	Interaction of Taste and Place Coding in the Hippocampus. Journal of Neuroscience, 2019, 39, 3057-3069.	3.6	34
12	Retronasal Odor Perception Requires Taste Cortex, but Orthonasal Does Not. Current Biology, 2019, 29, 62-69.e3.	3.9	64
13	Impact of precisely-timed inhibition of gustatory cortex on taste behavior depends on single-trial ensemble dynamics. ELife, 2019, 8, .	6.0	40
14	The role of the gustatory cortex in incidental experience-evoked enhancement of later taste learning. Learning and Memory, 2018, 25, 587-600.	1.3	15
15	Python meets systems neuroscience: affordable, scalable and open-source electrophysiology in awake, behaving rodents. , 2017, , .		13
16	Sensory Cortical Activity Is Related to the Selection of a Rhythmic Motor Action Pattern. Journal of Neuroscience, 2016, 36, 5596-5607.	3.6	29
17	Dynamic taste responses of parabrachial pontine neurons in awake rats. Journal of Neurophysiology, 2016, 115, 1314-1323.	1.8	23
18	Preexposure to salty and sour taste enhances conditioned taste aversion to novel sucrose. Learning and Memory, 2016, 23, 221-228.	1.3	16

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19	Editorial overview: Systems neuroscience 2016. Current Opinion in Neurobiology, 2016, 40, iv-vi.	4.2	0
20	Memory Retrieval Has a Dynamic Influence on the Maintenance Mechanisms That Are Sensitive to Î¶-Inhibitory Peptide (ZIP). Journal of Neuroscience, 2016, 36, 10654-10662.	3.6	16
21	The Behavioral Relevance of Cortical Neural Ensemble Responses Emerges Suddenly. Journal of Neuroscience, 2016, 36, 655-669.	3.6	76
22	A Multisensory Network for Olfactory Processing. Current Biology, 2015, 25, 2642-2650.	3.9	61
23	Local Field Potentials in the Gustatory Cortex Carry Taste Information. Journal of Neuroscience, 2014, 34, 8778-8787.	3.6	16
24	Licking Microstructure Reveals Rapid Attenuation of Neophobia. Chemical Senses, 2014, 39, 203-213.	2.0	22
25	Sensory Cortical Population Dynamics Uniquely Track Behavior across Learning and Extinction. Journal of Neuroscience, 2014, 34, 1248-1257.	3.6	61
26	Accuracy and response-time distributions for decision-making: linear perfect integrators versus nonlinear attractor-based neural circuits. Journal of Computational Neuroscience, 2013, 35, 261-294.	1.0	43
27	Lateral Hypothalamus Contains Two Types of Palatability-Related Taste Responses with Distinct Dynamics. Journal of Neuroscience, 2013, 33, 9462-9473.	3.6	59
28	Neural dynamics in response to binary taste mixtures. Journal of Neurophysiology, 2013, 109, 2108-2117.	1.8	47
29	Haloperidol-induced changes in neuronal activity in the striatum of the freely moving rat. Frontiers in Systems Neuroscience, 2013, 7, 110.	2.5	30
30	Inactivation of Basolateral Amygdala Specifically Eliminates Palatability-Related Information in Cortical Sensory Responses. Journal of Neuroscience, 2012, 32, 9981-9991.	3.6	100
31	Sodium Concentration Coding Gives Way to Evaluative Coding in Cortex and Amygdala. Journal of Neuroscience, 2012, 32, 9999-10011.	3.6	90
32	Genetically Induced Cholinergic Hyper-Innervation Enhances Taste Learning. Frontiers in Systems Neuroscience, 2011, 5, 97.	2.5	15
33	Stochastic Transitions between States of Neural Activity. , 2011, , 29-46.		5
34	Stochastic Transitions between Neural States in Taste Processing and Decision-Making. Journal of Neuroscience, 2010, 30, 2559-2570.	3.6	105
35	Cortical Networks Produce Three Distinct 7â€“12 Hz Rhythms during Single Sensory Responses in the Awake Rat. Journal of Neuroscience, 2010, 30, 4315-4324.	3.6	40
36	Distinct Subtypes of Basolateral Amygdala Taste Neurons Reflect Palatability and Reward. Journal of Neuroscience, 2009, 29, 2486-2495.	3.6	112

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37	Behavioral States, Network States, and Sensory Response Variability. Journal of Neurophysiology, 2008, 100, 1160-1168.	1.8	187
38	Learning-Related Plasticity of Temporal Coding in Simultaneously Recorded Amygdalaâ€“Cortical Ensembles. Journal of Neuroscience, 2008, 28, 2864-2873.	3.6	149
39	Receptors, Circuits, and Behaviors: New Directions in Chemical Senses. Journal of Neuroscience, 2008, 28, 11802-11805.	3.6	11
40	Natural stimuli evoke dynamic sequences of states in sensory cortical ensembles. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18772-18777.	7.1	256
41	The EJC Factor eIF4AIII Modulates Synaptic Strength and Neuronal Protein Expression. Cell, 2007, 130, 179-191.	28.9	278
42	State-Dependent Modulation of Time-Varying Gustatory Responses. Journal of Neurophysiology, 2006, 96, 3183-3193.	1.8	111
43	Gustatory processing: a dynamic systems approach. Current Opinion in Neurobiology, 2006, 16, 420-428.	4.2	74
44	7 to 12 Hz Activity in Rat Gustatory Cortex Reflects Disengagement From a Fluid Self-Administration Task. Journal of Neurophysiology, 2005, 93, 2832-2840.	1.8	65
45	The Many Flavors of Temporal Coding in Gustatory Cortex. Chemical Senses, 2005, 30, i80-i81.	2.0	11
46	Taste-Specific Neuronal Ensembles in the Gustatory Cortex of Awake Rats. Journal of Neuroscience, 2002, 22, 1850-1857.	3.6	95
47	Gustatory processing is dynamic and distributed. Current Opinion in Neurobiology, 2002, 12, 448-454.	4.2	105
48	Dynamic and Multimodal Responses of Gustatory Cortical Neurons in Awake Rats. Journal of Neuroscience, 2001, 21, 4478-4489.	3.6	283
49	Electrophysiological Studies of Gustation in Awake Rats. Frontiers in Neuroscience, 2001, , .	0.0	6