Alfredo Fontanini

List of Publications by Year
in descending order

44	2,998	172457	233421
papers	citations	29 h-index	45 g-index

51	51	51	2382
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metastable dynamics of neural circuits and networks. Applied Physics Reviews, 2022, 9, 011313.	11.3	25
2	Spatially Distributed Representation of Taste Quality in the Gustatory Insular Cortex of Behaving Mice. Current Biology, 2021, 31, 247-256.e4.	3.9	47
3	Layer- and Cell Type-Specific Response Properties of Gustatory Cortex Neurons in Awake Mice. Journal of Neuroscience, 2020, 40, 9676-9691.	3.6	14
4	Dynamic Representation of Taste-Related Decisions in the Gustatory Insular Cortex of Mice. Current Biology, 2020, 30, 1834-1844.e5.	3.9	39
5	Synaptic Integration of Thalamic and Limbic Inputs in Rodent Gustatory Cortex. ENeuro, 2020, 7, ENEURO.0199-19.2019.	1.9	10
6	LTD at amygdalocortical synapses as a novel mechanism for hedonic learning. ELife, 2020, 9, .	6.0	19
7	Cortical computations via metastable activity. Current Opinion in Neurobiology, 2019, 58, 37-45.	4.2	40
8	Central taste anatomy and physiology. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2019, 164, 187-204.	1.8	42
9	Expectation-induced modulation of metastable activity underlies faster coding of sensory stimuli. Nature Neuroscience, 2019, 22, 787-796.	14.8	65
10	Disruption of Cortical Dopaminergic Modulation Impairs Preparatory Activity and Delays Licking Initiation. Cerebral Cortex, 2019, 29, 1802-1815.	2.9	12
11	Gustation and Olfaction: The Importance of Place andÂTime. Current Biology, 2019, 29, R18-R20.	3.9	5
12	Processing of Intraoral Olfactory and Gustatory Signals in the Gustatory Cortex of Awake Rats. Journal of Neuroscience, 2017, 37, 244-257.	3.6	57
13	Rapid plasticity of visually evoked responses in rat monocular visual cortex. PLoS ONE, 2017, 12, e0184618.	2.5	9
14	Associative learning changes cross-modal representations in the gustatory cortex. ELife, 2016, 5, .	6.0	70
15	Stimuli Reduce the Dimensionality of Cortical Activity. Frontiers in Systems Neuroscience, 2016, 10, 11.	2.5	98
16	A gustocentric perspective to understanding primary sensory cortices. Current Opinion in Neurobiology, 2016, 40, 118-124.	4.2	32
17	Laminar- and Target-Specific Amygdalar Inputs in Rat Primary Gustatory Cortex. Journal of Neuroscience, 2016, 36, 2623-2637.	3.6	40
18	Dynamics of Multistable States during Ongoing and Evoked Cortical Activity. Journal of Neuroscience, 2015, 35, 8214-8231.	3.6	110

#	Article	IF	Citations
19	State Dependency of Chemosensory Coding in the Gustatory Thalamus (VPMpc) of Alert Rats. Journal of Neuroscience, 2015, 35, 15479-15491.	3.6	29
20	Central role for the insular cortex in mediating conditioned responses to anticipatory cues. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1190-1195.	7.1	92
21	Encoding and Tracking of Outcome-Specific Expectancy in the Gustatory Cortex of Alert Rats. Journal of Neuroscience, 2014, 34, 13000-13017.	3.6	75
22	Functional neuromodulation of chemosensation in vertebrates. Current Opinion in Neurobiology, 2014, 29, 82-87.	4.2	33
23	Thalamic Contribution to Cortical Processing of Taste and Expectation. Journal of Neuroscience, 2013, 33, 1815-1827.	3.6	56
24	Processing of Hedonic and Chemosensory Features of Taste in Medial Prefrontal and Insular Networks. Journal of Neuroscience, 2013, 33, 18966-18978.	3.6	104
25	Experience-Dependent Switch in Sign and Mechanisms for Plasticity in Layer 4 of Primary Visual Cortex. Journal of Neuroscience, 2012, 32, 10562-10573.	3.6	35
26	Effects of Cue-Triggered Expectation on Cortical Processing of Taste. Neuron, 2012, 74, 410-422.	8.1	133
27	Neural processing of gustatory information in insular circuits. Current Opinion in Neurobiology, 2012, 22, 709-716.	4.2	117
28	Visual Experience Modulates Spatio-Temporal Dynamics of Circuit Activation. Frontiers in Cellular Neuroscience, 2011, 5, 12.	3.7	9
29	Amygdala Stimulation Evokes Time-Varying Synaptic Responses in the Gustatory Cortex of Anesthetized Rats. Frontiers in Integrative Neuroscience, 2011, 5, 3.	2.1	21
30	Hidden Markov Models for the Stimulus-Response Relationships of Multistate Neural Systems. Neural Computation, 2011, 23, 1071-1132.	2.2	57
31	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
32	Distinct Subtypes of Basolateral Amygdala Taste Neurons Reflect Palatability and Reward. Journal of Neuroscience, 2009, 29, 2486-2495.	3.6	112
33	Network homeostasis: a matter of coordination. Current Opinion in Neurobiology, 2009, 19, 168-173.	4.2	99
34	Behavioral Modulation of Gustatory Cortical Activity. Annals of the New York Academy of Sciences, 2009, 1170, 403-406.	3.8	20
35	Behavioral States, Network States, and Sensory Response Variability. Journal of Neurophysiology, 2008, 100, 1160-1168.	1.8	187
36	Learning-Related Plasticity of Temporal Coding in Simultaneously Recorded Amygdalaâ€“Cortical Ensembles. Journal of Neuroscience, 2008, 28, 2864-2873.	3.6	149

#	Article	IF	Citations
37	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
38	Slow-waves in the olfactory system: an olfactory perspective on cortical rhythms. Trends in Neurosciences, 2006, 29, 429-437.	8.6	123
39	State-Dependent Modulation of Time-Varying Gustatory Responses. Journal of Neurophysiology, 2006, 96, 3183-3193.	1.8	111
40	Gustatory processing: a dynamic systems approach. Current Opinion in Neurobiology, 2006, 16, 420-428.	4.2	74
41	Temporary basolateral amygdala lesions disrupt acquisition of socially transmitted food preferences in rats. Learning and Memory, 2006, 13, 794-800.	1.3	38
42	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
43	Variable Coupling Between Olfactory System Activity and Respiration in Ketamine/Xylazine Anesthetized Rats. Journal of Neurophysiology, 2005, 93, 3573-3581.	1.8	66
44	Ketamine-Xylazine-Induced Slow (< 1.5 Hz) Oscillations in the Rat Piriform (Olfactory) Cortex Are Functionally Correlated with Respiration. Journal of Neuroscience, 2003, 23, 7993-8001.	3.6	142