

# Alfredo Fontanini

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9365472/publications.pdf>

Version: 2024-02-01

44  
papers

2,998  
citations

172457

29  
h-index

233421

45  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2382  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Behavioral States, Network States, and Sensory Response Variability. Journal of Neurophysiology, 2008, 100, 1160-1168.	1.8	187
3	Learning-Related Plasticity of Temporal Coding in Simultaneously Recorded Amygdala-Cortical Ensembles. Journal of Neuroscience, 2008, 28, 2864-2873.	3.6	149
4	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
5	Effects of Cue-Triggered Expectation on Cortical Processing of Taste. Neuron, 2012, 74, 410-422.	8.1	133
6	Slow-waves in the olfactory system: an olfactory perspective on cortical rhythms. Trends in Neurosciences, 2006, 29, 429-437.	8.6	123
7	Neural processing of gustatory information in insular circuits. Current Opinion in Neurobiology, 2012, 22, 709-716.	4.2	117
8	Distinct Subtypes of Basolateral Amygdala Taste Neurons Reflect Palatability and Reward. Journal of Neuroscience, 2009, 29, 2486-2495.	3.6	112
9	State-Dependent Modulation of Time-Varying Gustatory Responses. Journal of Neurophysiology, 2006, 96, 3183-3193.	1.8	111
10	Dynamics of Multistable States during Ongoing and Evoked Cortical Activity. Journal of Neuroscience, 2015, 35, 8214-8231.	3.6	110
11	Processing of Hedonic and Chemosensory Features of Taste in Medial Prefrontal and Insular Networks. Journal of Neuroscience, 2013, 33, 18966-18978.	3.6	104
12	Network homeostasis: a matter of coordination. Current Opinion in Neurobiology, 2009, 19, 168-173.	4.2	99
13	Stimuli Reduce the Dimensionality of Cortical Activity. Frontiers in Systems Neuroscience, 2016, 10, 11.	2.5	98
14	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
15	Encoding and Tracking of Outcome-Specific Expectancy in the Gustatory Cortex of Alert Rats. Journal of Neuroscience, 2014, 34, 13000-13017.	3.6	75
16	Gustatory processing: a dynamic systems approach. Current Opinion in Neurobiology, 2006, 16, 420-428.	4.2	74
17	Associative learning changes cross-modal representations in the gustatory cortex. ELife, 2016, 5, .	6.0	70
18	Variable Coupling Between Olfactory System Activity and Respiration in Ketamine/Xylazine Anesthetized Rats. Journal of Neurophysiology, 2005, 93, 3573-3581.	1.8	66

#	ARTICLE	IF	CITATIONS
19	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
20	Expectation-induced modulation of metastable activity underlies faster coding of sensory stimuli. <i>Nature Neuroscience</i> , 2019, 22, 787-796.	14.8	65
21	Hidden Markov Models for the Stimulus-Response Relationships of Multistate Neural Systems. <i>Neural Computation</i> , 2011, 23, 1071-1132.	2.2	57
22	Processing of Intraoral Olfactory and Gustatory Signals in the Gustatory Cortex of Awake Rats. <i>Journal of Neuroscience</i> , 2017, 37, 244-257.	3.6	57
23	Thalamic Contribution to Cortical Processing of Taste and Expectation. <i>Journal of Neuroscience</i> , 2013, 33, 1815-1827.	3.6	56
24	Spatially Distributed Representation of Taste Quality in the Gustatory Insular Cortex of Behaving Mice. <i>Current Biology</i> , 2021, 31, 247-256.e4.	3.9	47
25	Central taste anatomy and physiology. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2019, 164, 187-204.	1.8	42
26	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
27	Laminar- and Target-Specific Amygdalar Inputs in Rat Primary Gustatory Cortex. <i>Journal of Neuroscience</i> , 2016, 36, 2623-2637.	3.6	40
28	Cortical computations via metastable activity. <i>Current Opinion in Neurobiology</i> , 2019, 58, 37-45.	4.2	40
29	Dynamic Representation of Taste-Related Decisions in the Gustatory Insular Cortex of Mice. <i>Current Biology</i> , 2020, 30, 1834-1844.e5.	3.9	39
30	Temporary basolateral amygdala lesions disrupt acquisition of socially transmitted food preferences in rats. <i>Learning and Memory</i> , 2006, 13, 794-800.	1.3	38
31	Experience-Dependent Switch in Sign and Mechanisms for Plasticity in Layer 4 of Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2012, 32, 10562-10573.	3.6	35
32	Functional neuromodulation of chemosensation in vertebrates. <i>Current Opinion in Neurobiology</i> , 2014, 29, 82-87.	4.2	33
33	A gustocentric perspective to understanding primary sensory cortices. <i>Current Opinion in Neurobiology</i> , 2016, 40, 118-124.	4.2	32
34	State Dependency of Chemosensory Coding in the Gustatory Thalamus (VPMpc) of Alert Rats. <i>Journal of Neuroscience</i> , 2015, 35, 15479-15491.	3.6	29
35	Metastable dynamics of neural circuits and networks. <i>Applied Physics Reviews</i> , 2022, 9, 011313.	11.3	25
36	Amygdala Stimulation Evokes Time-Varying Synaptic Responses in the Gustatory Cortex of Anesthetized Rats. <i>Frontiers in Integrative Neuroscience</i> , 2011, 5, 3.	2.1	21

#	ARTICLE	IF	CITATIONS
37	Behavioral Modulation of Gustatory Cortical Activity. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 403-406.	3.8	20
38	LTD at amygdalocortical synapses as a novel mechanism for hedonic learning. <i>ELife</i> , 2020, 9, .	6.0	19
39	Layer- and Cell Type-Specific Response Properties of Gustatory Cortex Neurons in Awake Mice. <i>Journal of Neuroscience</i> , 2020, 40, 9676-9691.	3.6	14
40	Disruption of Cortical Dopaminergic Modulation Impairs Preparatory Activity and Delays Licking Initiation. <i>Cerebral Cortex</i> , 2019, 29, 1802-1815.	2.9	12
41	Synaptic Integration of Thalamic and Limbic Inputs in Rodent Gustatory Cortex. <i>ENeuro</i> , 2020, 7, ENEURO.0199-19.2019.	1.9	10
42	Visual Experience Modulates Spatio-Temporal Dynamics of Circuit Activation. <i>Frontiers in Cellular Neuroscience</i> , 2011, 5, 12.	3.7	9
43	Rapid plasticity of visually evoked responses in rat monocular visual cortex. <i>PLoS ONE</i> , 2017, 12, e0184618.	2.5	9
44	Gustation and Olfaction: The Importance of Place and Time. <i>Current Biology</i> , 2019, 29, R18-R20.	3.9	5