Naoshige Uchida

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Neuron-type-specific signals for reward and punishment in the ventral tegmental area. Nature, 2012, 482, 85-88.	13.7	1,101
2	Whole-Brain Mapping of Direct Inputs to Midbrain Dopamine Neurons. Neuron, 2012, 74, 858-873.	3.8	1,044
3	Neural correlates, computation and behavioural impact of decision confidence. Nature, 2008, 455, 227-231.	13.7	720
4	Speed and accuracy of olfactory discrimination in the rat. Nature Neuroscience, 2003, 6, 1224-1229.	7.1	618
5	An excitatory paraventricular nucleus to AgRP neuron circuit that drives hunger. Nature, 2014, 507, 238-242.	13.7	526
6	The catenin/cadherin adhesion system is localized in synaptic junctions bordering transmitter release zones Journal of Cell Biology, 1996, 135, 767-779.	2.3	489
7	Odor maps in the mammalian olfactory bulb: domain organization and odorant structural features. Nature Neuroscience, 2000, 3, 1035-1043.	7.1	455
8	Demixed principal component analysis of neural population data. ELife, 2016, 5, .	2.8	397
9	α-Catenin-Vinculin Interaction Functions to Organize the Apical Junctional Complex in Epithelial Cells. Journal of Cell Biology, 1998, 142, 847-857.	2.3	324
10	Arithmetic and local circuitry underlying dopamine prediction errors. Nature, 2015, 525, 243-246.	13.7	297
11	Functional circuit architecture underlying parental behaviour. Nature, 2018, 556, 326-331.	13.7	290
12	Serotonergic neurons signal reward and punishment on multiple timescales. ELife, 2015, 4, .	2.8	282
13	The Sniff as a Unit of Olfactory Processing. Chemical Senses, 2006, 31, 167-179.	1.1	275
14	Neural Circuitry of Reward Prediction Error. Annual Review of Neuroscience, 2017, 40, 373-394.	5.0	273
15	A distributional code for value in dopamine-based reinforcement learning. Nature, 2020, 577, 671-675.	13.7	262
16	Dopamine neurons projecting to the posterior striatum reinforce avoidance of threatening stimuli. Nature Neuroscience, 2018, 21, 1421-1430.	7.1	258
17	Robust Odor Coding via Inhalation-Coupled Transient Activity in the Mammalian Olfactory Bulb. Neuron, 2010, 68, 570-585.	3.8	256
18	Dopamine neurons projecting to the posterior striatum form an anatomically distinct subclass. ELife, 2015, 4, e10032.	2.8	245

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19	Representation of Spatial Goals in Rat Orbitofrontal Cortex. Neuron, 2006, 51, 495-507.	3.8	242
20	Dopamine neurons share common response function for reward prediction error. Nature Neuroscience, 2016, 19, 479-486.	7.1	241
21	Cadherin-11 Expressed in Association with Mesenchymal Morphogenesis in the Head, Somite, and Limb Bud of Early Mouse Embryos. Developmental Biology, 1995, 169, 347-358.	0.9	237
22	Synchronized Oscillatory Discharges of Mitral/Tufted Cells With Different Molecular Receptive Ranges in the Rabbit Olfactory Bulb. Journal of Neurophysiology, 1999, 82, 1786-1792.	0.9	233
23	Organization of Monosynaptic Inputs to the Serotonin and Dopamine Neuromodulatory Systems. Cell Reports, 2014, 8, 1105-1118.	2.9	213
24	Seeing at a glance, smelling in a whiff: rapid forms of perceptual decision making. Nature Reviews Neuroscience, 2006, 7, 485-491.	4.9	195
25	Distributed and Mixed Information in Monosynaptic Inputs to Dopamine Neurons. Neuron, 2016, 91, 1374-1389.	3.8	195
26	Opposite initialization to novel cues in dopamine signaling in ventral and posterior striatum in mice. ELife, 2017, 6, .	2.8	192
27	Odor Representations in Olfactory Cortex: Distributed Rate Coding and Decorrelated Population Activity. Neuron, 2012, 74, 1087-1098.	3.8	191
28	Rapid and Precise Control of Sniffing During Olfactory Discrimination in Rats. Journal of Neurophysiology, 2007, 98, 205-213.	0.9	187
29	Olfactory cortical neurons read out a relative time code in the olfactory bulb. Nature Neuroscience, 2013, 16, 949-957.	7.1	186
30	A wireless multi-channel neural amplifier for freely moving animals. Nature Neuroscience, 2011, 14, 263-269.	7.1	161
31	A Unified Framework for Dopamine Signals across Timescales. Cell, 2020, 183, 1600-1616.e25.	13.5	161
32	Believing in dopamine. Nature Reviews Neuroscience, 2019, 20, 703-714.	4.9	156
33	Dopamine reward prediction errors reflect hidden-state inference across time. Nature Neuroscience, 2017, 20, 581-589.	7.1	152
34	Loss of Cadherin-11 Adhesion Receptor Enhances Plastic Changes in Hippocampal Synapses and Modifies Behavioral Responses. Molecular and Cellular Neurosciences, 2000, 15, 534-546.	1.0	151
35	Somatosensory Cortex Plays an Essential Role in Forelimb Motor Adaptation in Mice. Neuron, 2017, 93, 1493-1503.e6.	3.8	144
36	Habenula Lesions Reveal that Multiple Mechanisms Underlie Dopamine Prediction Errors. Neuron, 2015, 87, 1304-1316.	3.8	143

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37	Coding and Transformations in the Olfactory System. Annual Review of Neuroscience, 2014, 37, 363-385.	5.0	134
38	The dorsomedial striatum encodes net expected return, critical for energizing performance vigor. Nature Neuroscience, 2013, 16, 639-647.	7.1	114
39	Sensory-Evoked Intrinsic Optical Signals in the Olfactory Bulb Are Coupled to Glutamate Release and Uptake. Neuron, 2006, 52, 335-345.	3.8	106
40	The Medial Prefrontal Cortex Shapes Dopamine Reward Prediction Errors under State Uncertainty. Neuron, 2018, 98, 616-629.e6.	3.8	100
41	Midbrain dopamine neurons signal aversion in a reward-context-dependent manner. ELife, 2016, 5, .	2.8	88
42	Belief state representation in the dopamine system. Nature Communications, 2018, 9, 1891.	5.8	75
43	Mouse αN-Catenin: Two Isoforms, Specific Expression in the Nervous System, and Chromosomal Localization of the Gene. Developmental Biology, 1994, 163, 75-85.	0.9	72
44	The Limits of Deliberation in a Perceptual Decision Task. Neuron, 2013, 78, 339-351.	3.8	72
45	Reinforcement biases subsequent perceptual decisions when confidence is low, a widespread behavioral phenomenon. ELife, 2020, 9, .	2.8	71
46	A defined network of fast-spiking interneurons in orbitofrontal cortex: responses to behavioral contingencies and ketamine administration. Frontiers in Systems Neuroscience, 2009, 3, 13.	1.2	65
47	Distinct temporal difference error signals in dopamine axons in three regions of the striatum in a decision-making task. ELife, 2020, 9, .	2.8	58
48	Multiple Dopamine Systems: Weal and Woe of Dopamine. Cold Spring Harbor Symposia on Quantitative Biology, 2018, 83, 83-95.	2.0	49
49	Distributional Reinforcement Learning in the Brain. Trends in Neurosciences, 2020, 43, 980-997.	4.2	44
50	Odor concentration invariance by chemical ratio coding. Frontiers in Systems Neuroscience, 2008, 1, 3.	1.2	41
51	A gradual temporal shift of dopamine responses mirrors the progression of temporal difference error in machine learning. Nature Neuroscience, 2022, 25, 1082-1092.	7.1	32
52	The role of state uncertainty in the dynamics of dopamine. Current Biology, 2022, 32, 1077-1087.e9.	1.8	29
53	Dopamine signals as temporal difference errors: recent advances. Current Opinion in Neurobiology, 2021, 67, 95-105.	2.0	26
54	Illuminating Vertebrate Olfactory Processing. Journal of Neuroscience, 2012, 32, 14102-14108a.	1.7	25

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55	Bilingual neurons release glutamate and GABA. Nature Neuroscience, 2014, 17, 1432-1434.	7.1	12
56	Opening the black box: dopamine, predictions, and learning. Trends in Cognitive Sciences, 2013, 17, 430-431.	4.0	11
57	Division of Labor for Division: Inhibitory Interneurons with Different Spatial Landscapes in the Olfactory System. Neuron, 2013, 80, 1106-1109.	3.8	11
58	A rate-independent measure of irregularity for event series and its application to neural spiking activity. , 2008, , .		5
59	Slow motion. ELife, 2017, 6, .	2.8	4
60	Editorial overview: Neurobiology of behavior. Current Opinion in Neurobiology, 2018, 49, iv-ix.	2.0	2
61	Monkeys in a Prisoner's Dilemma. Cell, 2015, 160, 1046-1048.	13.5	1
62	A Self-Killing Rabies Virus That Leaves a Trace on the DNA. Trends in Neurosciences, 2017, 40, 589-591.	4.2	1