

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

9,746
citations

45
h-index

98
g-index

124
ext. papers

12,137
ext. citations

9.5
avg, IF

6.93
L-index

#	Paper	IF	Citations
100	Uncertainty-based competition between prefrontal and dorsolateral striatal systems for behavioral control. <i>Nature Neuroscience</i> , 2005 , 8, 1704-11	25.5	1688
99	Tonic dopamine: opportunity costs and the control of response vigor. <i>Psychopharmacology</i> , 2007 , 191, 507-20	4.7	765
98	Reinforcement learning: the good, the bad and the ugly. <i>Current Opinion in Neurobiology</i> , 2008 , 18, 185-966		592
97	Orbitofrontal cortex as a cognitive map of task space. <i>Neuron</i> , 2014 , 81, 267-279	13.9	479
96	Reinforcement learning in the brain. <i>Journal of Mathematical Psychology</i> , 2009 , 53, 139-154	1.2	368
95	Hierarchically organized behavior and its neural foundations: a reinforcement learning perspective. <i>Cognition</i> , 2009 , 113, 262-280	3.5	356
94	From fear to safety and back: reversal of fear in the human brain. <i>Journal of Neuroscience</i> , 2008 , 28, 11517-25	17.25	356
93	The effects of neural gain on attention and learning. <i>Nature Neuroscience</i> , 2013 , 16, 1146-53	25.5	271
92	Dialogues on prediction errors. <i>Trends in Cognitive Sciences</i> , 2008 , 12, 265-72	14	253
91	Human Orbitofrontal Cortex Represents a Cognitive Map of State Space. <i>Neuron</i> , 2016 , 91, 1402-1412	13.9	240
90	A normative perspective on motivation. <i>Trends in Cognitive Sciences</i> , 2006 , 10, 375-81	14	234
89	Context, learning, and extinction. <i>Psychological Review</i> , 2010 , 117, 197-209	6.3	203
88	Expectancy-related changes in firing of dopamine neurons depend on orbitofrontal cortex. <i>Nature Neuroscience</i> , 2011 , 14, 1590-7	25.5	193
87	Neural prediction errors reveal a risk-sensitive reinforcement-learning process in the human brain. <i>Journal of Neuroscience</i> , 2012 , 32, 551-62	6.6	191
86	Reinforcement learning in multidimensional environments relies on attention mechanisms. <i>Journal of Neuroscience</i> , 2015 , 35, 8145-57	6.6	186
85	Ventral striatum and orbitofrontal cortex are both required for model-based, but not model-free, reinforcement learning. <i>Journal of Neuroscience</i> , 2011 , 31, 2700-5	6.6	171
84	Learning latent structure: carving nature at its joints. <i>Current Opinion in Neurobiology</i> , 2010 , 20, 251-6	7.6	160

83	Rethinking Extinction. <i>Neuron</i> , 2015 , 88, 47-63	13.9	157
82	The impact of orbitofrontal dysfunction on cocaine addiction. <i>Nature Neuroscience</i> , 2012 , 15, 358-66	25.5	152
81	Dynamic Interaction between Reinforcement Learning and Attention in Multidimensional Environments. <i>Neuron</i> , 2017 , 93, 451-463	13.9	143
80	Dopamine transients are sufficient and necessary for acquisition of model-based associations. <i>Nature Neuroscience</i> , 2017 , 20, 735-742	25.5	132
79	Mood as Representation of Momentum. <i>Trends in Cognitive Sciences</i> , 2016 , 20, 15-24	14	128
78	Computational approaches to fMRI analysis. <i>Nature Neuroscience</i> , 2017 , 20, 304-313	25.5	126
77	A neural signature of hierarchical reinforcement learning. <i>Neuron</i> , 2011 , 71, 370-9	13.9	126
76	Cost, benefit, tonic, phasic: what do response rates tell us about dopamine and motivation?. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1104, 357-76	6.5	106
75	Sequential replay of nonspatial task states in the human hippocampus. <i>Science</i> , 2019 , 364,	33.3	93
74	Inferring relevance in a changing world. <i>Frontiers in Human Neuroscience</i> , 2011 , 5, 189	3.3	83
73	Learning task-state representations. <i>Nature Neuroscience</i> , 2019 , 22, 1544-1553	25.5	82
72	Interaction between emotional state and learning underlies mood instability. <i>Nature Communications</i> , 2015 , 6, 6149	17.4	75
71	Exploring a latent cause theory of classical conditioning. <i>Learning and Behavior</i> , 2012 , 40, 255-68	1.3	74
70	Neural and psychological maturation of decision-making in adolescence and young adulthood. <i>Journal of Cognitive Neuroscience</i> , 2013 , 25, 1807-23	3.1	73
69	Discovering latent causes in reinforcement learning. <i>Current Opinion in Behavioral Sciences</i> , 2015 , 5, 43-50		72
68	Gradual extinction prevents the return of fear: implications for the discovery of state. <i>Frontiers in Behavioral Neuroscience</i> , 2013 , 7, 164	3.5	71
67	Model-based predictions for dopamine. <i>Current Opinion in Neurobiology</i> , 2018 , 49, 1-7	7.6	70
66	Temporal Specificity of Reward Prediction Errors Signaled by Putative Dopamine Neurons in Rat VTA Depends on Ventral Striatum. <i>Neuron</i> , 2016 , 91, 182-93	13.9	66

65	Lateral Hypothalamic GABAergic Neurons Encode Reward Predictions that Are Relayed to the Ventral Tegmental Area to Regulate Learning. <i>Current Biology</i> , 2017 , 27, 2089-2100.e5	6.3	65
64	Optimal behavioral hierarchy. <i>PLoS Computational Biology</i> , 2014 , 10, e1003779	5	60
63	Hierarchical learning induces two simultaneous, but separable, prediction errors in human basal ganglia. <i>Journal of Neuroscience</i> , 2013 , 33, 5797-805	6.6	57
62	The computational nature of memory modification. <i>ELife</i> , 2017 , 6,	8.9	51
61	Is Model Fitting Necessary for Model-Based fMRI?. <i>PLoS Computational Biology</i> , 2015 , 11, e1004237	5	50
60	Dissociable effects of surprising rewards on learning and memory. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2018 , 44, 1430-1443	2.2	47
59	Explaining compound generalization in associative and causal learning through rational principles of dimensional generalization. <i>Psychological Review</i> , 2014 , 121, 526-58	6.3	46
58	Does mental context drift or shift?. <i>Current Opinion in Behavioral Sciences</i> , 2017 , 17, 141-146	4	45
57	Statistical computations underlying the dynamics of memory updating. <i>PLoS Computational Biology</i> , 2014 , 10, e1003939	5	45
56	A Probability Distribution over Latent Causes, in the Orbitofrontal Cortex. <i>Journal of Neuroscience</i> , 2016 , 36, 7817-28	6.6	44
55	Novelty and Inductive Generalization in Human Reinforcement Learning. <i>Topics in Cognitive Science</i> , 2015 , 7, 391-415	2.5	42
54	An Integrated Model of Action Selection: Distinct Modes of Cortical Control of Striatal Decision Making. <i>Annual Review of Psychology</i> , 2019 , 70, 53-76	26.1	42
53	Holistic Reinforcement Learning: The Role of Structure and Attention. <i>Trends in Cognitive Sciences</i> , 2019 , 23, 278-292	14	39
52	Rat Orbitofrontal Ensemble Activity Contains Multiplexed but Dissociable Representations of Value and Task Structure in an Odor Sequence Task. <i>Current Biology</i> , 2019 , 29, 897-907.e3	6.3	34
51	Perceptual estimation obeys Occam's razor. <i>Frontiers in Psychology</i> , 2013 , 4, 623	3.4	26
50	Do You See the Forest or the Tree? Neural Gain and Breadth Versus Focus in Perceptual Processing. <i>Psychological Science</i> , 2016 , 27, 1632-1643	7.9	25
49	Dopamine transients do not act as model-free prediction errors during associative learning. <i>Nature Communications</i> , 2020 , 11, 106	17.4	22
48	Reinforcement learning with Marr. <i>Current Opinion in Behavioral Sciences</i> , 2016 , 11, 67-73	4	22

47	The Two Cultures of Computational Psychiatry. <i>JAMA Psychiatry</i> , 2019 , 76, 563-564	14.5	21
46	Reward prediction errors create event boundaries in memory. <i>Cognition</i> , 2020 , 203, 104269	3.5	21
45	Complementary Task Structure Representations in Hippocampus and Orbitofrontal Cortex during an Odor Sequence Task. <i>Current Biology</i> , 2019 , 29, 3402-3409.e3	6.3	20
44	Representational structure or task structure? Bias in neural representational similarity analysis and a Bayesian method for reducing bias. <i>PLoS Computational Biology</i> , 2019 , 15, e1006299	5	20
43	The case against economic values in the orbitofrontal cortex (or anywhere else in the brain). <i>Behavioral Neuroscience</i> , 2021 , 135, 192-201	2.1	17
42	The primacy of behavioral research for understanding the brain. <i>Behavioral Neuroscience</i> , 2021 , 135, 601-609	2.1	17
41	A State Representation for Reinforcement Learning and Decision-Making in the Orbitofrontal Cortex 2018 , 259-278		16
40	How did the chicken cross the road? With her striatal cholinergic interneurons, of course. <i>Neuron</i> , 2013 , 79, 3-6	13.9	14
39	Parkinson's disease: fighting the will?. <i>Journal of Neuroscience</i> , 2007 , 27, 11777-9	6.6	14
38	Depressive symptoms bias the prediction-error enhancement of memory towards negative events in reinforcement learning. <i>Psychopharmacology</i> , 2019 , 236, 2425-2435	4.7	13
37	A Bayesian method for reducing bias in neural representational similarity analysis		13
36	The effects of aging on the interaction between reinforcement learning and attention. <i>Psychology and Aging</i> , 2016 , 31, 747-757	3.6	12
35	The State of the Orbitofrontal Cortex. <i>Neuron</i> , 2015 , 88, 1075-1077	13.9	12
34	The effects of motivation on response rate: a hidden semi-Markov model analysis of behavioral dynamics. <i>Journal of Neuroscience Methods</i> , 2011 , 201, 251-61	3	12
33	Model-based decision making and model-free learning. <i>Current Biology</i> , 2020 , 30, R860-R865	6.3	11
32	Neural Signatures of Prediction Errors in a Decision-Making Task Are Modulated by Action Execution Failures. <i>Current Biology</i> , 2019 , 29, 1606-1613.e5	6.3	9
31	DYT1 dystonia increases risk taking in humans. <i>ELife</i> , 2016 , 5,	8.9	9
30	Signed and unsigned reward prediction errors dynamically enhance learning and memory. <i>ELife</i> , 2021 , 10,	8.9	8

29	The primacy of behavioral research for understanding the brain		7
28	Intact Reinforcement Learning But Impaired Attentional Control During Multidimensional Probabilistic Learning in Older Adults. <i>Journal of Neuroscience</i> , 2020 , 40, 1084-1096	6.6	7
27	Causal Model Comparison Shows That Human Representation Learning Is Not Bayesian. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2014 , 79, 161-8	3.9	6
26	Reconsolidation-Extinction Interactions in Fear Memory Attenuation: The Role of Inter-Trial Interval Variability. <i>Frontiers in Behavioral Neuroscience</i> , 2017 , 11, 2	3.5	6
25	A model of mood as integrated advantage. <i>Psychological Review</i> , 2021 ,	6.3	6
24	Uncovering the State Tracing the hidden state representations that structure learning and decision-making. <i>Behavioural Processes</i> , 2019 , 167, 103891	1.6	5
23	The case against economic values in the orbitofrontal cortex (or anywhere else in the brain)		5
22	Amplified selectivity in cognitive processing implements the neural gain model of norepinephrine function. <i>Behavioral and Brain Sciences</i> , 2016 , 39, e206	0.9	5
21	How to divide and conquer the world, one step at a time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2929-30	11.5	4
20	A model of mood as integrated advantage		4
19	Biased evaluations emerge from inferring hidden causes. <i>Nature Human Behaviour</i> , 2021 , 5, 1180-1189	12.8	4
18	State representation in mental illness. <i>Current Opinion in Neurobiology</i> , 2019 , 55, 160-166	7.6	3
17	A free-choice premium in the basal ganglia. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 4-5	14	3
16	A State Representation for Reinforcement Learning and Decision-Making in the Orbitofrontal Cortex		3
15	Dopamine transients delivered in learning contexts do not act as model-free prediction errors		3
14	Author response: The computational nature of memory modification 2017 ,		2
13	Human Representation Learning. <i>Annual Review of Neuroscience</i> , 2021 , 44, 253-273	17	2
12	Representational structure or task structure? Bias in neural representational similarity analysis and a Bayesian method for reducing bias		1

11	Rumination Derails Reinforcement Learning With Possible Implications for Ineffective Behavior. <i>Clinical Psychological Science</i> , 2021, 10, 1-10	6	1
10	The Computational Nature of Memory Modification		1
9	A recurring reproduction error in the administration of the Generalized Anxiety Disorder scale. <i>Lancet Psychiatry</i> , 2021, 8, 180-181	23.3	1
8	Value-free reinforcement learning: policy optimization as a minimal model of operant behavior. <i>Current Opinion in Behavioral Sciences</i> , 2021, 41, 114-121	4	1
7	A pupillary index of susceptibility to decision biases. <i>Nature Human Behaviour</i> , 2021, 5, 653-662	12.8	1
6	Orbitofrontal cortex and learning predictions of state transitions. <i>Behavioral Neuroscience</i> , 2021, 135, 487-497	2.1	0
5	A practical guide for studying human behavior in the lab.. <i>Behavior Research Methods</i> , 2022, 1	6.1	0
4	Feature-based reward learning biases dimensional attention. <i>Journal of Vision</i> , 2017, 17, 1297	0.4	
3	Should you trust your RSA result? A Bayesian method for reducing bias in neural representational similarity analysis.. <i>Journal of Vision</i> , 2017, 17, 571	0.4	
2	Predicting trial-by-trial attention dynamics during human reinforcement learning. <i>Journal of Vision</i> , 2017, 17, 1098	0.4	
1	Minimal cross-trial generalization in learning the representation of an odor-guided choice task.. <i>PLoS Computational Biology</i> , 2022, 18, e1009897	5	