

Michael Frank

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.

206
papers

21,932
citations

75
h-index

147
g-index

272
ext. papers

26,150
ext. citations

6.9
avg, IF

7.58
L-index

#	Paper	IF	Citations
206	By carrot or by stick: cognitive reinforcement learning in parkinsonism. <i>Science</i> , 2004 , 306, 1940-3	33.3	1442
205	Frontal theta as a mechanism for cognitive control. <i>Trends in Cognitive Sciences</i> , 2014 , 18, 414-21	14	1024
204	Hold your horses: impulsivity, deep brain stimulation, and medication in parkinsonism. <i>Science</i> , 2007 , 318, 1309-12	33.3	791
203	Triangulating a cognitive control network using diffusion-weighted magnetic resonance imaging (MRI) and functional MRI. <i>Journal of Neuroscience</i> , 2007 , 27, 3743-52	6.6	738
202	Dynamic dopamine modulation in the basal ganglia: a neurocomputational account of cognitive deficits in medicated and nonmedicated Parkinsonism. <i>Journal of Cognitive Neuroscience</i> , 2005 , 17, 51-72 ^{3.1}		685
201	Making working memory work: a computational model of learning in the prefrontal cortex and basal ganglia. <i>Neural Computation</i> , 2006 , 18, 283-328	2.9	673
200	Interactions between frontal cortex and basal ganglia in working memory: a computational model. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2001 , 1, 137-60	3.5	560
199	From reinforcement learning models to psychiatric and neurological disorders. <i>Nature Neuroscience</i> , 2011 , 14, 154-62	25.5	516
198	Genetic triple dissociation reveals multiple roles for dopamine in reinforcement learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 16311-6	11.5	492
197	Hold your horses: a dynamic computational role for the subthalamic nucleus in decision making. <i>Neural Networks</i> , 2006 , 19, 1120-36	9.1	486
196	Anatomy of a decision: striato-orbitofrontal interactions in reinforcement learning, decision making, and reversal. <i>Psychological Review</i> , 2006 , 113, 300-326	6.3	442
195	Computational psychiatry as a bridge from neuroscience to clinical applications. <i>Nature Neuroscience</i> , 2016 , 19, 404-13	25.5	439
194	HDDM: Hierarchical Bayesian estimation of the Drift-Diffusion Model in Python. <i>Frontiers in Neuroinformatics</i> , 2013 , 7, 14	3.9	399
193	Subthalamic nucleus stimulation reverses mediofrontal influence over decision threshold. <i>Nature Neuroscience</i> , 2011 , 14, 1462-7	25.5	397
192	A mechanistic account of striatal dopamine function in human cognition: psychopharmacological studies with cabergoline and haloperidol. <i>Behavioral Neuroscience</i> , 2006 , 120, 497-517	2.1	337
191	Prefrontal and striatal dopaminergic genes predict individual differences in exploration and exploitation. <i>Nature Neuroscience</i> , 2009 , 12, 1062-8	25.5	331
190	Error-related negativity predicts reinforcement learning and conflict biases. <i>Neuron</i> , 2005 , 47, 495-501	13.9	319

189	Towards an executive without a homunculus: computational models of the prefrontal cortex/basal ganglia system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007 , 362, 1601-13	5.8	285
188	Frontal theta links prediction errors to behavioral adaptation in reinforcement learning. <i>NeuroImage</i> , 2010 , 49, 3198-209	7.9	280
187	Negative symptoms of schizophrenia are associated with abnormal effort-cost computations. <i>Biological Psychiatry</i> , 2013 , 74, 130-6	7.9	273
186	Striatal dopamine predicts outcome-specific reversal learning and its sensitivity to dopaminergic drug administration. <i>Journal of Neuroscience</i> , 2009 , 29, 1538-43	6.6	273
185	Selective reinforcement learning deficits in schizophrenia support predictions from computational models of striatal-cortical dysfunction. <i>Biological Psychiatry</i> , 2007 , 62, 756-64	7.9	245
184	Cognitive control over learning: creating, clustering, and generalizing task-set structure. <i>Psychological Review</i> , 2013 , 120, 190-229	6.3	243
183	A computational model of inhibitory control in frontal cortex and basal ganglia. <i>Psychological Review</i> , 2013 , 120, 329-55	6.3	239
182	Opponent actor learning (OpAL): modeling interactive effects of striatal dopamine on reinforcement learning and choice incentive. <i>Psychological Review</i> , 2014 , 121, 337-66	6.3	234
181	Banishing the homunculus: making working memory work. <i>Neuroscience</i> , 2006 , 139, 105-18	3.9	230
180	Negative symptoms and the failure to represent the expected reward value of actions: behavioral and computational modeling evidence. <i>Archives of General Psychiatry</i> , 2012 , 69, 129-38		216
179	How much of reinforcement learning is working memory, not reinforcement learning? A behavioral, computational, and neurogenetic analysis. <i>European Journal of Neuroscience</i> , 2012 , 35, 1024-35	3.5	213
178	Impulse control disorders and levodopa-induced dyskinesias in Parkinson's disease: an update. <i>Lancet Neurology</i> , 2017 , 16, 238-250	24.1	207
177	Seeing is believing: trustworthiness as a dynamic belief. <i>Cognitive Psychology</i> , 2010 , 61, 87-105	3.1	195
176	Common medial frontal mechanisms of adaptive control in humans and rodents. <i>Nature Neuroscience</i> , 2013 , 16, 1888-1895	25.5	194
175	Mechanisms of hierarchical reinforcement learning in corticostriatal circuits 1: computational analysis. <i>Cerebral Cortex</i> , 2012 , 22, 509-26	5.1	193
174	Pupillometric and behavioral markers of a developmental shift in the temporal dynamics of cognitive control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5529-33	11.5	188
173	Single dose of a dopamine agonist impairs reinforcement learning in humans: behavioral evidence from a laboratory-based measure of reward responsiveness. <i>Psychopharmacology</i> , 2008 , 196, 221-32	4.7	183
172	Instructional control of reinforcement learning: a behavioral and neurocomputational investigation. <i>Brain Research</i> , 2009 , 1299, 74-94	3.7	182

171	Freezing of gait in Parkinson's disease is associated with functional decoupling between the cognitive control network and the basal ganglia. <i>Brain</i> , 2013 , 136, 3671-81	11.2	170
170	Rostrolateral prefrontal cortex and individual differences in uncertainty-driven exploration. <i>Neuron</i> , 2012 , 73, 595-607	13.9	169
169	Deficits in positive reinforcement learning and uncertainty-driven exploration are associated with distinct aspects of negative symptoms in schizophrenia. <i>Biological Psychiatry</i> , 2011 , 69, 424-31	7.9	164
168	Testing computational models of dopamine and noradrenaline dysfunction in attention deficit/hyperactivity disorder. <i>Neuropsychopharmacology</i> , 2007 , 32, 1583-99	8.7	161
167	Neurocomputational models of basal ganglia function in learning, memory and choice. <i>Behavioural Brain Research</i> , 2009 , 199, 141-56	3.4	159
166	An Integrative Perspective on the Role of Dopamine in Schizophrenia. <i>Biological Psychiatry</i> , 2017 , 81, 52-66	7.9	144
165	fMRI and EEG predictors of dynamic decision parameters during human reinforcement learning. <i>Journal of Neuroscience</i> , 2015 , 35, 485-94	6.6	144
164	Hippocampus, cortex, and basal ganglia: insights from computational models of complementary learning systems. <i>Neurobiology of Learning and Memory</i> , 2004 , 82, 253-67	3.1	142
163	Eye tracking and pupillometry are indicators of dissociable latent decision processes. <i>Journal of Experimental Psychology: General</i> , 2014 , 143, 1476-88	4.7	139
162	Mechanisms of hierarchical reinforcement learning in cortico-striatal circuits 2: evidence from fMRI. <i>Cerebral Cortex</i> , 2012 , 22, 527-36	5.1	136
161	A dopaminergic basis for working memory, learning and attentional shifting in Parkinsonism. <i>Neuropsychologia</i> , 2008 , 46, 3144-56	3.2	136
160	Computational models of motivated action selection in corticostriatal circuits. <i>Current Opinion in Neurobiology</i> , 2011 , 21, 381-6	7.6	134
159	Dopaminergic genes predict individual differences in susceptibility to confirmation bias. <i>Journal of Neuroscience</i> , 2011 , 31, 6188-98	6.6	132
158	Neurogenetics and pharmacology of learning, motivation, and cognition. <i>Neuropsychopharmacology</i> , 2011 , 36, 133-52	8.7	132
157	Frontal theta reflects uncertainty and unexpectedness during exploration and exploitation. <i>Cerebral Cortex</i> , 2012 , 22, 2575-86	5.1	132
156	Reinforcement-based decision making in corticostriatal circuits: mutual constraints by neurocomputational and diffusion models. <i>Neural Computation</i> , 2012 , 24, 1186-229	2.9	132
155	Understanding decision-making deficits in neurological conditions: insights from models of natural action selection. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007 , 362, 1641-54	5.8	128
154	Transitivity, flexibility, conjunctive representations, and the hippocampus. II. A computational analysis. <i>Hippocampus</i> , 2003 , 13, 341-54	3.5	128

153	Working memory contributions to reinforcement learning impairments in schizophrenia. <i>Journal of Neuroscience</i> , 2014 , 34, 13747-56	6.6	126
152	Frontal theta overrides pavlovian learning biases. <i>Journal of Neuroscience</i> , 2013 , 33, 8541-8	6.6	126
151	Motor symptoms in Parkinson's disease: A unified framework. <i>Neuroscience and Biobehavioral Reviews</i> , 2016 , 68, 727-740	9	120
150	When memory fails, intuition reigns: midazolam enhances implicit inference in humans. <i>Psychological Science</i> , 2006 , 17, 700-7	7.9	116
149	Charting the landscape of priority problems in psychiatry, part 1: classification and diagnosis. <i>Lancet Psychiatry</i> , 2016 , 3, 77-83	23.3	107
148	Corticostriatal output gating during selection from working memory. <i>Neuron</i> , 2014 , 81, 930-42	13.9	107
147	Genetic contributions to avoidance-based decisions: striatal D2 receptor polymorphisms. <i>Neuroscience</i> , 2009 , 164, 131-40	3.9	106
146	Single dose of a dopamine agonist impairs reinforcement learning in humans: evidence from event-related potentials and computational modeling of striatal-cortical function. <i>Human Brain Mapping</i> , 2009 , 30, 1963-76	5.9	103
145	Striatal D1 and D2 signaling differentially predict learning from positive and negative outcomes. <i>NeuroImage</i> , 2015 , 109, 95-101	7.9	102
144	How preparation changes the need for top-down control of the basal ganglia when inhibiting premature actions. <i>Journal of Neuroscience</i> , 2012 , 32, 10870-8	6.6	98
143	A role for dopamine in temporal decision making and reward maximization in parkinsonism. <i>Journal of Neuroscience</i> , 2008 , 28, 12294-304	6.6	98
142	Approach and avoidance learning in patients with major depression and healthy controls: relation to anhedonia. <i>Psychological Medicine</i> , 2010 , 40, 433-40	6.9	97
141	Learning to avoid in older age. <i>Psychology and Aging</i> , 2008 , 23, 392-8	3.6	97
140	Model-Based Cognitive Neuroscience Approaches to Computational Psychiatry: Clustering and Classification. <i>Clinical Psychological Science</i> , 2015 , 3, 378-399	6	96
139	The drift diffusion model as the choice rule in reinforcement learning. <i>Psychonomic Bulletin and Review</i> , 2017 , 24, 1234-1251	4.1	94
138	Altered probabilistic learning and response biases in schizophrenia: behavioral evidence and neurocomputational modeling. <i>Neuropsychology</i> , 2011 , 25, 86-97	3.8	94
137	When logic fails: implicit transitive inference in humans. <i>Memory and Cognition</i> , 2005 , 33, 742-50	2.2	89
136	Task-related dissociation in ERN amplitude as a function of obsessive-compulsive symptoms. <i>Neuropsychologia</i> , 2009 , 47, 1978-87	3.2	87

135	Dopamine promotes cognitive effort by biasing the benefits versus costs of cognitive work. <i>Science</i> , 2020 , 367, 1362-1366	33.3	84
134	Neural mechanisms of acquired phasic dopamine responses in learning. <i>Neuroscience and Biobehavioral Reviews</i> , 2010 , 34, 701-20	9	83
133	PVLV: the primary value and learned value Pavlovian learning algorithm. <i>Behavioral Neuroscience</i> , 2007 , 121, 31-49	2.1	81
132	Variability in Dopamine Genes Dissociates Model-Based and Model-Free Reinforcement Learning. <i>Journal of Neuroscience</i> , 2016 , 36, 1211-22	6.6	77
131	Neurocomputational models of motor and cognitive deficits in Parkinson's disease. <i>Progress in Brain Research</i> , 2010 , 183, 275-97	2.9	74
130	Stress modulates reinforcement learning in younger and older adults. <i>Psychology and Aging</i> , 2013 , 28, 35-46	3.6	70
129	Acute stress selectively reduces reward sensitivity. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 133	3.3	70
128	Effort cost computation in schizophrenia: a commentary on the recent literature. <i>Biological Psychiatry</i> , 2015 , 78, 747-53	7.9	68
127	Cross-task individual differences in error processing: neural, electrophysiological, and genetic components. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2007 , 7, 297-308	3.5	64
126	Differential, but not opponent, effects of L-DOPA and citalopram on action learning with reward and punishment. <i>Psychopharmacology</i> , 2014 , 231, 955-66	4.7	63
125	The role of frontostriatal impairment in freezing of gait in Parkinson's disease. <i>Frontiers in Systems Neuroscience</i> , 2013 , 7, 61	3.5	62
124	Social stress reactivity alters reward and punishment learning. <i>Social Cognitive and Affective Neuroscience</i> , 2011 , 6, 311-20	4	62
123	Multiple Systems in Decision Making: A Neurocomputational Perspective. <i>Current Directions in Psychological Science</i> , 2009 , 18, 73-77	6.5	61
122	Within- and across-trial dynamics of human EEG reveal cooperative interplay between reinforcement learning and working memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2502-2507	11.5	60
121	Probabilistic Reinforcement Learning in Patients With Schizophrenia: Relationships to Anhedonia and Avolition. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2016 , 1, 460-473	3.4	60
120	Interactions Among Working Memory, Reinforcement Learning, and Effort in Value-Based Choice: A New Paradigm and Selective Deficits in Schizophrenia. <i>Biological Psychiatry</i> , 2017 , 82, 431-439	7.9	59
119	Human EEG uncovers latent generalizable rule structure during learning. <i>Journal of Neuroscience</i> , 2014 , 34, 4677-85	6.6	57
118	A reinforcement learning mechanism responsible for the valuation of free choice. <i>Neuron</i> , 2014 , 83, 551-563	7.9	57

117	Conflict acts as an implicit cost in reinforcement learning. <i>Nature Communications</i> , 2014 , 5, 5394	17.4	55
116	Dissociable responses to punishment in distinct striatal regions during reversal learning. <i>NeuroImage</i> , 2010 , 51, 1459-67	7.9	55
115	Dopaminergic basis for impairments in functional connectivity across subdivisions of the striatum in Parkinson's disease. <i>Human Brain Mapping</i> , 2015 , 36, 1278-91	5.9	54
114	Working Memory Load Strengthens Reward Prediction Errors. <i>Journal of Neuroscience</i> , 2017 , 37, 4332-4342	3.4	53
113	A role for dopamine-mediated learning in the pathophysiology and treatment of Parkinson's disease. <i>Cell Reports</i> , 2012 , 2, 1747-61	10.6	52
112	Probabilistic reinforcement learning in adults with autism spectrum disorders. <i>Autism Research</i> , 2011 , 4, 109-20	5.1	52
111	Dopamine, locus of control, and the exploration-exploitation tradeoff. <i>Neuropsychopharmacology</i> , 2015 , 40, 454-62	8.7	50
110	Larger Error Signals in Major Depression are Associated with Better Avoidance Learning. <i>Frontiers in Psychology</i> , 2011 , 2, 331	3.4	49
109	Striatal dopaminergic modulation of reinforcement learning predicts reward-oriented behavior in daily life. <i>Biological Psychology</i> , 2017 , 127, 1-9	3.2	47
108	CNTRICS final task selection: long-term memory. <i>Schizophrenia Bulletin</i> , 2009 , 35, 197-212	1.3	44
107	Catecholaminergic challenge uncovers distinct Pavlovian and instrumental mechanisms of motivated (in)action. <i>ELife</i> , 2017 , 6,	8.9	44
106	Chunking as a rational strategy for lossy data compression in visual working memory. <i>Psychological Review</i> , 2018 , 125, 486-511	6.3	44
105	Spontaneous eye blink rate predicts learning from negative, but not positive, outcomes. <i>Neuropsychologia</i> , 2015 , 71, 126-32	3.2	43
104	Patients with schizophrenia demonstrate inconsistent preference judgments for affective and nonaffective stimuli. <i>Schizophrenia Bulletin</i> , 2011 , 37, 1295-304	1.3	43
103	Computational models of reinforcement learning: the role of dopamine as a reward signal. <i>Cognitive Neurodynamics</i> , 2010 , 4, 91-105	4.2	42
102	A cholinergic feedback circuit to regulate striatal population uncertainty and optimize reinforcement learning. <i>ELife</i> , 2015 , 4,	8.9	42
101	Positive reward prediction errors during decision-making strengthen memory encoding. <i>Nature Human Behaviour</i> , 2019 , 3, 719-732	12.8	40
100	Role of Prefrontal Cortex in Learning and Generalizing Hierarchical Rules in 8-Month-Old Infants. <i>Journal of Neuroscience</i> , 2016 , 36, 10314-10322	6.6	40

99	A neurocomputational account of catalepsy sensitization induced by D2 receptor blockade in rats: context dependency, extinction, and renewal. <i>Psychopharmacology</i> , 2009 , 204, 265-77	4.7	38
98	Charting the landscape of priority problems in psychiatry, part 2: pathogenesis and aetiology. <i>Lancet Psychiatry</i> , 2016 , 3, 84-90	23.3	37
97	Altered cingulate sub-region activation accounts for task-related dissociation in ERN amplitude as a function of obsessive-compulsive symptoms. <i>Neuropsychologia</i> , 2010 , 48, 2098-109	3.2	37
96	Hypothetical decision making in schizophrenia: the role of expected value computation and "irrational" biases. <i>Psychiatry Research</i> , 2013 , 209, 142-9	9.9	35
95	Roles of D1-like dopamine receptors in the nucleus accumbens and dorsolateral striatum in conditioned avoidance responses. <i>Psychopharmacology</i> , 2012 , 219, 159-69	4.7	34
94	The Case for Adaptive Neuromodulation to Treat Severe Intractable Mental Disorders. <i>Frontiers in Neuroscience</i> , 2019 , 13, 152	5.1	33
93	Taming the beast: extracting generalizable knowledge from computational models of cognition. <i>Current Opinion in Behavioral Sciences</i> , 2016 , 11, 49-54	4	33
92	The subthalamic nucleus contributes to post-error slowing. <i>Journal of Cognitive Neuroscience</i> , 2014 , 26, 2637-44	3.1	32
91	Pleasurable music affects reinforcement learning according to the listener. <i>Frontiers in Psychology</i> , 2013 , 4, 541	3.4	32
90	8-month-old infants spontaneously learn and generalize hierarchical rules. <i>Psychological Science</i> , 2015 , 26, 805-15	7.9	31
89	Multiple Dissociations Between Comorbid Depression and Anxiety on Reward and Punishment Processing: Evidence From Computationally Informed EEG. <i>Computational Psychiatry</i> , 2019 , 3, 1-17	3.8	31
88	Estimating across-trial variability parameters of the Diffusion Decision Model: Expert advice and recommendations. <i>Journal of Mathematical Psychology</i> , 2018 , 87, 46-75	1.2	31
87	Schizophrenia: a computational reinforcement learning perspective. <i>Schizophrenia Bulletin</i> , 2008 , 34, 1008-11	1.3	30
86	Feedback-driven trial-by-trial learning in autism spectrum disorders. <i>American Journal of Psychiatry</i> , 2015 , 172, 173-81	11.9	28
85	Sensitivity to reward and punishment in major depressive disorder: effects of rumination and of single versus multiple experiences. <i>Cognition and Emotion</i> , 2012 , 26, 1475-85	2.3	28
84	How cognitive theory guides neuroscience. <i>Cognition</i> , 2015 , 135, 14-20	3.5	27
83	A Computational Cognitive Biomarker for Early-Stage Huntington's Disease. <i>PLoS ONE</i> , 2016 , 11, e0148409	3.7	27
82	Identifying the neural correlates of doorway freezing in Parkinson's disease. <i>Human Brain Mapping</i> , 2019 , 40, 2055-2064	5.9	26

81	Biases in the Explore-Exploit Tradeoff in Addictions: The Role of Avoidance of Uncertainty. <i>Neuropsychopharmacology</i> , 2016 , 41, 940-8	8.7	25
80	Statistical context dictates the relationship between feedback-related EEG signals and learning. <i>ELife</i> , 2019 , 8,	8.9	25
79	Wave-like dopamine dynamics as a mechanism for spatiotemporal credit assignment. <i>Cell</i> , 2021 , 184, 2733-2749.e16	56.2	23
78	Surprise! Dopamine signals mix action, value and error. <i>Nature Neuroscience</i> , 2016 , 19, 3-5	25.5	22
77	Compositional clustering in task structure learning. <i>PLoS Computational Biology</i> , 2018 , 14, e1006116	5	22
76	The basal ganglia in reward and decision making 2009 , 399-425		21
75	Hierarchical Bayesian inference for concurrent model fitting and comparison for group studies. <i>PLoS Computational Biology</i> , 2019 , 15, e1007043	5	20
74	Reduced susceptibility to confirmation bias in schizophrenia. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2014 , 14, 715-28	3.5	20
73	Theory-Based Computational Psychiatry. <i>Biological Psychiatry</i> , 2017 , 82, 382-384	7.9	20
72	Realizing the Clinical Potential of Computational Psychiatry: Report From the Banbury Center Meeting, February 2019. <i>Biological Psychiatry</i> , 2020 , 88, e5-e10	7.9	19
71	Interactionist Neuroscience. <i>Neuron</i> , 2015 , 88, 855-860	13.9	19
70	CNTRICS imaging biomarkers final task selection: Long-term memory and reinforcement learning. <i>Schizophrenia Bulletin</i> , 2012 , 38, 62-72	1.3	18
69	Dopamine and Proximity in Motivation and Cognitive Control. <i>Current Opinion in Behavioral Sciences</i> , 2018 , 22, 28-34	4	17
68	Advances in the computational understanding of mental illness. <i>Neuropsychopharmacology</i> , 2021 , 46, 3-19	8.7	17
67	Motivational Deficits in Schizophrenia Are Associated With Reduced Differentiation Between Gain and Loss-Avoidance Feedback in the Striatum. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018 , 3, 239-247	3.4	17
66	Interrelations between cognitive dysfunction and motor symptoms of Parkinson's disease: behavioral and neural studies. <i>Reviews in the Neurosciences</i> , 2016 , 27, 535-48	4.7	16
65	Transitive inference in adults with autism spectrum disorders. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2011 , 11, 437-49	3.5	16
64	Anxiety Impedes Adaptive Social Learning Under Uncertainty. <i>Psychological Science</i> , 2020 , 31, 592-603	7.9	15

63	Cross-Task Contributions of Frontobasal Ganglia Circuitry in Response Inhibition and Conflict-Induced Slowing. <i>Cerebral Cortex</i> , 2019 , 29, 1969-1983	5.1	15
62	Frontal network dynamics reflect neurocomputational mechanisms for reducing maladaptive biases in motivated action. <i>PLoS Biology</i> , 2018 , 16, e2005979	9.7	15
61	Motivational deficits in schizophrenia relate to abnormalities in cortical learning rate signals. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2018 , 18, 1338-1351	3.5	15
60	Optimizing vs. matching: response strategy in a probabilistic learning task is associated with negative symptoms of schizophrenia. <i>Schizophrenia Research</i> , 2011 , 127, 215-22	3.6	14
59	Dopamine D2 agonist affects visuospatial working memory distractor interference depending on individual differences in baseline working memory span. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2018 , 18, 509-520	3.5	13
58	Intact striatal dopaminergic modulation of reward learning and daily-life reward-oriented behavior in first-degree relatives of individuals with psychotic disorder. <i>Psychological Medicine</i> , 2018 , 48, 1909-1914	6.9	12
57	Approach-Avoidance Conflict in Major Depressive Disorder: Congruent Neural Findings in Humans and Nonhuman Primates. <i>Biological Psychiatry</i> , 2020 , 87, 399-408	7.9	12
56	Dissecting the impact of depression on decision-making. <i>Psychological Medicine</i> , 2020 , 50, 1613-1622	6.9	12
55	Stop! Stay tuned for more information. <i>Experimental Neurology</i> , 2013 , 247, 289-91	5.7	11
54	Impaired Expected Value Computations Coupled With Overreliance on Stimulus-Response Learning in Schizophrenia. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018 , 3, 916-926	3.4	10
53	A Control Theoretic Model of Adaptive Learning in Dynamic Environments. <i>Journal of Cognitive Neuroscience</i> , 2018 , 30, 1405-1421	3.1	10
52	Cognitive correlates of psychosis in patients with Parkinson's disease. <i>Cognitive Neuropsychiatry</i> , 2014 , 19, 381-98	2	10
51	Do substantia nigra dopaminergic neurons differentiate between reward and punishment?. <i>Journal of Molecular Cell Biology</i> , 2009 , 1, 15-6	6.3	10
50	Non-conventional epimerisation and functionalisation of quinic acid and shikimic acid methyl esters. <i>Carbohydrate Research</i> , 1998 , 313, 49-53	2.9	10
49	Reduction of Pavlovian Bias in Schizophrenia: Enhanced Effects in Clozapine-Administered Patients. <i>PLoS ONE</i> , 2016 , 11, e0152781	3.7	10
48	A Neural Correlate of Strategic Exploration at the Onset of Adolescence. <i>Journal of Cognitive Neuroscience</i> , 2016 , 28, 199-209	3.1	9
47	Probability and magnitude evaluation in schizophrenia. <i>Schizophrenia Research: Cognition</i> , 2016 , 5, 41-46	2.8	9
46	Impaired Expected Value Computations in Schizophrenia Are Associated With a Reduced Ability to Integrate Reward Probability and Magnitude of Recent Outcomes. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019 , 4, 280-290	3.4	8

45	Simultaneous Hierarchical Bayesian Parameter Estimation for Reinforcement Learning and Drift Diffusion Models: a Tutorial and Links to Neural Data.. <i>Computational Brain & Behavior</i> , 2020 , 3, 458-471 ²	8
44	A mosaic of cost-benefit control over cortico-striatal circuitry. <i>Trends in Cognitive Sciences</i> , 2021 , 25, 710-721	8
43	Reward-predictive representations generalize across tasks in reinforcement learning. <i>PLoS Computational Biology</i> , 2020 , 16, e1008317	5 7
42	All or nothing belief updating in patients with schizophrenia reduces precision and flexibility of beliefs. <i>Brain</i> , 2021 , 144, 1013-1029	11.2 7
41	Striatal dopamine release and impaired reinforcement learning in adults with 22q11.2 deletion syndrome. <i>European Neuropsychopharmacology</i> , 2018 , 28, 732-742	1.2 6
40	Stimulus discriminability may bias value-based probabilistic learning. <i>PLoS ONE</i> , 2017 , 12, e0176205	3.7 6
39	Intermittent subthalamic nucleus deep brain stimulation induces risk-averse behavior in human subjects. <i>ELife</i> , 2018 , 7,	8.9 6
38	Dopamine waves as a mechanism for spatiotemporal credit assignment	6
37	Linking Across Levels of Computation in Model-Based Cognitive Neuroscience 2015 , 159-177	5
36	A control theoretic model of adaptive behavior in dynamic environments	5
35	Likelihood approximation networks (LANs) for fast inference of simulation models in cognitive neuroscience. <i>ELife</i> , 2021 , 10,	8.9 5
34	Increased conflict-induced slowing, but no differences in conflict-induced positive or negative prediction error learning in patients with schizophrenia. <i>Neuropsychologia</i> , 2019 , 123, 131-140	3.2 4
33	Cross-task contributions of fronto-basal ganglia circuitry in response inhibition and conflict-induced slowing	4
32	Analogous computations in working memory input, output and motor gating: Electrophysiological and computational modeling evidence. <i>PLoS Computational Biology</i> , 2021 , 17, e1008971	5 4
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