Geoffrey Schoenbaum

List of Publications by Year in Descending Order

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

165 papers	13,959 citations	59 h-index	117 g-index
196 ext. papers	16,164 ext. citations	9.5 avg, IF	6.83 L-index

#	Paper	IF	Citations
165	Minimal cross-trial generalization in learning the representation of an odor-guided choice task.. *PLoS Computational Biology*, **2022**, 18, e1009897	5	
164	Anterior cingulate neurons signal neutral cue pairings during sensory preconditioning.. *Current Biology*, **2021**,	6.3	1
163	Replication efforts have limited epistemic value. *Nature*, **2021**, 599, 201	50.4	2
162	The magical orbitofrontal cortex. *Behavioral Neuroscience*, **2021**, 135, 108	2.1	0
161	The orbitofrontal cartographer. *Behavioral Neuroscience*, **2021**, 135, 267-276	2.1	5
160	Cross-species studies on orbitofrontal control of inference-based behavior. *Behavioral Neuroscience* , **2021**, 135, 109-119	2.1	2
159	The orbitofrontal cortex is necessary for learning to ignore. *Current Biology*, **2021**, 31, 2652-2657.e3	6.3	4
158	Neuroscience: What, where, and how wonderful?. *Current Biology*, **2021**, 31, R896-R898	6.3	
157	Leveraging Basic Science for the Clinic-From Bench to Bedside. *JAMA Psychiatry*, **2021**, 78, 331-334	14.5	2
156	Prior Cocaine Use Alters the Normal Evolution of Information Coding in Striatal Ensembles during Value-Guided Decision-Making. *Journal of Neuroscience*, **2021**, 41, 342-353	6.6	1
155	Evolving schema representations in orbitofrontal ensembles during learning. *Nature*, **2021**, 590, 606-611	50.4	17
154	Orbitofrontal State Representations Are Related to Choice Adaptations and Reward Predictions. *Journal of Neuroscience*, **2021**, 41, 1941-1951	6.6	1
153	Past experience shapes the neural circuits recruited for future learning. *Nature Neuroscience*, **2021**, 24, 391-400	25.5	8
152	Spatial Representations in Rat Orbitofrontal Cortex. *Journal of Neuroscience*, **2021**, 41, 6933-6945	6.6	2
151	Orbitofrontal cortex and learning predictions of state transitions. *Behavioral Neuroscience*, **2021**, 135, 487-497	2.1	0
150	Prospective representations in rat orbitofrontal ensembles. *Behavioral Neuroscience*, **2021**, 135, 518-527	2.1	0
149	Is the core function of orbitofrontal cortex to signal values or make predictions?. *Current Opinion in Behavioral Sciences*, **2021**, 41, 1-9	4	6

148	Neuroscience: From Sensory Discrimination to Choice in Gustatory Cortex. *Current Biology*, **2020**, 30, R444-R446	6.3	
147	Interactions between human orbitofrontal cortex and hippocampus support model-based inference. *PLoS Biology*, **2020**, 18, e3000578	9.7	44
146	Targeted Stimulation of Human Orbitofrontal Networks Disrupts Outcome-Guided Behavior. *Current Biology*, **2020**, 30, 490-498.e4	6.3	26
145	Causal evidence supporting the proposal that dopamine transients function as temporal difference prediction errors. *Nature Neuroscience*, **2020**, 23, 176-178	25.5	25
144	Responding to preconditioned cues is devaluation sensitive and requires orbitofrontal cortex during cue-cue learning. *ELife*, **2020**, 9,	8.9	15
143	Dopamine transients do not act as model-free prediction errors during associative learning. *Nature Communications*, **2020**, 11, 106	17.4	22
142	Targeted Stimulation of an Orbitofrontal Network Disrupts Decisions Based on Inferred, Not Experienced Outcomes. *Journal of Neuroscience*, **2020**, 40, 8726-8733	6.6	9
141	Processing in Lateral Orbitofrontal Cortex Is Required to Estimate Subjective Preference during Initial, but Not Established, Economic Choice. *Neuron*, **2020**, 108, 526-537.e4	13.9	5
140	Complementary Task Structure Representations in Hippocampus and Orbitofrontal Cortex during an Odor Sequence Task. *Current Biology*, **2019**, 29, 3402-3409.e3	6.3	20
139	Rat Orbitofrontal Ensemble Activity Contains Multiplexed but Dissociable Representations of Value and Task Structure in an Odor Sequence Task. *Current Biology*, **2019**, 29, 897-907.e3	6.3	34
138	Sensory prediction errors in the human midbrain signal identity violations independent of perceptual distance. *ELife*, **2019**, 8,	8.9	12
137	Dopamine neuron ensembles signal the content of sensory prediction errors. *ELife*, **2019**, 8,	8.9	21
136	Real-Time Value Integration during Economic Choice Is Regulated by Orbitofrontal Cortex. *Current Biology*, **2019**, 29, 4315-4322.e4	6.3	11
135	Expectancy-Related Changes in Dopaminergic Error Signals Are Impaired by Cocaine Self-Administration. *Neuron*, **2019**, 101, 294-306.e3	13.9	9
134	An Integrated Model of Action Selection: Distinct Modes of Cortical Control of Striatal Decision Making. *Annual Review of Psychology*, **2019**, 70, 53-76	26.1	42
133	Orbitofrontal neurons signal reward predictions, not reward prediction errors. *Neurobiology of Learning and Memory*, **2018**, 153, 137-143	3.1	23
132	Evaluation of the hypothesis that phasic dopamine constitutes a cached-value signal. *Neurobiology of Learning and Memory*, **2018**, 153, 131-136	3.1	9
131	Model-based predictions for dopamine. *Current Opinion in Neurobiology*, **2018**, 49, 1-7	7.6	70

130	Medial orbitofrontal inactivation does not affect economic choice. *ELife*, **2018**, 7,	8.9	22
129	Rethinking dopamine as generalized prediction error. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	56
128	Manipulating the revision of reward value during the intertrial interval increases sign tracking and dopamine release. *PLoS Biology*, **2018**, 16, e2004015	9.7	13
127	Brief, But Not Prolonged, Pauses in the Firing of Midbrain Dopamine Neurons Are Sufficient to Produce a Conditioned Inhibitor. *Journal of Neuroscience*, **2018**, 38, 8822-8830	6.6	20
126	Does the Dopaminergic Error Signal Act Like a Cached-Value Prediction Error? **2018**, 243-258		
125	Orbitofrontal neurons signal sensory associations underlying model-based inference in a sensory preconditioning task. *ELife*, **2018**, 7,	8.9	48
124	Toward a theoretical role for tonic norepinephrine in the orbitofrontal cortex in facilitating flexible learning. *Neuroscience*, **2017**, 345, 124-129	3.9	23
123	Rat mPFC and M2 Play a Waiting Game (at Different Timescales). *Neuron*, **2017**, 94, 700-702	13.9	
122	Dopamine transients are sufficient and necessary for acquisition of model-based associations. *Nature Neuroscience*, **2017**, 20, 735-742	25.5	132
121	Effects of inference on dopaminergic prediction errors depend on orbitofrontal processing. *Behavioral Neuroscience*, **2017**, 131, 127-134	2.1	15
120	Optogenetic Blockade of Dopamine Transients Prevents Learning Induced by Changes in Reward Features. *Current Biology*, **2017**, 27, 3480-3486.e3	6.3	38
119	Dopamine Neurons Respond to Errors in the Prediction of Sensory Features of Expected Rewards. *Neuron*, **2017**, 95, 1395-1405.e3	13.9	94
118	Suppression of Ventral Hippocampal Output Impairs Integrated Orbitofrontal Encoding of Task Structure. *Neuron*, **2017**, 95, 1197-1207.e3	13.9	51
117	Lateral Orbitofrontal Inactivation Dissociates Devaluation-Sensitive Behavior and Economic Choice. *Neuron*, **2017**, 96, 1192-1203.e4	13.9	45
116	Lateral Hypothalamic GABAergic Neurons Encode Reward Predictions that Are Relayed to the Ventral Tegmental Area to Regulate Learning. *Current Biology*, **2017**, 27, 2089-2100.e5	6.3	65
115	The Dopamine Prediction Error: Contributions to Associative Models of Reward Learning. *Frontiers in Psychology*, **2017**, 8, 244	3.4	39
114	Preconditioned cues have no value. *ELife*, **2017**, 6,	8.9	23
113	Ensembles in medial and lateral orbitofrontal cortex construct cognitive maps emphasizing different features of the behavioral landscape. *Behavioral Neuroscience*, **2017**, 131, 201-212	2.1	21

112	Medial Orbitofrontal Neurons Preferentially Signal Cues Predicting Changes in Reward during Unblocking. *Journal of Neuroscience*, **2016**, 36, 8416-24	6.6	15
111	Thinking Outside the Box: Orbitofrontal Cortex, Imagination, and How We Can Treat Addiction. *Neuropsychopharmacology*, **2016**, 41, 2966-2976	8.7	25
110	Neural correlates of two different types of extinction learning in the amygdala central nucleus. *Nature Communications*, **2016**, 7, 12330	17.4	8
109	Cholinergic Interneurons Use Orbitofrontal Input to Track Beliefs about Current State. *Journal of Neuroscience*, **2016**, 36, 6242-57	6.6	46
108	Over the river, through the woods: cognitive maps in the hippocampus and orbitofrontal cortex. *Nature Reviews Neuroscience*, **2016**, 17, 513-23	13.5	158
107	Temporal Specificity of Reward Prediction Errors Signaled by Putative Dopamine Neurons in Rat VTA Depends on Ventral Striatum. *Neuron*, **2016**, 91, 182-93	13.9	66
106	Brief optogenetic inhibition of dopamine neurons mimics endogenous negative reward prediction errors. *Nature Neuroscience*, **2016**, 19, 111-6	25.5	120
105	Midbrain dopamine neurons compute inferred and cached value prediction errors in a common framework. *ELife*, **2016**, 5,	8.9	77
104	Ventral striatal lesions disrupt dopamine neuron signaling of differences in cue value caused by changes in reward timing but not number. *Behavioral Neuroscience*, **2016**, 130, 593-9	2.1	4
103	Back to basics: Making predictions in the orbitofrontal-amygdala circuit. *Neurobiology of Learning and Memory*, **2016**, 131, 201-6	3.1	40
102	Dialogue on economic choice, learning theory, and neuronal representations. *Current Opinion in Behavioral Sciences*, **2015**, 5, 16-23	4	24
101	Effects of prior cocaine versus morphine or heroin self-administration on extinction learning driven by overexpectation versus omission of reward. *Biological Psychiatry*, **2015**, 77, 912-20	7.9	18
100	What the orbitofrontal cortex does not do. *Nature Neuroscience*, **2015**, 18, 620-7	25.5	307
99	Altered basolateral amygdala encoding in an animal model of schizophrenia. *Journal of Neuroscience*, **2015**, 35, 6394-400	6.6	8
98	Orbitofrontal lesions eliminate signalling of biological significance in cue-responsive ventral striatal neurons. *Nature Communications*, **2015**, 6, 7195	17.4	16
97	Effect of the Novel Positive Allosteric Modulator of Metabotropic Glutamate Receptor 2 AZD8529 on Incubation of Methamphetamine Craving After Prolonged Voluntary Abstinence in a Rat Model. *Biological Psychiatry*, **2015**, 78, 463-73	7.9	98
96	The State of the Orbitofrontal Cortex. *Neuron*, **2015**, 88, 1075-1077	13.9	12
95	Neural Estimates of Imagined Outcomes in Basolateral Amygdala Depend on Orbitofrontal Cortex. *Journal of Neuroscience*, **2015**, 35, 16521-30	6.6	17

94	Interneurons are necessary for coordinated activity during reversal learning in orbitofrontal cortex. *Biological Psychiatry*, **2015**, 77, 454-64	7.9	50
93	Lateral orbitofrontal neurons acquire responses to upshifted, downshifted, or blocked cues during unblocking. *ELife*, **2015**, 4, e11299	8.9	25
92	Learning theory: a driving force in understanding orbitofrontal function. *Neurobiology of Learning and Memory*, **2014**, 108, 22-7	3.1	47
91	Orbitofrontal cortex as a cognitive map of task space. *Neuron*, **2014**, 81, 267-279	13.9	479
90	Orbitofrontal activation restores insight lost after cocaine use. *Nature Neuroscience*, **2014**, 17, 1092-9	25.5	45
89	The dorsal raphe nucleus is integral to negative prediction errors in Pavlovian fear. *European Journal of Neuroscience*, **2014**, 40, 3096-101	3.5	29
88	Orbitofrontal neurons infer the value and identity of predicted outcomes. *Nature Communications*, **2014**, 5, 3926	17.4	66
87	Orbitofrontal neurons acquire responses to TvaluelessTPavlovian cues during unblocking. *ELife*, **2014**, 3, e02653	8.9	50
86	How did the chicken cross the road? With her striatal cholinergic interneurons, of course. *Neuron*, **2013**, 79, 3-6	13.9	14
85	Neural estimates of imagined outcomes in the orbitofrontal cortex drive behavior and learning. *Neuron*, **2013**, 80, 507-18	13.9	61
84	Risk-responsive orbitofrontal neurons track acquired salience. *Neuron*, **2013**, 77, 251-8	13.9	56
83	Dopamine signals mimic reward prediction errors. *Nature Neuroscience*, **2013**, 16, 777-9	25.5	4
82	Disruption of model-based behavior and learning by cocaine self-administration in rats. *Psychopharmacology*, **2013**, 229, 493-501	4.7	12
81	Optogenetic inhibition of dorsal medial prefrontal cortex attenuates stress-induced reinstatement of palatable food seeking in female rats. *Journal of Neuroscience*, **2013**, 33, 214-26	6.6	55
80	Model-based learning and the contribution of the orbitofrontal cortex to the model-free world. *European Journal of Neuroscience*, **2012**, 35, 991-6	3.5	63
79	Surprise! Neural correlates of Pearce-Hall and Rescorla-Wagner coexist within the brain. *European Journal of Neuroscience*, **2012**, 35, 1190-200	3.5	115
78	Reward prediction error signaling in posterior dorsomedial striatum is action specific. *Journal of Neuroscience*, **2012**, 32, 10296-305	6.6	46
77	Attention-related Pearce-Kaye-Hall signals in basolateral amygdala require the midbrain dopaminergic system. *Biological Psychiatry*, **2012**, 72, 1012-9	7.9	32

76	Orbitofrontal cortex supports behavior and learning using inferred but not cached values. *Science*, **2012**, 338, 953-6	33.3	235
75	The impact of orbitofrontal dysfunction on cocaine addiction. *Nature Neuroscience*, **2012**, 15, 358-66	25.5	152
74	Normal aging alters learning and attention-related teaching signals in basolateral amygdala. *Journal of Neuroscience*, **2012**, 32, 13137-44	6.6	11
73	Willingness to wait and altered encoding of time-discounted reward in the orbitofrontal cortex with normal aging. *Journal of Neuroscience*, **2012**, 32, 5525-33	6.6	27
72	Impaired reality testing in an animal model of schizophrenia. *Biological Psychiatry*, **2011**, 70, 1122-6	7.9	28
71	Differential roles of human striatum and amygdala in associative learning. *Nature Neuroscience*, **2011**, 14, 1250-2	25.5	234
70	Expectancy-related changes in firing of dopamine neurons depend on orbitofrontal cortex. *Nature Neuroscience*, **2011**, 14, 1590-7	25.5	193
69	Normal Aging does Not Impair Orbitofrontal-Dependent Reinforcer Devaluation Effects. *Frontiers in Aging Neuroscience*, **2011**, 3, 4	5.3	9
68	Contrasting Effects of Lithium Chloride and CB1 Receptor Blockade on Enduring Changes in the Valuation of Reward. *Frontiers in Behavioral Neuroscience*, **2011**, 5, 53	3.5	4
67	Does the orbitofrontal cortex signal value?. *Annals of the New York Academy of Sciences*, **2011**, 1239, 87-99	6.5	172
66	Ventral striatum and orbitofrontal cortex are both required for model-based, but not model-free, reinforcement learning. *Journal of Neuroscience*, **2011**, 31, 2700-5	6.6	171
65	The role of the nucleus accumbens in knowing when to respond. *Learning and Memory*, **2011**, 18, 85-7	2.8	9
64	Neural correlates of stimulus-response and response-outcome associations in dorsolateral versus dorsomedial striatum. *Frontiers in Integrative Neuroscience*, **2010**, 4, 12	3.2	79
63	Nucleus Accumbens Core and Shell are Necessary for Reinforcer Devaluation Effects on Pavlovian Conditioned Responding. *Frontiers in Integrative Neuroscience*, **2010**, 4, 126	3.2	34
62	All that glitters ... dissociating attention and outcome expectancy from prediction errors signals. *Journal of Neurophysiology*, **2010**, 104, 587-95	3.2	56
61	Inactivation of the central but not the basolateral nucleus of the amygdala disrupts learning in response to overexpectation of reward. *Journal of Neuroscience*, **2010**, 30, 2911-7	6.6	22
60	Neural correlates of variations in event processing during learning in basolateral amygdala. *Journal of Neuroscience*, **2010**, 30, 2464-71	6.6	125
59	More is less: a disinhibited prefrontal cortex impairs cognitive flexibility. *Journal of Neuroscience*, **2010**, 30, 17102-10	6.6	124

58	Neural correlates of variations in event processing during learning in central nucleus of amygdala. *Neuron*, **2010**, 68, 991-1001	13.9	51
57	How do you (estimate you will) like them apples? Integration as a defining trait of orbitofrontal function. *Current Opinion in Neurobiology*, **2010**, 20, 205-11	7.6	100
56	Ventral striatal neurons encode the value of the chosen action in rats deciding between differently delayed or sized rewards. *Journal of Neuroscience*, **2009**, 29, 13365-76	6.6	146
55	Toward a model of impaired reality testing in rats. *Schizophrenia Bulletin*, **2009**, 35, 664-7	1.3	19
54	A new perspective on the role of the orbitofrontal cortex in adaptive behaviour. *Nature Reviews Neuroscience*, **2009**, 10, 885-92	13.5	420
53	Orbitofrontal inactivation impairs reversal of Pavlovian learning by interfering with TdisinhibitionT of responding for previously unrewarded cues. *European Journal of Neuroscience*, **2009**, 30, 1941-6	3.5	53
52	The orbitofrontal cortex and ventral tegmental area are necessary for learning from unexpected outcomes. *Neuron*, **2009**, 62, 269-80	13.9	214
51	Neural substrates of cognitive inflexibility after chronic cocaine exposure. *Neuropharmacology*, **2009**, 56 Suppl 1, 63-72	5.5	118
50	The role of the orbitofrontal cortex in the pursuit of happiness and more specific rewards. *Nature*, **2008**, 454, 340-4	50.4	125
49	The role of orbitofrontal cortex in drug addiction: a review of preclinical studies. *Biological Psychiatry*, **2008**, 63, 256-62	7.9	234
48	Cocaine-paired cues activate aversive representations in accumbens neurons. *Neuron*, **2008**, 57, 633	13.9	4
47	Dialogues on prediction errors. *Trends in Cognitive Sciences*, **2008**, 12, 265-72	14	253
46	E pluribus unum? A new take on addiction by Redish et al.. *Behavioral and Brain Sciences*, **2008**, 31, 459-459	5.9	
45	Double dissociation of the effects of medial and orbital prefrontal cortical lesions on attentional and affective shifts in mice. *Journal of Neuroscience*, **2008**, 28, 11124-30	6.6	285
44	Conditioned reinforcement can be mediated by either outcome-specific or general affective representations. *Frontiers in Integrative Neuroscience*, **2007**, 1, 2	3.2	29
43	Cocaine exposure shifts the balance of associative encoding from ventral to dorsolateral striatum. *Frontiers in Integrative Neuroscience*, **2007**, 1, 11	3.2	56
42	Cocaine-induced decision-making deficits are mediated by miscoding in basolateral amygdala. *Nature Neuroscience*, **2007**, 10, 949-51	25.5	48
41	Dopamine neurons encode the better option in rats deciding between differently delayed or sized rewards. *Nature Neuroscience*, **2007**, 10, 1615-24	25.5	463

40	Should I stay or should I go? Transformation of time-discounted rewards in orbitofrontal cortex and associated brain circuits. *Annals of the New York Academy of Sciences*, **2007**, 1104, 21-34	6.5	39
39	Reconciling the roles of orbitofrontal cortex in reversal learning and the encoding of outcome expectancies. *Annals of the New York Academy of Sciences*, **2007**, 1121, 320-35	6.5	104
38	Neural correlates of inflexible behavior in the orbitofrontal-amygdalar circuit after cocaine exposure. *Annals of the New York Academy of Sciences*, **2007**, 1121, 598-609	6.5	22
37	Withdrawal from cocaine self-administration produces long-lasting deficits in orbitofrontal-dependent reversal learning in rats. *Learning and Memory*, **2007**, 14, 325-8	2.8	110
36	What we know and do not know about the functions of the orbitofrontal cortex after 20 years of cross-species studies. *Journal of Neuroscience*, **2007**, 27, 8166-9	6.6	190
35	Previous cocaine exposure makes rats hypersensitive to both delay and reward magnitude. *Journal of Neuroscience*, **2007**, 27, 245-50	6.6	132
34	Basolateral amygdala lesions abolish orbitofrontal-dependent reversal impairments. *Neuron*, **2007**, 54, 51-8	13.9	161
33	Prior cocaine exposure disrupts extinction of fear conditioning. *Learning and Memory*, **2006**, 13, 416-21	2.8	28
32	Encoding of time-discounted rewards in orbitofrontal cortex is independent of value representation. *Neuron*, **2006**, 51, 509-20	13.9	234
31	Orbitofrontal cortex, decision-making and drug addiction. *Trends in Neurosciences*, **2006**, 29, 116-24	13.3	389
30	Paying attention. Focus on "State-dependent modulation of time-varying gustatory responses". *Journal of Neurophysiology*, **2006**, 96, 2844	3.2	
29	Encoding changes in orbitofrontal cortex in reversal-impaired aged rats. *Journal of Neurophysiology*, **2006**, 95, 1509-17	3.2	92
28	Abnormal associative encoding in orbitofrontal neurons in cocaine-experienced rats during decision-making. *European Journal of Neuroscience*, **2006**, 24, 2643-53	3.5	68
27	Rapid associative encoding in basolateral amygdala depends on connections with orbitofrontal cortex. *Neuron*, **2005**, 46, 321-31	13.9	179
26	Orbitofrontal cortex, associative learning, and expectancies. *Neuron*, **2005**, 47, 633-6	13.9	363
25	Cocaine makes actions insensitive to outcomes but not extinction: implications for altered orbitofrontal-amygdalar function. *Cerebral Cortex*, **2005**, 15, 1162-9	5.1	153
24	Thanks for the memories. *Learning and Memory*, **2005**, 12, 547-8	2.8	2
23	Affect, action, and ambiguity and the amygdala-orbitofrontal circuit. Focus on "combined unilateral lesions of the amygdala and orbital prefrontal cortex impair affective processing in rhesus monkeys". *Journal of Neurophysiology*, **2004**, 91, 1938-9	3.2	6

22	Cocaine-experienced rats exhibit learning deficits in a task sensitive to orbitofrontal cortex lesions. *European Journal of Neuroscience*, **2004**, 19, 1997-2002	3.5	161
21	Lesions of orbitofrontal cortex and basolateral amygdala complex disrupt acquisition of odor-guided discriminations and reversals. *Learning and Memory*, **2003**, 10, 129-40	2.8	233
20	Different roles for orbitofrontal cortex and basolateral amygdala in a reinforcer devaluation task. *Journal of Neuroscience*, **2003**, 23, 11078-84	6.6	379
19	Lesions of nucleus accumbens disrupt learning about aversive outcomes. *Journal of Neuroscience*, **2003**, 23, 9833-41	6.6	118
18	A systems approach to orbitofrontal cortex function: recordings in rat orbitofrontal cortex reveal interactions with different learning systems. *Behavioural Brain Research*, **2003**, 146, 19-29	3.4	105
17	Neural encoding in ventral striatum during olfactory discrimination learning. *Neuron*, **2003**, 38, 625-36	13.9	183
16	Encoding predicted outcome and acquired value in orbitofrontal cortex during cue sampling depends upon input from basolateral amygdala. *Neuron*, **2003**, 39, 855-67	13.9	383
15	Orbitofrontal lesions in rats impair reversal but not acquisition of go, no-go odor discriminations. *NeuroReport*, **2002**, 13, 885-90	1.7	266
14	Teaching old rats new tricks: age-related impairments in olfactory reversal learning. *Neurobiology of Aging*, **2002**, 23, 555-64	5.6	105
13	A novel method for detecting licking behavior during recording of electrophysiological signals from the brain. *Journal of Neuroscience Methods*, **2001**, 106, 139-46	3	6
12	Changes in functional connectivity in orbitofrontal cortex and basolateral amygdala during learning and reversal training. *Journal of Neuroscience*, **2000**, 20, 5179-89	6.6	183
11	Neural encoding in orbitofrontal cortex and basolateral amygdala during olfactory discrimination learning. *Journal of Neuroscience*, **1999**, 19, 1876-84	6.6	474
10	Orbitofrontal cortex and representation of incentive value in associative learning. *Journal of Neuroscience*, **1999**, 19, 6610-4	6.6	499
9	Functions of the amygdala and related forebrain areas in attention and cognition. *Annals of the New York Academy of Sciences*, **1999**, 877, 397-411	6.5	55
8	Orbitofrontal cortex and basolateral amygdala encode expected outcomes during learning. *Nature Neuroscience*, **1998**, 1, 155-9	25.5	712
7	The orbitofrontal cartographer		3
6	Rethinking dopamine as generalized prediction error		2
5	Rat orbitofrontal ensemble activity contains a multiplexed but value-invariant representation of task structure in an odor sequence task		2

4	Targeted stimulation of an orbitofrontal network disrupts decisions based on inferred, not experienced outcomes	1
3	Devaluation-sensitive responding to preconditioned cues requires orbitofrontal cortex during initial cue-cue learning	3
2	Causal evidence supporting the proposal that dopamine transients function as a temporal difference prediction error	2
1	Dopamine transients delivered in learning contexts do not act as model-free prediction errors	3