Philippe N Tobler

List of Publications by Year
in descending order

150 papers	10,030 citations	81743 39 h-index	40881 93 g-index
170 all docs	170 docs citations	170 times ranked	9392 citing authors

#	Article	IF	Citations
1	Discrete Coding of Reward Probability and Uncertainty by Dopamine Neurons. Science, 2003, 299, 1898-1902.	6.0	1,737
2	Adaptive Coding of Reward Value by Dopamine Neurons. Science, 2005, 307, 1642-1645.	6.0	1,085
3	Cognitive biases associated with medical decisions: a systematic review. BMC Medical Informatics and Decision Making, 2016, 16, 138.	1.5	574
4	Reward Value Coding Distinct From Risk Attitude-Related Uncertainty Coding in Human Reward Systems. Journal of Neurophysiology, 2007, 97, 1621-1632.	0.9	418
5	Neural Correlates of Value, Risk, and Risk Aversion Contributing to Decision Making under Risk. Journal of Neuroscience, 2009, 29, 12574-12583.	1.7	358
6	Coding of Predicted Reward Omission by Dopamine Neurons in a Conditioned Inhibition Paradigm. Journal of Neuroscience, 2003, 23, 10402-10410.	1.7	298
7	Neural mechanisms of observational learning. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14431-14436.	3.3	268
8	Ovarian hormones and obesity. Human Reproduction Update, 2017, 23, 300-321.	5.2	229
9	Explicit neural signals reflecting reward uncertainty. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 3801-3811.	1.8	199
10	Functional imaging of the human dopaminergic midbrain. Trends in Neurosciences, 2009, 32, 321-328.	4.2	184
11	Identity-specific coding of future rewards in the human orbitofrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5195-5200.	3.3	181
12	Human Neural Learning Depends on Reward Prediction Errors in the Blocking Paradigm. Journal of Neurophysiology, 2006, 95, 301-310.	0.9	175
13	Apathy But Not Diminished Expression in Schizophrenia Is Associated With Discounting of Monetary Rewards by Physical Effort. Schizophrenia Bulletin, 2015, 41, 503-512.	2.3	161
14	Risk-dependent reward value signal in human prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7185-7190.	3.3	160
15	Disentangling neural representations of value and salience in the human brain. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5000-5005.	3.3	156
16	Social discounting involves modulation of neural value signals by temporoparietal junction. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1619-1624.	3.3	148
17	Overconfidence and investment: An experimental approach. Journal of Corporate Finance, 2017, 43, 175-192.	2.7	109
18	Spatial gradient in value representation along the medial prefrontal cortex reflects individual differences in prosociality. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7851-7856.	3.3	108

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19	A neural link between generosity and happiness. Nature Communications, 2017, 8, 15964.	5.8	104
20	Parabolic discounting of monetary rewards by physical effort. Behavioural Processes, 2013, 100, 192-196.	0.5	102
21	Restricting Temptations: Neural Mechanisms of Precommitment. Neuron, 2013, 79, 391-401.	3.8	101
22	Brain stimulation reveals crucial role of overcoming self-centeredness in self-control. Science Advances, 2016, 2, e1600992.	4.7	100
23	The dopaminergic reward system underpins gender differences in social preferences. Nature Human Behaviour, 2017, 1, 819-827.	6.2	91
24	Functional changes of the reward system underlie blunted response to social gaze in cocaine users. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2842-2847.	3.3	89
25	Segregated and Integrated Coding of Reward and Punishment in the Cingulate Cortex. Journal of Neurophysiology, 2009, 101, 3284-3293.	0.9	86
26	Short-Term Temporal Discounting of Reward Value in Human Ventral Striatum. Journal of Neurophysiology, 2009, 101, 1507-1523.	0.9	85
27	Cortisol and testosterone increase financial risk taking and may destabilize markets. Scientific Reports, 2015, 5, 11206.	1.6	84
28	Neuronal Distortions of Reward Probability without Choice. Journal of Neuroscience, 2008, 28, 11703-11711.	1.7	83
29	Learning-Related Human Brain Activations Reflecting Individual Finances. Neuron, 2007, 54, 167-175.	3.8	78
30	How learning shapes the empathic brain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 80-85.	3.3	74
31	The role of learning-related dopamine signals in addiction vulnerability. Progress in Brain Research, 2014, 211, 31-77.	0.9	72
32	Neural Integration of Risk and Effort Costs by the Frontal Pole: Only upon Request. Journal of Neuroscience, 2013, 33, 1706-1713.	1.7	69
33	Salience Signals in the Right Temporoparietal Junction Facilitate Value-Based Decisions. Journal of Neuroscience, 2013, 33, 863-869.	1.7	66
34	Ventral striatal hypoactivation is associated with apathy but not diminished expression in patients with schizophrenia. Journal of Psychiatry and Neuroscience, 2016, 41, 152-161.	1.4	64
35	Evidence that the delay-period activity of dopamine neurons corresponds to reward uncertainty rather than backpropagating TD errors. Behavioral and Brain Functions, 2005, 1, 7.	1.4	62
36	Reward skewness coding in the insula independent of probability and loss. Journal of Neurophysiology, 2011, 106, 2415-2422.	0.9	53

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37	Ventral Pallidum Encodes Contextual Information and Controls Aversive Behaviors. Cerebral Cortex, 2017, 27, bhw107.	1.6	53
38	Dopamine Modulates the Functional Organization of the Orbitofrontal Cortex. Journal of Neuroscience, 2017, 37, 1493-1504.	1.7	52
39	Inactivating Anterior Insular Cortex Reduces Risk Taking. Journal of Neuroscience, 2012, 32, 16031-16039.	1.7	51
40	Comparison of functional near-infrared spectroscopy and electrodermal activity in assessing objective versus subjective risk during risky financial decisions. NeuroImage, 2014, 84, 833-842.	2.1	45
41	Brain Stimulation Over the Frontopolar Cortex Enhances Motivation to Exert Effort for Reward. Biological Psychiatry, 2018, 84, 38-45.	0.7	44
42	Decision-making in Multiple Sclerosis: The Role of Aversion to Ambiguity for Therapeutic Inertia among Neurologists (DIScUTIR MS). Frontiers in Neurology, 2017, 8, 65.	1.1	42
43	Value Learning through Reinforcement. , 2014, , 283-298.		41
44	Dopamine regulates stimulus generalization in the human hippocampus. ELife, 2016, 5, e12678.	2.8	41
45	Shared neural basis of social and non-social reward deficits in chronic cocaine users. Social Cognitive and Affective Neuroscience, 2016, 11, 1017-1025.	1.5	39
46	Value of freedom to choose encoded by the human brain. Journal of Neurophysiology, 2013, 110, 1915-1929.	0.9	38
47	Social threat learning transfers to decision making in humans. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4732-4737.	3.3	37
48	A computational reward learning account of social media engagement. Nature Communications, 2021, 12, 1311.	5.8	37
49	Striatal BOLD response reflects the impact of herd information on financial decisions. Frontiers in Human Neuroscience, 2010, 4, 48.	1.0	36
50	How Glitter Relates to Gold: Similarity-Dependent Reward Prediction Errors in the Human Striatum. Journal of Neuroscience, 2012, 32, 16521-16529.	1.7	36
51	Dopamine D2-Receptor Blockade Enhances Decoding of Prefrontal Signals in Humans. Journal of Neuroscience, 2015, 35, 4104-4111.	1.7	36
52	BOLD responses in reward regions to hypothetical and imaginary monetary rewards. NeuroImage, 2012, 59, 1692-1699.	2.1	35
53	Dopaminergic and serotonergic modulation of anterior insular and orbitofrontal cortex function in risky decision making. Neuroscience Research, 2015, 92, 53-61.	1.0	35
54	Partial Adaptation of Obtained and Observed Value Signals Preserves Information about Gains and Losses. Journal of Neuroscience, 2016, 36, 10016-10025.	1.7	35

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55	Investigating the association of ventral and dorsal striatal dysfunction during reward anticipation with negative symptoms in patients with schizophrenia and healthy individuals. PLoS ONE, 2018, 13, e0198215.	1.1	34
56	Deficits in context-dependent adaptive coding of reward in schizophrenia. NPJ Schizophrenia, 2016, 2, 16020.	2.0	33
57	Neuronal signals for reward risk in frontal cortex. Annals of the New York Academy of Sciences, 2011, 1239, 109-117.	1.8	31
58	The cognitive and neural basis of option generation and subsequent choice. Cognitive, Affective and Behavioral Neuroscience, 2013, 13, 814-829.	1.0	31
59	Dopamine Receptor-Specific Contributions to the Computation of Value. Neuropsychopharmacology, 2018, 43, 1415-1424.	2.8	31
60	Reward-dependent modulation of working memory is associated with negative symptoms in schizophrenia. Schizophrenia Research, 2015, 168, 238-244.	1.1	30
61	Prefrontal connections express individual differences in intrinsic resistance to trading off honesty values against economic benefits. Scientific Reports, 2016, 6, 33263.	1.6	30
62	Coding of Reward Probability and Risk by Single Neurons in Animals. Frontiers in Neuroscience, 2011, 5, 121.	1.4	29
63	Testosterone administration does not affect men's rejections of low ultimatum game offers or aggressive mood. Hormones and Behavior, 2017, 87, 1-7.	1.0	29
64	Dopaminergic D1 Receptor Stimulation Affects Effort and Risk Preferences. Biological Psychiatry, 2020, 87, 678-685.	0.7	29
65	Ventral Striatal Dysfunction and Symptom Expression in Individuals With Schizotypal Personality Traits and Early Psychosis. Schizophrenia Bulletin, 2018, 44, sbw142.	2.3	28
66	Testosterone administration increases social discounting in healthy males. Psychoneuroendocrinology, 2019, 108, 127-134.	1.3	28
67	Role of human frontal and supplementary eye fields in double step saccades. NeuroReport, 2002, 13, 253-255.	0.6	27
68	A parametric relief signal in human ventrolateral prefrontal cortex. NeuroImage, 2009, 44, 1163-1170.	2.1	27
69	Apathy in schizophrenia as a deficit in the generation of options for action.. Journal of Abnormal Psychology, 2015, 124, 309-318.	2.0	27
70	Causes of social reward differences encoded in human brain. Journal of Neurophysiology, 2012, 107, 1403-1412.	0.9	25
71	Discrete coding of stimulus value, reward expectation, and reward prediction error in the dorsal striatum. Journal of Neurophysiology, 2015, 114, 2600-2615.	0.9	24
72	Functional organisation of the saccadic reference system processing extraretinal signals in humans. Vision Research, 2001, 41, 1351-1358.	0.7	22

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73	Valuation for Risky and Uncertain Choices. , 2014, , 149-172.		20
74	Surprise beyond prediction error. Human Brain Mapping, 2014, 35, 4805-4814.	1.9	19
75	Efficient learning mechanisms hold in the social domain and are implemented in the medial prefrontal cortex. Social Cognitive and Affective Neuroscience, 2015, 10, 735-743.	1.5	19
76	Motivation for the greater good: neural mechanisms of overcoming costs. Current Opinion in Behavioral Sciences, 2018, 22, 96-105.	2.0	19
77	Deficits in context-dependent adaptive coding in early psychosis and healthy individuals with schizotypal personality traits. Brain, 2018, 141, 2806-2819.	3.7	19
78	Shared and dissociable features of apathy and reward system dysfunction in bipolar I disorder and schizophrenia. Psychological Medicine, 2020, 50, 936-947.	2.7	19
79	Increased random exploration in schizophrenia is associated with inflammation. NPJ Schizophrenia, 2021, 7, 6.	2.0	19
80	The role of moral utility in decision making: An interdisciplinary framework. Cognitive, Affective and Behavioral Neuroscience, 2008, 8, 390-401.	1.0	18
81	Personality-dependent dissociation of absolute and relative loss processing in orbitofrontal cortex. European Journal of Neuroscience, 2008, 27, 1547-1552.	1.2	18
82	Binding oneself to the mast: stimulating frontopolar cortex enhances precommitment. Social Cognitive and Affective Neuroscience, 2017, 12, 635-642.	1.5	18
83	Frontostriatal pathways gate processing of behaviorally relevant reward dimensions. PLoS Biology, 2018, 16, e2005722.	2.6	18
84	Incidental ostracism emerges from simple learning mechanisms. Nature Human Behaviour, 2018, 2, 405-414.	6.2	18
85	Causal role of lateral prefrontal cortex in mental effort and fatigue. Human Brain Mapping, 2020, 41, 4630-4640.	1.9	18
86	Conceptual representations in goal-directed decision making. Cognitive, Affective and Behavioral Neuroscience, 2008, 8, 418-428.	1.0	16
87	Altered reward anticipation: Potential explanation for weight gain in schizophrenia?. Neuroscience and Biobehavioral Reviews, 2017, 75, 91-103.	2.9	16
88	Overcoming Therapeutic Inertia in Multiple Sclerosis Care: A Pilot Randomized Trial Applying the Traffic Light System in Medical Education. Frontiers in Neurology, 2017, 8, 430.	1.1	16
89	Multi-scale neural decoding and analysis. Journal of Neural Engineering, 2021, 18, 045013.	1.8	16
90	Activation of D1 receptors affects human reactivity and flexibility to valued cues. Neuropsychopharmacology, 2020, 45, 780-785.	2.8	16

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91	Understanding consumer decisions using behavioral economics. Progress in Brain Research, 2013, 202, 197-211.	0.9	15
92	Doubt in the Insula: Risk Processing in Obsessive-Compulsive Disorder. Frontiers in Human Neuroscience, 2016, 10, 283.	1.0	15
93	Deficits in reinforcement learning but no link to apathy in patients with schizophrenia. Scientific Reports, 2017, 7, 40352.	1.6	15
94	Testosterone reduces generosity through cortical and subcortical mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
95	Frontopolar theta oscillations link metacognition with prospective decision making. Nature Communications, 2021, 12, 3943.	5.8	15
96	Effects of a virtual gender swap on social and temporal decision-making. Scientific Reports, 2021, 11, 15376.	1.6	15
97	Cerebral blood flow in striatal regions is associated with apathy in patients with schizophrenia. Journal of Psychiatry and Neuroscience, 2019, 44, 102-110.	1.4	15
98	Clinical, behavioural and neural validation of the PANSS amotivation factor. Schizophrenia Research, 2020, 220, 38-45.	1.1	14
99	Neural arbitration between social and individual learning systems. ELife, 2020, 9, .	2.8	14
100	Age-Related Changes in the Role of Social Motivation: Implications for Healthy Aging. Journals of Gerontology - Series B Psychological Sciences and Social Sciences, 2021, 76, S115-S124.	2.4	13
101	Changes in beta and high-gamma power in resting-state electrocorticogram induced by repetitive transcranial magnetic stimulation of primary motor cortex in unanesthetized macaque monkeys. Neuroscience Research, 2021, 171, 41-48.	1.0	13
102	Neural signatures of intransitive preferences. Frontiers in Human Neuroscience, 2010, 4, .	1.0	12
103	Pain relief provided by an outgroup member enhances analgesia. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180501.	1.2	12
104	Testing models at the neural level reveals how the brain computes subjective value. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	12
105	Herding: a new phenomenon affecting medical decision-making in multiple sclerosis care? Lessons learned from DIScUTIR MS. Patient Preference and Adherence, 2017, Volume 11, 175-180.	0.8	11
106	The right temporoparietal junction enables delay of gratification by allowing decision makers to focus on future events. PLoS Biology, 2020, 18, e3000800.	2.6	11
107	Aesthetics and morality judgments share cortical neuroarchitecture. Cortex, 2020, 129, 484-495.	1.1	11
108	The role of oxytocin in delay of gratification and flexibility in non-social decision making. ELife, 2021, 10, .	2.8	11

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109	Association of Optimism with Cardiovascular Events and All-Cause Mortality: Systematic Review and Meta-Analysis. American Journal of Medicine, 2022, 135, 856-863.e2.	0.6	10
110	Toward a Unifying Account of Dopamineâ€™s Role in Cost-Benefit Decision Making. Biological Psychiatry Global Open Science, 2023, 3, 179-186.	1.0	10
111	Practical Implications of Empirically Studying Moral Decision-Making. Frontiers in Neuroscience, 2012, 6, 94.	1.4	9
112	Inequality signals in dorsolateral prefrontal cortex inform social preference models. Social Cognitive and Affective Neuroscience, 2018, 13, 513-524.	1.5	9
113	Effect of an Educational Intervention on Therapeutic Inertia in Neurologists With Expertise in Multiple Sclerosis. JAMA Network Open, 2020, 3, e2022227.	2.8	9
114	Opioid antagonism modulates wanting-related frontostriatal connectivity. ELife, 2021, 10, .	2.8	9
115	Why We Learn Less from Observing Outgroups. Journal of Neuroscience, 2021, 41, 144-152.	1.7	8
116	Effort Mobilization and Healthy Aging. Journals of Gerontology - Series B Psychological Sciences and Social Sciences, 2021, 76, S135-S144.	2.4	8
117	How far to go in deconstructing negative symptoms? Behavioural and neural level evidence for the amotivation domain. Schizophrenia Research, 2021, 236, 41-47.	1.1	8
118	Motivation and Healthy Aging: A Heuristic Model. Journals of Gerontology - Series B Psychological Sciences and Social Sciences, 2021, 76, S97-S104.	2.4	7
119	The Role of Prescribing Generic (Non-proprietary) Drugs in the Prevalence of Therapeutic Inertia in Multiple Sclerosis Care. Frontiers in Neurology, 2018, 9, 835.	1.1	6
120	Traffic Lights Intervention Reduces Therapeutic Inertia: A Randomized Controlled Trial in Multiple Sclerosis Care. MDM Policy and Practice, 2019, 4, 238146831985564.	0.5	6
121	Associations Between Negative Symptoms and Effort Discounting in Patients With Schizophrenia and Major Depressive Disorder. Schizophrenia Bulletin Open, 2021, 2, sgab022.	0.9	6
122	Selective serotonin reuptake inhibitor treatment retunes emotional valence in primate ventral striatum. Neuropsychopharmacology, 2021, 46, 2073-2082.	2.8	6
123	Neuro-computational foundations of moral preferences. Social Cognitive and Affective Neuroscience, 2022, 17, 253-265.	1.5	6
124	Reconciling psychological and neuroscientific accounts of reduced motivation in aging. Social Cognitive and Affective Neuroscience, 2022, 17, 398-407.	1.5	6
125	Overconfidence, Effort, and Investment. SSRN Electronic Journal, 0, , .	0.4	6
126	Cerebellar and cortico-striatal-midbrain contributions to reward-cognition processes and apathy within the psychosis continuum. Schizophrenia Research, 2022, 246, 85-94.	1.1	6

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127	Poster #S165 APATHY BUT NOT DIMINISHED EXPRESSION IN SCHIZOPHRENIA IS ASSOCIATED WITH DISCOUNTING OF MONETARY REWARDS BY PHYSICAL EFFORT. Schizophrenia Research, 2014, 153, S149.	1.1	5
128	Time, Not Size, Matters for Striatal Reward Predictions to Dopamine. Neuron, 2016, 91, 8-11.	3.8	5
129	Ventrolateral Prefrontal Cortex Updates Chosen Value According to Choice Set Size. Journal of Cognitive Neuroscience, 2018, 30, 307-318.	1.1	5
130	Do confident individuals generally work harder?. Journal of Multinational Financial Management, 2018, 44, 51-60.	1.0	4
131	Therapeutic status quo in patients with relapsing-remitting multiple sclerosis: A sign of poor self-perception of their clinical status?. Multiple Sclerosis and Related Disorders, 2020, 45, 102354.	0.9	4
132	Know your weaknesses: Sophisticated impulsiveness motivates voluntary self-restrictions.. Journal of Experimental Psychology: Learning Memory and Cognition, 2020, 46, 1611-1623.	0.7	4
133	Introduction. Cognitive, Affective and Behavioral Neuroscience, 2008, 8, 345-347.	1.0	3
134	State-dependent value representation: evidence from the striatum. Frontiers in Neuroscience, 2014, 8, 193.	1.4	3
135	Usability of an Educational Intervention to Overcome Therapeutic Inertia in Multiple Sclerosis Care. Frontiers in Neurology, 2018, 9, 522.	1.1	3
136	Emotional expressions associated with therapeutic inertia in multiple sclerosis care. Multiple Sclerosis and Related Disorders, 2019, 34, 17-28.	0.9	3
137	Conditional valuation for combinations of goods in primates. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190669.	1.8	3
138	Increased ventral striatal functional connectivity in patients with schizophrenia during reward anticipation. NeuroImage: Clinical, 2022, 33, 102944.	1.4	3
139	Awfully Afraid? Dissociating Decision- from Motor- and Sensory-Related Brain Activation during Perceptual Choices. Journal of Neuroscience, 2007, 27, 6081-6082.	1.7	2
140	Electrophysiological correlates of reward processing in dopamine neurons. , 2009, , 29-50.		2
141	Predicting the imagined contents using brain activation. , 2013, , .		2
142	Bonus schemes and trading activity. Journal of Corporate Finance, 2014, 29, 369-389.	2.7	2
143	On the reproducibility of in vivo temporal <scp>signalâ€toâ€noise</scp> ratio and its utility as a predictor of subjectâ€level tâ€values in a functional magnetic resonance imaging study. International Journal of Imaging Systems and Technology, 2021, 31, 1849-1860.	2.7	2
144	Punishment-based decision making. Frontiers in Neuroscience, 2013, 7, 236.	1.4	0

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145	Poster #T119 REWARD SYSTEM DYSFUNCTION AND NEGATIVE SYMPTOM DIMENSIONS IN SCHIZOPHRENIA. Schizophrenia Research, 2014, 153, S331-S332.	1.1	0
146	Behavioral Functions of Dopamine Neurons. , 2009, , 316-330.		0
147	Decision Making in Frontal Cortex: From Single Units to fMRI. , 2011, , 75-94.		0
148	Bonus Schemes and Trading Activity. SSRN Electronic Journal, 0, , .	0.4	0
149	Does Confidence Predict Out-of-Domain Effort?. SSRN Electronic Journal, 0, , .	0.4	0
150	Does Confidence Predict Out-of-Domain Effort?. SSRN Electronic Journal, 0, , .	0.4	0