Quentin J M Huys

List of Publications by Year
in descending order

98 papers	7,234 citations	71102 41 h-index	66911 78 g-index
111 all docs	111 docs citations	111 times ranked	6173 citing authors

#	Article	IF	Citations
1	Computational psychiatry as a bridge from neuroscience to clinical applications. Nature Neuroscience, 2016, 19, 404-413.	14.8	708
2	Mapping anhedonia onto reinforcement learning: a behavioural meta-analysis. Biology of Mood & Anxiety Disorders, 2013, 3, 12.	4.7	353
3	Go and no-go learning in reward and punishment: Interactions between affect and effect. NeuroImage, 2012, 62, 154-166.	4.2	328
4	Bonsai Trees in Your Head: How the Pavlovian System Sculpts Goal-Directed Choices by Pruning Decision Trees. PLoS Computational Biology, 2012, 8, e1002410.	3.2	314
5	Serotonin in Affective Control. Annual Review of Neuroscience, 2009, 32, 95-126.	10.7	301
6	Disentangling the Roles of Approach, Activation and Valence in Instrumental and Pavlovian Responding. PLoS Computational Biology, 2011, 7, e1002028.	3.2	292
7	Dopamine restores reward prediction errors in old age. Nature Neuroscience, 2013, 16, 648-653.	14.8	233
8	Striatal dysfunction during reversal learning in unmedicated schizophrenia patients. NeuroImage, 2014, 89, 171-180.	4.2	221
9	Action Dominates Valence in Anticipatory Representations in the Human Striatum and Dopaminergic Midbrain. Journal of Neuroscience, 2011, 31, 7867-7875.	3.6	202
10	Serotonin, Inhibition, and Negative Mood. PLoS Computational Biology, 2008, 4, e4.	3.2	200
11	Ventral striatal dopamine reflects behavioral and neural signatures of model-based control during sequential decision making. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1595-1600.	7.1	200
12	Frontal Theta Overrides Pavlovian Learning Biases. Journal of Neuroscience, 2013, 33, 8541-8548.	3.6	168
13	Computational Psychiatry: towards a mathematically informed understanding of mental illness. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, jnnp-2015-310737.	1.9	156
14	Model-Based and Model-Free Decisions in Alcohol Dependence. Neuropsychobiology, 2014, 70, 122-131.	1.9	154
15	Depression: A Decision-Theoretic Analysis. Annual Review of Neuroscience, 2015, 38, 1-23.	10.7	150
16	Interplay of approximate planning strategies. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3098-3103.	7.1	145
17	Charting the landscape of priority problems in psychiatry, part 1: classification and diagnosis. Lancet Psychiatry,the, 2016, 3, 77-83.	7.4	143
18	Machine learning and big data in psychiatry: toward clinical applications. Current Opinion in Neurobiology, 2019, 55, 152-159.	4.2	142

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19	Pavlovian-to-instrumental transfer effects in the nucleus accumbens relate to relapse in alcohol dependence. Addiction Biology, 2016, 21, 719-731.	2.6	136
20	When Habits Are Dangerous: Alcohol Expectancies and Habitual Decision Making Predict Relapse in Alcohol Dependence. Biological Psychiatry, 2017, 82, 847-856.	1.3	133
21	A Bayesian formulation of behavioral control. Cognition, 2009, 113, 314-328.	2.2	113
22	Efficient Estimation of Detailed Single-Neuron Models. Journal of Neurophysiology, 2006, 96, 872-890.	1.8	112
23	The anchoring bias reflects rational use of cognitive resources. Psychonomic Bulletin and Review, 2018, 25, 322-349.	2.8	112
24	Personalized prediction of antidepressant v. placebo response: evidence from the EMBARC study. Psychological Medicine, 2019, 49, 1118-1127.	4.5	109
25	Ventral striatal prediction error signaling is associated with dopamine synthesis capacity and fluid intelligence. Human Brain Mapping, 2013, 34, 1490-1499.	3.6	94
26	Are computational models of any use to psychiatry?. Neural Networks, 2011, 24, 544-551.	5.9	93
27	Aversive Pavlovian Control of Instrumental Behavior in Humans. Journal of Cognitive Neuroscience, 2013, 25, 1428-1441.	2.3	92
28	Differential, but not opponent, effects of l-DOPA and citalopram on action learning with reward and punishment. Psychopharmacology, 2014, 231, 955-966.	3.1	89
29	Neural Correlates of Three Promising Endophenotypes of Depression: Evidence from the EMBARC Study. Neuropsychopharmacology, 2016, 41, 454-463.	5.4	84
30	Pavlovian-to-Instrumental Transfer in Alcohol Dependence: A Pilot Study. Neuropsychobiology, 2014, 70, 111-121.	1.9	76
31	Smoothing of, and Parameter Estimation from, Noisy Biophysical Recordings. PLoS Computational Biology, 2009, 5, e1000379.	3.2	74
32	The role of learning-related dopamine signals in addiction vulnerability. Progress in Brain Research, 2014, 211, 31-77.	1.4	72
33	Advances in the computational understanding of mental illness. Neuropsychopharmacology, 2021, 46, 3-19.	5.4	70
34	Processing speed enhances model-based over model-free reinforcement learning in the presence of high working memory functioning. Frontiers in Psychology, 2014, 5, 1450.	2.1	68
35	A Roadmap for the Development of Applied Computational Psychiatry. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2016, 1, 386-392.	1.5	60
36	Decision-Theoretic Psychiatry. Clinical Psychological Science, 2015, 3, 400-421.	4.0	58

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37	Serotonin and Aversive Pavlovian Control of Instrumental Behavior in Humans. Journal of Neuroscience, 2013, 33, 18932-18939.	3.6	56
38	No association of goal‐directed and habitual control with alcohol consumption in young adults. Addiction Biology, 2018, 23, 379-393.	2.6	56
39	Computational Mechanisms of Effort and Reward Decisions in Patients With Depression and Their Association With Relapse After Antidepressant Discontinuation. JAMA Psychiatry, 2020, 77, 513.	11.0	53
40	Fast Population Coding. Neural Computation, 2007, 19, 404-441.	2.2	51
41	Dissociating neural learning signals in human sign- and goal-trackers. Nature Human Behaviour, 2020, 4, 201-214.	12.0	51
42	Charting the landscape of priority problems in psychiatry, part 2: pathogenesis and aetiology. Lancet Psychiatry,the, 2016, 3, 84-90.	7.4	46
43	Chronic alcohol intake abolishes the relationship between dopamine synthesis capacity and learning signals in the ventral striatum. European Journal of Neuroscience, 2015, 41, 477-486.	2.6	45
44	Don't Think, Just Feel the Music: Individuals with Strong Pavlovian-to-Instrumental Transfer Effects Rely Less on Model-based Reinforcement Learning. Journal of Cognitive Neuroscience, 2016, 28, 985-995.	2.3	42
45	Realizing the Clinical Potential of Computational Psychiatry: Report From the Banbury Center Meeting, February 2019. Biological Psychiatry, 2020, 88, e5-e10.	1.3	36
46	Optimism as a Prior Belief about the Probability of Future Reward. PLoS Computational Biology, 2014, 10, e1003605.	3.2	35
47	Self-regulation of the dopaminergic reward circuit in cocaine users with mental imagery and neurofeedback. EBioMedicine, 2018, 37, 489-498.	6.1	35
48	Theory-Based Computational Psychiatry. Biological Psychiatry, 2017, 82, 382-384.	1.3	34
49	Serotonin's many meanings elude simple theories. ELife, 2015, 4, .	6.0	34
50	Value-based decision-making battery: A Bayesian adaptive approach to assess impulsive and risky behavior. Behavior Research Methods, 2018, 50, 236-249.	4.0	31
51	Individual differences in bodily freezing predict emotional biases in decision making. Frontiers in Behavioral Neuroscience, 2014, 8, 237.	2.0	30
52	Neural correlates of instrumental responding in the context of alcohol-related cues index disorder severity and relapse risk. European Archives of Psychiatry and Clinical Neuroscience, 2019, 269, 295-308.	3.2	30
53	Psychiatric Illnesses as Disorders of Network Dynamics. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 6, 865-876.	1.5	27
54	Major Depression Impairs the Use of Reward Values for Decision-Making. Scientific Reports, 2018, 8, 13798.	3.3	26

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55	Model-Based and Model-Free Control Predicts Alcohol Consumption Developmental Trajectory in Young Adults: A 3-Year Prospective Study. Biological Psychiatry, 2021, 89, 980-989.	1.3	25
56	A Formal Valuation Framework for Emotions andÂTheir Control. Biological Psychiatry, 2017, 82, 413-420.	1.3	24
57	Pavlovian-To-Instrumental Transfer and Alcohol Consumption in Young Male Social Drinkers: Behavioral, Neural and Polygenic Correlates. Journal of Clinical Medicine, 2019, 8, 1188.	2.4	24
58	How representative are neuroimaging samples? Large-scale evidence for trait anxiety differences between fMRI and behaviour-only research participants. Social Cognitive and Affective Neuroscience, 2021, 16, 1057-1070.	3.0	24
59	Encoding and Decoding Spikes for Dynamic Stimuli. Neural Computation, 2008, 20, 2325-2360.	2.2	23
60	Dysfunctional approach behavior triggered by alcoholâ€unrelated Pavlovian cues predicts longâ€term relapse in alcohol dependence. Addiction Biology, 2020, 25, e12703.	2.6	23
61	Empirical evidence for resource-rational anchoring and adjustment. Psychonomic Bulletin and Review, 2018, 25, 775-784.	2.8	22
62	Stimulation of the vagus nerve reduces learning in a go/no-go reinforcement learning task. European Neuropsychopharmacology, 2020, 35, 17-29.	0.7	21
63	Advancing Clinical Improvements for Patients Using the Theory-Driven and Data-Driven Branches of Computational Psychiatry. JAMA Psychiatry, 2018, 75, 225.	11.0	20
64	Deficits in context-dependent adaptive coding in early psychosis and healthy individuals with schizotypal personality traits. Brain, 2018, 141, 2806-2819.	7.6	19
65	Computational Psychiatry: From Mechanistic Insights to the Development of New Treatments. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2016, 1, 382-385.	1.5	18
66	The Neural Basis of Aversive Pavlovian Guidance during Planning. Journal of Neuroscience, 2017, 37, 10215-10229.	3.6	15
67	The effects of life stress and neural learning signals on fluid intelligence. European Archives of Psychiatry and Clinical Neuroscience, 2015, 265, 35-43.	3.2	14
68	Generalization and Search in Risky Environments. Cognitive Science, 2018, 42, 2592-2620.	1.7	14
69	The relationship between resting-state functional connectivity, antidepressant discontinuation and depression relapse. Scientific Reports, 2020, 10, 22346.	3.3	14
70	Model-Free Temporal-Difference Learning and Dopamine in Alcohol Dependence: Examining Concepts From Theory and Animals in Human Imaging. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2016, 1, 401-410.	1.5	12
71	Susceptibility to interference between Pavlovian and instrumental control is associated with early hazardous alcohol use. Addiction Biology, 2021, 26, e12983.	2.6	11
72	Drunk decisions: Alcohol shifts choice from habitual towards goal-directed control in adolescent intermediate-risk drinkers. Journal of Psychopharmacology, 2018, 32, 855-866.	4.0	10

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73	Neuro-cognitive processes as mediators of psychological treatment effects. Current Opinion in Behavioral Sciences, 2021, 38, 103-109.	3.9	10
74	From Computation to Clinic. Biological Psychiatry Global Open Science, 2023, 3, 319-328.	2.2	10
75	Reward-Based Learning, Model-Based and Model-Free. , 2014, , 1-10.		9
76	No substantial change in the balance between model-free and model-based control via training on the two-step task. PLoS Computational Biology, 2019, 15, e1007443.	3.2	9
77	The Importance of Standards for Sharing of Computational Models and Data. Computational Brain & Behavior, 2019, 2, 229-232.	1.7	9
78	Association of the <i>OPRM1</i> A118G polymorphism and Pavlovian-to-instrumental transfer: Clinical relevance for alcohol dependence. Journal of Psychopharmacology, 2021, 35, 566-578.	4.0	9
79	Explaining distortions in metacognition with an attractor network model of decision uncertainty. PLoS Computational Biology, 2021, 17, e1009201.	3.2	9
80	Humans perseverate on punishment avoidance goals in multigoal reinforcement learning. ELife, 2022, 11, .	6.0	7
81	Canonical Correlation Analysis for Identifying Biotypes of Depression. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 478-480.	1.5	6
82	A Computational View on the Nature of Reward and Value in Anhedonia. Current Topics in Behavioral Neurosciences, 2022, , 421-441.	1.7	6
83	Bayesian Approaches to Learning and Decision-Making. , 2018, , 247-271.		5
84	Alcohol Approach Bias Is Associated With Both Behavioral and Neural Pavlovian-to-Instrumental Transfer Effects in Alcohol-Dependent Patients. Biological Psychiatry Global Open Science, 2023, 3, 443-450.	2.2	5
85	German Translation and Validation of the Cognitive Style Questionnaire Short Form (CSQ-SF-D). PLoS ONE, 2016, 11, e0149530.	2.5	4
86	Opportunities for emotion and mental health research in the resource-rationality framework. Behavioral and Brain Sciences, 2020, 43, e21.	0.7	3
87	A comparison of â€˜pruningâ€™ during multi-step planning in depressed and healthy individuals. Psychological Medicine, 2022, 52, 3948-3956.	4.5	2
88	Computational Psychiatry. , 2013, , 1-10.		2
89	Low predictive power of clinical features for relapse prediction after antidepressant discontinuation in a naturalistic setting. Scientific Reports, 2022, 12, .	3.3	2
90	Computational Psychiatry Series. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 835-836.	1.5	1

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91	Computational Psychiatry. , 2014, , 1-10.		1
92	Screening Patients with Sensorineural Hearing Loss for Vestibular Schwannoma Using a Bayesian Classifier. Skull Base, 2007, 17, .	0.4	0
93	Reward-Based Learning, Model-Based and Model-Free. , 2019, , 1-9.		0
94	Stronger Prejudices Are Associated With Decreased Model-Based Control. Frontiers in Psychology, 2021, 12, 767022.	2.1	0
95	Is there mathematics to madness?. Brain, 0, , .	7.6	0
96	Mortality Awareness: New Directions. Omega: Journal of Death and Dying, 2022, , 003022282211006.	1.0	0
97	Computational Psychiatry. , 2022, , 944-952.		0
98	Reward-Based Learning, Model-Based and Model-Free. , 2022, , 3042-3050.		0