

Ben Seymour

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.

92
papers

16,285
citations

46
h-index

127
g-index

133
ext. papers

18,676
ext. citations

11.2
avg, IF

6.48
L-index

#	Paper	IF	Citations
92	Empathy for pain involves the affective but not sensory components of pain. <i>Science</i> , 2004 , 303, 1157-62	33.3	2770
91	Cortical substrates for exploratory decisions in humans. <i>Nature</i> , 2006 , 441, 876-9	50.4	1390
90	Empathic neural responses are modulated by the perceived fairness of others. <i>Nature</i> , 2006 , 439, 466-9	50.4	1233
89	Dopamine-dependent prediction errors underpin reward-seeking behaviour in humans. <i>Nature</i> , 2006 , 442, 1042-5	50.4	1117
88	Model-based influences on human choices and striatal prediction errors. <i>Neuron</i> , 2011 , 69, 1204-15	13.9	1004
87	Frames, biases, and rational decision-making in the human brain. <i>Science</i> , 2006 , 313, 684-7	33.3	977
86	When fear is near: threat imminence elicits prefrontal-periaqueductal gray shifts in humans. <i>Science</i> , 2007 , 317, 1079-83	33.3	639
85	Temporal difference models describe higher-order learning in humans. <i>Nature</i> , 2004 , 429, 664-7	50.4	488
84	Context-dependent human extinction memory is mediated by a ventromedial prefrontal and hippocampal network. <i>Journal of Neuroscience</i> , 2006 , 26, 9503-11	6.6	402
83	Differential encoding of losses and gains in the human striatum. <i>Journal of Neuroscience</i> , 2007 , 27, 4826-31	6.6	356
82	Opponent appetitive-aversive neural processes underlie predictive learning of pain relief. <i>Nature Neuroscience</i> , 2005 , 8, 1234-40	25.5	340
81	From threat to fear: the neural organization of defensive fear systems in humans. <i>Journal of Neuroscience</i> , 2009 , 29, 12236-43	6.6	303
80	Predictive neural coding of reward preference involves dissociable responses in human ventral midbrain and ventral striatum. <i>Neuron</i> , 2006 , 49, 157-66	13.9	258
79	The misbehavior of value and the discipline of the will. <i>Neural Networks</i> , 2006 , 19, 1153-60	9.1	257
78	Anxiety reduction through detachment: subjective, physiological, and neural effects. <i>Journal of Cognitive Neuroscience</i> , 2005 , 17, 874-83	3.1	246
77	The role of human orbitofrontal cortex in value comparison for incommensurable objects. <i>Journal of Neuroscience</i> , 2009 , 29, 8388-95	6.6	229
76	Human pavlovian-instrumental transfer. <i>Journal of Neuroscience</i> , 2008 , 28, 360-8	6.6	225

75	Dopamine, time, and impulsivity in humans. <i>Journal of Neuroscience</i> , 2010 , 30, 8888-96	6.6	206
74	Emotion, decision making, and the amygdala. <i>Neuron</i> , 2008 , 58, 662-71	13.9	201
73	A key role for similarity in vicarious reward. <i>Science</i> , 2009 , 324, 900	33.3	194
72	Choosing to make an effort: the role of striatum in signaling physical effort of a chosen action. <i>Journal of Neurophysiology</i> , 2010 , 104, 313-21	3.2	184
71	The neurobiology of punishment. <i>Nature Reviews Neuroscience</i> , 2007 , 8, 300-11	13.5	180
70	Striatal activity underlies novelty-based choice in humans. <i>Neuron</i> , 2008 , 58, 967-73	13.9	171
69	A genetically mediated bias in decision making driven by failure of amygdala control. <i>Journal of Neuroscience</i> , 2009 , 29, 5985-91	6.6	165
68	Encoding of marginal utility across time in the human brain. <i>Journal of Neuroscience</i> , 2009 , 29, 9575-81	6.6	163
67	Serotonin selectively modulates reward value in human decision-making. <i>Journal of Neuroscience</i> , 2012 , 32, 5833-42	6.6	161
66	Neural mechanisms of belief inference during cooperative games. <i>Journal of Neuroscience</i> , 2010 , 30, 10744-51	6.6	144
65	Does temporal discounting explain unhealthy behavior? A systematic review and reinforcement learning perspective. <i>Frontiers in Behavioral Neuroscience</i> , 2014 , 8, 76	3.5	141
64	Modulation of pain ratings by expectation and uncertainty: Behavioral characteristics and anticipatory neural correlates. <i>Pain</i> , 2008 , 135, 240-250	8	137
63	Modulation of pain processing in hyperalgesia by cognitive demand. <i>NeuroImage</i> , 2005 , 27, 59-69	7.9	127
62	Dopamine and performance in a reinforcement learning task: evidence from Parkinson's disease. <i>Brain</i> , 2012 , 135, 1871-83	11.2	115
61	Contingency awareness in human aversive conditioning involves the middle frontal gyrus. <i>NeuroImage</i> , 2006 , 29, 1007-12	7.9	105
60	Disrupted habenula function in major depression. <i>Molecular Psychiatry</i> , 2017 , 22, 202-208	15.1	104
59	Neural activity associated with the passive prediction of ambiguity and risk for aversive events. <i>Journal of Neuroscience</i> , 2009 , 29, 1648-56	6.6	95
58	The habenula encodes negative motivational value associated with primary punishment in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11858-63	11.5	93

57	Blocking central opiate function modulates hedonic impact and anterior cingulate response to rewards and losses. <i>Journal of Neuroscience</i> , 2008 , 28, 10509-16	6.6	93
56	Anchors, scales and the relative coding of value in the brain. <i>Current Opinion in Neurobiology</i> , 2008 , 18, 173-8	7.6	92
55	Choking on the money: reward-based performance decrements are associated with midbrain activity. <i>Psychological Science</i> , 2009 , 20, 955-62	7.9	71
54	Uncertainty increases pain: evidence for a novel mechanism of pain modulation involving the periaqueductal gray. <i>Journal of Neuroscience</i> , 2013 , 33, 5638-46	6.6	69
53	Fear reduction without fear through reinforcement of neural activity that bypasses conscious exposure. <i>Nature Human Behaviour</i> , 2016 , 1,	12.8	62
52	The neural signature of escalating frustration in humans. <i>Cortex</i> , 2014 , 54, 165-78	3.8	62
51	Modulating the pain network--neurostimulation for central poststroke pain. <i>Nature Reviews Neurology</i> , 2015 , 11, 290-9	15	59
50	Confidence in beliefs about pain predicts expectancy effects on pain perception and anticipatory processing in right anterior insula. <i>Pain</i> , 2008 , 139, 324-332	8	54
49	The price of pain and the value of suffering. <i>Psychological Science</i> , 2009 , 20, 309-17	7.9	53
48	Converging evidence for central 5-HT effects in acute tryptophan depletion. <i>Molecular Psychiatry</i> , 2012 , 17, 121-3	15.1	51
47	Induced sensorimotor brain plasticity controls pain in phantom limb patients. <i>Nature Communications</i> , 2016 , 7, 13209	17.4	49
46	Dissociable Learning Processes Underlie Human Pain Conditioning. <i>Current Biology</i> , 2016 , 26, 52-8	6.3	44
45	Classification and characterisation of brain network changes in chronic back pain: A multicenter study. <i>Wellcome Open Research</i> , 2018 , 3, 19	4.8	42
44	Differentiable neural substrates for learned and described value and risk. <i>Current Biology</i> , 2010 , 20, 1823-9	6.9	41
43	Distinct Contributions of Ventromedial and Dorsolateral Subregions of the Human Substantia Nigra to Appetitive and Aversive Learning. <i>Journal of Neuroscience</i> , 2015 , 35, 14220-33	6.6	40
42	A prediction model of working memory across health and psychiatric disease using whole-brain functional connectivity. <i>ELife</i> , 2018 , 7,	8.9	40
41	Decoding the matrix: benefits and limitations of applying machine learning algorithms to pain neuroimaging. <i>Pain</i> , 2014 , 155, 864-867	8	37
40	Insula and striatum mediate the default bias. <i>Journal of Neuroscience</i> , 2010 , 30, 14702-7	6.6	35

39	Pain: A Precision Signal for Reinforcement Learning and Control. <i>Neuron</i> , 2019 , 101, 1029-1041	13.9	28
38	Dread and the disvalue of future pain. <i>PLoS Computational Biology</i> , 2013 , 9, e1003335	5	28
37	Relative valuation of pain in human orbitofrontal cortex. <i>Journal of Neuroscience</i> , 2014 , 34, 14526-35	6.6	25
36	The effect of motivation on movement: a study of bradykinesia in Parkinson's disease. <i>PLoS ONE</i> , 2012 , 7, e47138	3.7	23
35	Values and Actions in Aversion 2009 , 175-191		22
34	Pain: a distributed brain information network?. <i>PLoS Biology</i> , 2015 , 13, e1002037	9.7	21
33	Classification and characterisation of brain network changes in chronic back pain: A multicenter study. <i>Wellcome Open Research</i> , 2018 , 3, 19	4.8	21
32	When is a loss a loss? Excitatory and inhibitory processes in loss-related decision-making. <i>Current Opinion in Behavioral Sciences</i> , 2015 , 5, 122-127	4	16
31	Value generalization in human avoidance learning. <i>ELife</i> , 2018 , 7,	8.9	16
30	Pain relativity in motor control. <i>Psychological Science</i> , 2010 , 21, 840-7	7.9	14
29	Deep brain stimulation of the subthalamic nucleus modulates sensitivity to decision outcome value in Parkinson's disease. <i>Scientific Reports</i> , 2016 , 6, 32509	4.9	12
28	Model-based and model-free pain avoidance learning. <i>Brain and Neuroscience Advances</i> , 2018 , 2, 2398212818772964		
27	Pain Control by Co-adaptive Learning in a Brain-Machine Interface. <i>Current Biology</i> , 2020 , 30, 3935-3944.63		11
26	The control of tonic pain by active relief learning. <i>ELife</i> , 2018 , 7,	8.9	11
25	Technology for chronic pain. <i>Current Biology</i> , 2014 , 24, R930-R935	6.3	10
24	Accounting for Behavior in Treatment Effects: New Applications for Blind Trials. <i>PLoS ONE</i> , 2015 , 10, e0127227	3.7	10
23	Parallel reward and punishment control in humans and robots: Safe reinforcement learning using the MaxPain algorithm 2017 ,		9
22	Thermosensory Perceptual Learning Is Associated with Structural Brain Changes in Parietal-Opercular (SII) Cortex. <i>Journal of Neuroscience</i> , 2017 , 37, 9380-9388	6.6	8

21	Can, and should, behavioural neuroscience influence public policy?. <i>Trends in Cognitive Sciences</i> , 2012 , 16, 449-51	14	7
20	Altruistic learning. <i>Frontiers in Behavioral Neuroscience</i> , 2009 , 3, 23	3.5	7
19	Decision-making in brains and robots [The case for an interdisciplinary approach. <i>Current Opinion in Behavioral Sciences</i> , 2019 , 26, 137-145	4	6
18	Resting-state Amplitude of Low-frequency Fluctuation is a Potentially Useful Prognostic Functional Biomarker in Cervical Myelopathy. <i>Clinical Orthopaedics and Related Research</i> , 2020 , 478, 1667-1680	2.2	6
17	Anterior cingulate cortex connectivity is associated with suppression of behaviour in a rat model of chronic pain. <i>Brain and Neuroscience Advances</i> , 2018 , 2, 2398212818779646	4	6
16	Decoding acute pain with combined EEG and physiological data 2017 ,		5
15	An Evolutionarily Threat-Relevant Odor Strengthens Human Fear Memory. <i>Frontiers in Neuroscience</i> , 2020 , 14, 255	5.1	4
14	Prices need no preferences: social trends determine decisions in experimental markets for pain relief. <i>Health Psychology</i> , 2014 , 33, 66-76	5	4
13	Toward high-performance, memory-efficient, and fast reinforcement learning-Lessons from decision neuroscience. <i>Science Robotics</i> , 2019 , 4,	18.6	4
12	Anticipation and choice heuristics in the dynamic consumption of pain relief. <i>PLoS Computational Biology</i> , 2015 , 11, e1004030	5	3
11	MEG-BMI to Control Phantom Limb Pain. <i>Neurologia Medico-Chirurgica</i> , 2018 , 58, 327-333	2.6	3
10	Response heterogeneity: Challenges for personalised medicine and big data approaches in psychiatry and chronic pain. <i>F1000Research</i> , 2018 , 7, 55	3.6	3
9	BCI training to move a virtual hand reduces phantom limb pain: A randomized crossover trial. <i>Neurology</i> , 2020 , 95, e417-e426	6.5	3
8	Hierarchical models of pain: Inference, information-seeking, and adaptive control. <i>NeuroImage</i> , 2020 , 222, 117212	7.9	3
7	Decisions about decisions. <i>Neuron</i> , 2014 , 81, 468-70	13.9	2
6	State-dependent value representation: evidence from the striatum. <i>Frontiers in Neuroscience</i> , 2014 , 8, 193	5.1	2
5	The maladaptive brain: excitable pathways to chronic pain. <i>Brain</i> , 2012 , 135, 316-8	11.2	2
4	Carry on eating: neural pathways mediating conditioned potentiation of feeding. <i>Journal of Neuroscience</i> , 2006 , 26, 1061-2; discussion 1062	6.6	2

- 3 Author response: A prediction model of working memory across health and psychiatric disease using whole-brain functional connectivity **2018**, 2
- 2 Pain and self-preservation in autonomous robots: From neurobiological models to psychiatric disease **2017**, 1
- 1 Research loses in hasty changes to medical training. *Nature*, **2007**, 446, 492 50.4