

# Ben Seymour

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

20,180  
citations

38742

50  
h-index

51608

86  
g-index

133  
all docs

133  
docs citations

133  
times ranked

15505  
citing authors

#	ARTICLE	IF	CITATIONS
1	BCI training to move a virtual hand reduces phantom limb pain. <i>Neurology</i> , 2020, 95, e417-e426.	1.1	16
2	Hierarchical models of pain: Inference, information-seeking, and adaptive control.. <i>NeuroImage</i> , 2020, 222, 117212.	4.2	27
3	Pain Control by Co-adaptive Learning in a Brain-Machine Interface. <i>Current Biology</i> , 2020, 30, 3935-3944.e7.	3.9	28
4	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.	1.5	23
5	An Evolutionarily Threat-Relevant Odor Strengthens Human Fear Memory. <i>Frontiers in Neuroscience</i> , 2020, 14, 255.	2.8	5
6	Pain: A Precision Signal for Reinforcement Learning and Control. <i>Neuron</i> , 2019, 101, 1029-1041.	8.1	79
7	Decision-making in brains and robots “the case for an interdisciplinary approach. <i>Current Opinion in Behavioral Sciences</i> , 2019, 26, 137-145.	3.9	8
8	Toward high-performance, memory-efficient, and fast reinforcement learning“Lessons from decision neuroscience. <i>Science Robotics</i> , 2019, 4, .	17.6	8
9	Classification and characterisation of brain network changes in chronic back pain: A multicenter study. <i>Wellcome Open Research</i> , 2018, 3, 19.	1.8	58
10	Classification and characterisation of brain network changes in chronic back pain: A multicenter study. <i>Wellcome Open Research</i> , 2018, 3, 19.	1.8	28
11	The control of tonic pain by active relief learning. <i>ELife</i> , 2018, 7, .	6.0	21
12	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, 239821281877964.	3.4	9
13	MEG“BMI to Control Phantom Limb Pain. <i>Neurologia Medico-Chirurgica</i> , 2018, 58, 327-333.	2.2	8
14	Model-based and model-free pain avoidance learning. <i>Brain and Neuroscience Advances</i> , 2018, 2, 239821281877296.	3.4	19
15	Response heterogeneity: Challenges for personalised medicine and big data approaches in psychiatry and chronic pain. <i>F1000Research</i> , 2018, 7, 55.	1.6	3
16	Value generalization in human avoidance learning. <i>ELife</i> , 2018, 7, .	6.0	34
17	A prediction model of working memory across health and psychiatric disease using whole-brain functional connectivity. <i>ELife</i> , 2018, 7, .	6.0	73
18	Disrupted habenula function in major depression. <i>Molecular Psychiatry</i> , 2017, 22, 202-208.	7.9	147

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19	Thermosensory Perceptual Learning Is Associated with Structural Brain Changes in Parietalâ€“Opercular (SII) Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 9380-9388.	3.6	14
20	Fear reduction without fear through reinforcement of neural activity that bypasses conscious exposure. <i>Nature Human Behaviour</i> , 2017, 1, .	12.0	113
21	Decoding acute pain with combined EEG and physiological data. , 2017, , .		10
22	Pain and self-preservation in autonomous robots: From neurobiological models to psychiatric disease. , 2017, , .		1
23	Parallel reward and punishment control in humans and robots: Safe reinforcement learning using the MaxPain algorithm. , 2017, , .		13
24	Induced sensorimotor brain plasticity controls pain in phantom limb patients. <i>Nature Communications</i> , 2016, 7, 13209.	12.8	69
25	Deep brain stimulation of the subthalamic nucleus modulates sensitivity to decision outcome value in Parkinsonâ€™s disease. <i>Scientific Reports</i> , 2016, 6, 32509.	3.3	17
26	Dissociable Learning Processes Underlie Human Pain Conditioning. <i>Current Biology</i> , 2016, 26, 52-58.	3.9	70
27	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.	3.9	18
28	Accounting for Behavior in Treatment Effects: New Applications for Blind Trials. <i>PLoS ONE</i> , 2015, 10, e0127227.	2.5	17
29	Pain: A Distributed Brain Information Network?. <i>PLoS Biology</i> , 2015, 13, e1002037.	5.6	36
30	Anticipation and Choice Heuristics in the Dynamic Consumption of Pain Relief. <i>PLoS Computational Biology</i> , 2015, 11, e1004030.	3.2	4
31	Modulating the pain networkâ€™ neurostimulation for central poststroke pain. <i>Nature Reviews Neurology</i> , 2015, 11, 290-299.	10.1	90
32	Distinct Contributions of Ventromedial and Dorsolateral Subregions of the Human Substantia Nigra to Appetitive and Aversive Learning. <i>Journal of Neuroscience</i> , 2015, 35, 14220-14233.	3.6	62
33	Does temporal discounting explain unhealthy behavior? A systematic review and reinforcement learning perspective. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 76.	2.0	185
34	State-dependent value representation: evidence from the striatum. <i>Frontiers in Neuroscience</i> , 2014, 8, 193.	2.8	3
35	Relative Valuation of Pain in Human Orbitofrontal Cortex. <i>Journal of Neuroscience</i> , 2014, 34, 14526-14535.	3.6	43
36	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, 11858-11863.	7.1	116

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37	The neural signature of escalating frustration in humans. <i>Cortex</i> , 2014, 54, 165-178.	2.4	77
38	Decisions about Decisions. <i>Neuron</i> , 2014, 81, 468-470.	8.1	2
39	Technology for Chronic Pain. <i>Current Biology</i> , 2014, 24, R930-R935.	3.9	13
40	Decoding the matrix: Benefits and limitations of applying machine learning algorithms to pain neuroimaging. <i>Pain</i> , 2014, 155, 864-867.	4.2	44
41	Prices need no preferences: Social trends determine decisions in experimental markets for pain relief.. <i>Health Psychology</i> , 2014, 33, 66-76.	1.6	7
42	Uncertainty Increases Pain: Evidence for a Novel Mechanism of Pain Modulation Involving the Periaqueductal Gray. <i>Journal of Neuroscience</i> , 2013, 33, 5638-5646.	3.6	109
43	Dread and the Disvalue of Future Pain. <i>PLoS Computational Biology</i> , 2013, 9, e1003335.	3.2	38
44	Serotonin Selectively Modulates Reward Value in Human Decision-Making. <i>Journal of Neuroscience</i> , 2012, 32, 5833-5842.	3.6	211
45	Dopamine and performance in a reinforcement learning task: evidence from Parkinson's disease. <i>Brain</i> , 2012, 135, 1871-1883.	7.6	137
46	Converging evidence for central 5-HT effects in acute tryptophan depletion. <i>Molecular Psychiatry</i> , 2012, 17, 121-123.	7.9	66
47	The maladaptive brain: excitable pathways to chronic pain. <i>Brain</i> , 2012, 135, 316-318.	7.6	4
48	Can, and should, behavioural neuroscience influence public policy?. <i>Trends in Cognitive Sciences</i> , 2012, 16, 449-451.	7.8	8
49	The Effect of Motivation on Movement: A Study of Bradykinesia in Parkinson's Disease. <i>PLoS ONE</i> , 2012, 7, e47138.	2.5	28
50	Altruistic Learning. , 2012, , 208-210.		0
51	Model-Based Influences on Humans' Choices and Striatal Prediction Errors. <i>Neuron</i> , 2011, 69, 1204-1215.	8.1	1,388
52	Differentiable Neural Substrates for Learned and Described Value and Risk. <i>Current Biology</i> , 2010, 20, 1823-1829.	3.9	60
53	Choosing to Make an Effort: The Role of Striatum in Signaling Physical Effort of a Chosen Action. <i>Journal of Neurophysiology</i> , 2010, 104, 313-321.	1.8	213
54	Pain Relativity in Motor Control. <i>Psychological Science</i> , 2010, 21, 840-847.	3.3	16

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55	Neural Mechanisms of Belief Inference during Cooperative Games. <i>Journal of Neuroscience</i> , 2010, 30, 10744-10751.	3.6	169
56	Insula and Striatum Mediate the Default Bias. <i>Journal of Neuroscience</i> , 2010, 30, 14702-14707.	3.6	39
57	Dopamine, Time, and Impulsivity in Humans. <i>Journal of Neuroscience</i> , 2010, 30, 8888-8896.	3.6	256
58	Altruistic Learning. <i>Frontiers in Behavioral Neuroscience</i> , 2009, 3, 23.	2.0	8
59	Neural Activity Associated with the Passive Prediction of Ambiguity and Risk for Aversive Events. <i>Journal of Neuroscience</i> , 2009, 29, 1648-1656.	3.6	114
60	From Threat to Fear: The Neural Organization of Defensive Fear Systems in Humans. <i>Journal of Neuroscience</i> , 2009, 29, 12236-12243.	3.6	384
61	Encoding of Marginal Utility across Time in the Human Brain. <i>Journal of Neuroscience</i> , 2009, 29, 9575-9581.	3.6	183
62	A Genetically Mediated Bias in Decision Making Driven by Failure of Amygdala Control. <i>Journal of Neuroscience</i> , 2009, 29, 5985-5991.	3.6	183
63	The Role of Human Orbitofrontal Cortex in Value Comparison for Incommensurable Objects. <i>Journal of Neuroscience</i> , 2009, 29, 8388-8395.	3.6	260
64	Choking on the Money. <i>Psychological Science</i> , 2009, 20, 955-962.	3.3	81
65	A Key Role for Similarity in Vicarious Reward. <i>Science</i> , 2009, 324, 900-900.	12.6	230
66	The Price of Pain and the Value of Suffering. <i>Psychological Science</i> , 2009, 20, 309-317.	3.3	73
67	Values and Actions in Aversion. , 2009, , 175-191.		36
68	Anchors, scales and the relative coding of value in the brain. <i>Current Opinion in Neurobiology</i> , 2008, 18, 173-178.	4.2	124
69	Striatal Activity Underlies Novelty-Based Choice in Humans. <i>Neuron</i> , 2008, 58, 967-973.	8.1	210
70	Emotion, Decision Making, and the Amygdala. <i>Neuron</i> , 2008, 58, 662-671.	8.1	253
71	Modulation of pain ratings by expectation and uncertainty: Behavioral characteristics and anticipatory neural correlates. <i>Pain</i> , 2008, 135, 240-250.	4.2	173
72	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.	4.2	69

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73	Blocking Central Opiate Function Modulates Hedonic Impact and Anterior Cingulate Response to Rewards and Losses. <i>Journal of Neuroscience</i> , 2008, 28, 10509-10516.	3.6	101
74	Human Pavlovianâ€“Instrumental Transfer. <i>Journal of Neuroscience</i> , 2008, 28, 360-368.	3.6	264
75	When Fear Is Near: Threat Imminence Elicits Prefrontal-Periaqueductal Gray Shifts in Humans. <i>Science</i> , 2007, 317, 1079-1083.	12.6	798
76	Differential Encoding of Losses and Gains in the Human Striatum. <i>Journal of Neuroscience</i> , 2007, 27, 4826-4831.	3.6	396
77	Research loses in hasty changes to medical training. <i>Nature</i> , 2007, 446, 492-492.	27.8	0
78	The neurobiology of punishment. <i>Nature Reviews Neuroscience</i> , 2007, 8, 300-311.	10.2	210
79	Contingency awareness in human aversive conditioning involves the middle frontal gyrus. <i>NeuroImage</i> , 2006, 29, 1007-1012.	4.2	125
80	Predictive Neural Coding of Reward Preference Involves Dissociable Responses in Human Ventral Midbrain and Ventral Striatum. <i>Neuron</i> , 2006, 49, 157-166.	8.1	286
81	Empathic neural responses are modulated by the perceived fairness of others. <i>Nature</i> , 2006, 439, 466-469.	27.8	1,470
82	Cortical substrates for exploratory decisions in humans. <i>Nature</i> , 2006, 441, 876-879.	27.8	1,790
83	Dopamine-dependent prediction errors underpin reward-seeking behaviour in humans. <i>Nature</i> , 2006, 442, 1042-1045.	27.8	1,351
84	The misbehavior of value and the discipline of the will. <i>Neural Networks</i> , 2006, 19, 1153-1160.	5.9	310
85	Frames, Biases, and Rational Decision-Making in the Human Brain. <i>Science</i> , 2006, 313, 684-687.	12.6	1,238
86	Context-Dependent Human Extinction Memory Is Mediated by a Ventromedial Prefrontal and Hippocampal Network. <i>Journal of Neuroscience</i> , 2006, 26, 9503-9511.	3.6	464
87	Carry on Eating: Neural Pathways Mediating Conditioned Potentiation of Feeding. <i>Journal of Neuroscience</i> , 2006, 26, 1061-1062.	3.6	2
88	Opponent appetitive-aversive neural processes underlie predictive learning of pain relief. <i>Nature Neuroscience</i> , 2005, 8, 1234-1240.	14.8	384
89	Anxiety Reduction through Detachment: Subjective, Physiological, and Neural Effects. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 874-883.	2.3	270
90	Modulation of pain processing in hyperalgesia by cognitive demand. <i>NeuroImage</i> , 2005, 27, 59-69.	4.2	147

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91	Temporal difference models describe higher-order learning in humans. <i>Nature</i> , 2004, 429, 664-667.	27.8	557
92	Empathy for Pain Involves the Affective but not Sensory Components of Pain. <i>Science</i> , 2004, 303, 1157-1162.	12.6	3,265