Ben Seymour

List of Publications by Year in descending order

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92	20,180	38742 50	51608 86
papers	citations	h-index	g-index

133	133	133	15505
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Empathy for Pain Involves the Affective but not Sensory Components of Pain. Science, 2004, 303, 1157-1162.	12.6	3,265
2	Cortical substrates for exploratory decisions in humans. Nature, 2006, 441, 876-879.	27.8	1,790
3	Empathic neural responses are modulated by the perceived fairness of others. Nature, 2006, 439, 466-469.	27.8	1,470
4	Model-Based Influences on Humans' Choices and Striatal Prediction Errors. Neuron, 2011, 69, 1204-1215.	8.1	1,388
5	Dopamine-dependent prediction errors underpin reward-seeking behaviour in humans. Nature, 2006, 442, 1042-1045.	27.8	1,351
6	Frames, Biases, and Rational Decision-Making in the Human Brain. Science, 2006, 313, 684-687.	12.6	1,238
7	When Fear Is Near: Threat Imminence Elicits Prefrontal-Periaqueductal Gray Shifts in Humans. Science, 2007, 317, 1079-1083.	12.6	798
8	Temporal difference models describe higher-order learning in humans. Nature, 2004, 429, 664-667.	27.8	557
9	Context-Dependent Human Extinction Memory Is Mediated by a Ventromedial Prefrontal and Hippocampal Network. Journal of Neuroscience, 2006, 26, 9503-9511.	3.6	464
10	Differential Encoding of Losses and Gains in the Human Striatum. Journal of Neuroscience, 2007, 27, 4826-4831.	3.6	396
11	Opponent appetitive-aversive neural processes underlie predictive learning of pain relief. Nature Neuroscience, 2005, 8, 1234-1240.	14.8	384
12	From Threat to Fear: The Neural Organization of Defensive Fear Systems in Humans. Journal of Neuroscience, 2009, 29, 12236-12243.	3.6	384
13	The misbehavior of value and the discipline of the will. Neural Networks, 2006, 19, 1153-1160.	5.9	310
14	Predictive Neural Coding of Reward Preference Involves Dissociable Responses in Human Ventral Midbrain and Ventral Striatum. Neuron, 2006, 49, 157-166.	8.1	286
15	Anxiety Reduction through Detachment: Subjective, Physiological, and Neural Effects. Journal of Cognitive Neuroscience, 2005, 17, 874-883.	2.3	270
16	Human Pavlovianâ€“Instrumental Transfer. Journal of Neuroscience, 2008, 28, 360-368.	3.6	264
17	The Role of Human Orbitofrontal Cortex in Value Comparison for Incommensurable Objects. Journal of Neuroscience, 2009, 29, 8388-8395.	3.6	260
18	Dopamine, Time, and Impulsivity in Humans. Journal of Neuroscience, 2010, 30, 8888-8896.	3.6	256

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19	Emotion, Decision Making, and the Amygdala. Neuron, 2008, 58, 662-671.	8.1	253
20	A Key Role for Similarity in Vicarious Reward. Science, 2009, 324, 900-900.	12.6	230
21	Choosing to Make an Effort: The Role of Striatum in Signaling Physical Effort of a Chosen Action. Journal of Neurophysiology, 2010, 104, 313-321.	1.8	213
22	Serotonin Selectively Modulates Reward Value in Human Decision-Making. Journal of Neuroscience, 2012, 32, 5833-5842.	3.6	211
23	The neurobiology of punishment. Nature Reviews Neuroscience, 2007, 8, 300-311.	10.2	210
24	Striatal Activity Underlies Novelty-Based Choice in Humans. Neuron, 2008, 58, 967-973.	8.1	210
25	Does temporal discounting explain unhealthy behavior? A systematic review and reinforcement learning perspective. Frontiers in Behavioral Neuroscience, 2014, 8, 76.	2.0	185
26	Encoding of Marginal Utility across Time in the Human Brain. Journal of Neuroscience, 2009, 29, 9575-9581.	3.6	183
27	A Genetically Mediated Bias in Decision Making Driven by Failure of Amygdala Control. Journal of Neuroscience, 2009, 29, 5985-5991.	3.6	183
28	Modulation of pain ratings by expectation and uncertainty: Behavioral characteristics and anticipatory neural correlates. Pain, 2008, 135, 240-250.	4.2	173
29	Neural Mechanisms of Belief Inference during Cooperative Games. Journal of Neuroscience, 2010, 30, 10744-10751.	3.6	169
30	Modulation of pain processing in hyperalgesia by cognitive demand. NeuroImage, 2005, 27, 59-69.	4.2	147
31	Disrupted habenula function in major depression. Molecular Psychiatry, 2017, 22, 202-208.	7.9	147
32	Dopamine and performance in a reinforcement learning task: evidence from Parkinsonâ€™s disease. Brain, 2012, 135, 1871-1883.	7.6	137
33	Contingency awareness in human aversive conditioning involves the middle frontal gyrus. NeuroImage, 2006, 29, 1007-1012.	4.2	125
34	Anchors, scales and the relative coding of value in the brain. Current Opinion in Neurobiology, 2008, 18, 173-178.	4.2	124
35	The habenula encodes negative motivational value associated with primary punishment in humans. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11858-11863.	7.1	116
36	Neural Activity Associated with the Passive Prediction of Ambiguity and Risk for Aversive Events. Journal of Neuroscience, 2009, 29, 1648-1656.	3.6	114

#	Article	IF	Citations
37	Fear reduction without fear through reinforcement of neural activity that bypasses conscious exposure. Nature Human Behaviour, 2017, 1, .	12.0	113
38	Uncertainty Increases Pain: Evidence for a Novel Mechanism of Pain Modulation Involving the Periaqueductal Gray. Journal of Neuroscience, 2013, 33, 5638-5646.	3.6	109
39	Blocking Central Opiate Function Modulates Hedonic Impact and Anterior Cingulate Response to Rewards and Losses. Journal of Neuroscience, 2008, 28, 10509-10516.	3.6	101
40	Modulating the pain networkâ€”neurostimulation for central poststroke pain. Nature Reviews Neurology, 2015, 11, 290-299.	10.1	90
41	Choking on the Money. Psychological Science, 2009, 20, 955-962.	3.3	81
42	Pain: A Precision Signal for Reinforcement Learning and Control. Neuron, 2019, 101, 1029-1041.	8.1	79
43	The neural signature of escalating frustration in humans. Cortex, 2014, 54, 165-178.	2.4	77
44	The Price of Pain and the Value of Suffering. Psychological Science, 2009, 20, 309-317.	3.3	73
45	A prediction model of working memory across health and psychiatric disease using whole-brain functional connectivity. ELife, 2018, 7, .	6.0	73
46	Dissociable Learning Processes Underlie Human Pain Conditioning. Current Biology, 2016, 26, 52-58.	3.9	70
47	Confidence in beliefs about pain predicts expectancy effects on pain perception and anticipatory processing in right anterior insula. Pain, 2008, 139, 324-332.	4.2	69
48	Induced sensorimotor brain plasticity controls pain in phantom limb patients. Nature Communications, 2016, 7, 13209.	12.8	69
49	Converging evidence for central 5-HT effects in acute tryptophan depletion. Molecular Psychiatry, 2012, 17, 121-123.	7.9	66
50	Distinct Contributions of Ventromedial and Dorsolateral Subregions of the Human Substantia Nigra to Appetitive and Aversive Learning. Journal of Neuroscience, 2015, 35, 14220-14233.	3.6	62
51	Differentiable Neural Substrates for Learned and Described Value and Risk. Current Biology, 2010, 20, 1823-1829.	3.9	60
52	Classification and characterisation of brain network changes in chronic back pain: A multicenter study. Wellcome Open Research, 2018, 3, 19.	1.8	58
53	Decoding the matrix: Benefits and limitations of applying machine learning algorithms to pain neuroimaging. Pain, 2014, 155, 864-867.	4.2	44
54	Relative Valuation of Pain in Human Orbitofrontal Cortex. Journal of Neuroscience, 2014, 34, 14526-14535.	3.6	43

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55	Insula and Striatum Mediate the Default Bias. Journal of Neuroscience, 2010, 30, 14702-14707.	3.6	39
56	Dread and the Disvalue of Future Pain. PLoS Computational Biology, 2013, 9, e1003335.	3.2	38
57	Pain: A Distributed Brain Information Network?. PLoS Biology, 2015, 13, e1002037.	5.6	36
58	Values and Actions in Aversion. , 2009, , 175-191.		36
59	Value generalization in human avoidance learning. ELife, 2018, 7, .	6.0	34
60	The Effect of Motivation on Movement: A Study of Bradykinesia in Parkinsonâ€™s Disease. PLoS ONE, 2012, 7, e47138.	2.5	28
61	Classification and characterisation of brain network changes in chronic back pain: A multicenter study. Wellcome Open Research, 2018, 3, 19.	1.8	28
62	Pain Control by Co-adaptive Learning in a Brain-Machine Interface. Current Biology, 2020, 30, 3935-3944.e7.	3.9	28
63	Hierarchical models of pain: Inference, information-seeking, and adaptive control.. NeuroImage, 2020, 222, 117212.	4.2	27
64	Resting-state Amplitude of Low-frequency Fluctuation is a Potentially Useful Prognostic Functional Biomarker in Cervical Myelopathy. Clinical Orthopaedics and Related Research, 2020, 478, 1667-1680.	1.5	23
65	The control of tonic pain by active relief learning. ELife, 2018, 7, .	6.0	21
66	Model-based and model-free pain avoidance learning. Brain and Neuroscience Advances, 2018, 2, 239821281877296.	3.4	19
67	When is a loss a loss? Excitatory and inhibitory processes in loss-related decision-making. Current Opinion in Behavioral Sciences, 2015, 5, 122-127.	3.9	18
68	Accounting for Behavior in Treatment Effects: New Applications for Blind Trials. PLoS ONE, 2015, 10, e0127227.	2.5	17
69	Deep brain stimulation of the subthalamic nucleus modulates sensitivity to decision outcome value in Parkinsonâ€™s disease. Scientific Reports, 2016, 6, 32509.	3.3	17
70	Pain Relativity in Motor Control. Psychological Science, 2010, 21, 840-847.	3.3	16
71	BCI training to move a virtual hand reduces phantom limb pain. Neurology, 2020, 95, e417-e426.	1.1	16
72	Thermosensory Perceptual Learning Is Associated with Structural Brain Changes in Parietalâ€“Opercular (SII) Cortex. Journal of Neuroscience, 2017, 37, 9380-9388.	3.6	14

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73	Technology for Chronic Pain. Current Biology, 2014, 24, R930-R935.	3.9	13
74	Parallel reward and punishment control in humans and robots: Safe reinforcement learning using the MaxPain algorithm. , 2017, , .		13
75	Decoding acute pain with combined EEG and physiological data. , 2017, , .		10
76	Anterior cingulate cortex connectivity is associated with suppression of behaviour in a rat model of chronic pain. Brain and Neuroscience Advances, 2018, 2, 239821281877964.	3.4	9
77	Altruistic Learning. Frontiers in Behavioral Neuroscience, 2009, 3, 23.	2.0	8
78	Can, and should, behavioural neuroscience influence public policy?. Trends in Cognitive Sciences, 2012, 16, 449-451.	7.8	8
79	MEGâ€“BMI to Control Phantom Limb Pain. Neurologia Medico-Chirurgica, 2018, 58, 327-333.	2.2	8
80	Decision-making in brains and robots â€” the case for an interdisciplinary approach. Current Opinion in Behavioral Sciences, 2019, 26, 137-145.	3.9	8
81	Toward high-performance, memory-efficient, and fast reinforcement learningâ€”Lessons from decision neuroscience. Science Robotics, 2019, 4, .	17.6	8
82	Prices need no preferences: Social trends determine decisions in experimental markets for pain relief.. Health Psychology, 2014, 33, 66-76.	1.6	7
83	An Evolutionarily Threat-Relevant Odor Strengthens Human Fear Memory. Frontiers in Neuroscience, 2020, 14, 255.	2.8	5
84	The maladaptive brain: excitable pathways to chronic pain. Brain, 2012, 135, 316-318.	7.6	4
85	Anticipation and Choice Heuristics in the Dynamic Consumption of Pain Relief. PLoS Computational Biology, 2015, 11, e1004030.	3.2	4
86	State-dependent value representation: evidence from the striatum. Frontiers in Neuroscience, 2014, 8, 193.	2.8	3
87	Response heterogeneity: Challenges for personalised medicine and big data approaches in psychiatry and chronic pain. F1000Research, 2018, 7, 55.	1.6	3
88	Carry on Eating: Neural Pathways Mediating Conditioned Potentiation of Feeding. Journal of Neuroscience, 2006, 26, 1061-1062.	3.6	2
89	Decisions about Decisions. Neuron, 2014, 81, 468-470.	8.1	2
90	Pain and self-preservation in autonomous robots: From neurobiological models to psychiatric disease. , 2017, , .		1

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91	Research loses in hasty changes to medical training. Nature, 2007, 446, 492-492.	27.8	0
92	Altruistic Learning. , 2012, , 208-210.		0