Michael N Shadlen

List of Publications by Year
in descending order

84 papers	29,378 citations	32410 55 h-index	62345 84 g-index
109 all docs	109 docs citations	109 times ranked	13793 citing authors

#	Article	IF	Citations
1	Sequential sampling from memory underlies action selection during abstract decision-making. Current Biology, 2022, 32, 1949-1960.e5.	1.8	12
2	Deficits in decision-making induced by parietal cortex inactivation are compensated at two timescales. Neuron, 2022, 110, 1924-1931.e5.	3.8	12
3	Multiple decisions about one object involve parallel sensory acquisition but time-multiplexed evidence incorporation. ELife, 2021, 10, .	2.8	26
4	An Open Resource for Non-human Primate Optogenetics. Neuron, 2020, 108, 1075-1090.e6.	3.8	79
5	Low-dimensional dynamics for working memory and time encoding. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23021-23032.	3.3	93
6	Context-Dependent Decision Making in a Premotor Circuit. Neuron, 2020, 106, 316-328.e6.	3.8	67
7	Differentiating between integration and non-integration strategies in perceptual decision making. ELife, 2020, 9, .	2.8	58
8	What is cognition?. Current Biology, 2019, 29, R608-R615.	1.8	58
9	The hippocampus supports deliberation during value-based decisions. ELife, 2019, 8, .	2.8	82
10	Bridging Neural and Computational Viewpoints on Perceptual Decision-Making. Trends in Neurosciences, 2018, 41, 838-852.	4.2	129
11	Counterfactual Reasoning Underlies the Learning of Priors in Decision Making. Neuron, 2018, 99, 1083-1097.e6.	3.8	41
12	Comparison of Decision-Related Signals in Sensory and Motor Preparatory Responses of Neurons in Area LIP. Journal of Neuroscience, 2018, 38, 6350-6365.	1.7	33
13	Focal optogenetic suppression in macaque area MT biases direction discrimination and decision confidence, but only transiently. ELife, 2018, 7, .	2.8	53
14	Piercing of Consciousness as a Threshold-Crossing Operation. Current Biology, 2017, 27, 2285-2295.e6.	1.8	49
15	Confidence Is the Bridge between Multi-stage Decisions. Current Biology, 2016, 26, 3157-3168.	1.8	93
16	Decision Making and Sequential Sampling from Memory. Neuron, 2016, 90, 927-939.	3.8	286
17	Comment on â€œSingle-trial spike trains in parietal cortex reveal discrete steps during decision-makingâ€. Science, 2016, 351, 1406-1406.	6.0	26
18	A common mechanism underlies changes of mind about decisions and confidence. ELife, 2016, 5, e12192.	2.8	172

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19	The influence of evidence volatility on choice, reaction time and confidence in a perceptual decision. ELife, 2016, 5, .	2.8	106
20	A Neural Implementation of Waldâ€™s Sequential Probability Ratio Test. Neuron, 2015, 85, 861-873.	3.8	127
21	Representation of Accumulating Evidence for a Decision in Two Parietal Areas. Journal of Neuroscience, 2015, 35, 4306-4318.	1.7	150
22	A Neural Mechanism for Sensing and Reproducing a Time Interval. Current Biology, 2015, 25, 2599-2609.	1.8	169
23	Time in Cortical Circuits. Journal of Neuroscience, 2015, 35, 13912-13916.	1.7	71
24	A neural mechanism of speed-accuracy tradeoff in macaque area LIP. ELife, 2014, 3, .	2.8	186
25	Predicting the Accuracy of a Decision: A Neural Mechanism of Confidence. Cold Spring Harbor Symposia on Quantitative Biology, 2014, 79, 185-197.	2.0	43
26	Choice Certainty Is Informed by Both Evidence and Decision Time. Neuron, 2014, 84, 1329-1342.	3.8	378
27	Effects of Cortical Microstimulation on Confidence in a Perceptual Decision. Neuron, 2014, 83, 797-804.	3.8	143
28	A Conversation with Michael Shadlen. Cold Spring Harbor Symposia on Quantitative Biology, 2014, 79, 291-292.	2.0	0
29	Motor Effort Alters Changes of Mind in Sensorimotor Decision Making. PLoS ONE, 2014, 9, e92681.	1.1	78
30	Decision Making as a Window on Cognition. Neuron, 2013, 80, 791-806.	3.8	441
31	Integration of Direction Cues Is Invariant to the Temporal Gap between Them. Journal of Neuroscience, 2013, 33, 16483-16489.	1.7	46
32	Neural integrators for decision making: a favorable tradeoff between robustness and sensitivity. Journal of Neurophysiology, 2013, 109, 2542-2559.	0.9	25
33	The Cost of Accumulating Evidence in Perceptual Decision Making. Journal of Neuroscience, 2012, 32, 3612-3628.	1.7	430
34	The Neurobiology of Decision-Making and Responsibility: Reconciling Mechanism and Mindedness. Frontiers in Neuroscience, 2012, 6, 56.	1.4	27
35	Decision making. Current Opinion in Neurobiology, 2012, 22, 911-913.	2.0	20
36	Deliberation in the Motor System: Reflex Gains Track Evolving Evidence Leading to a Decision. Journal of Neuroscience, 2012, 32, 2276-2286.	1.7	182

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37	Consciousness as a Decision to Engage. Research and Perspectives in Neurosciences, 2011, , 27-46.	0.4	16
38	Variance as a Signature of Neural Computations during Decision Making. Neuron, 2011, 69, 818-831.	3.8	319
39	Dissociation of Neuronal and Psychophysical Responses to Local and Global Motion. Current Biology, 2011, 21, 2023-2028.	1.8	58
40	Elapsed Decision Time Affects the Weighting of Prior Probability in a Perceptual Decision Task. Journal of Neuroscience, 2011, 31, 6339-6352.	1.7	290
41	Temporal context calibrates interval timing. Nature Neuroscience, 2010, 13, 1020-1026.	7.1	602
42	Changes of mind in decision-making. Nature, 2009, 461, 263-266.	13.7	528
43	Representation of Confidence Associated with a Decision by Neurons in the Parietal Cortex. Science, 2009, 324, 759-764.	6.0	855
44	Probabilistic Population Codes for Bayesian Decision Making. Neuron, 2008, 60, 1142-1152.	3.8	589
45	Decision-making with multiple alternatives. Nature Neuroscience, 2008, 11, 693-702.	7.1	580
46	One-Dimensional Dynamics of Attention and Decision Making in LIP. Neuron, 2008, 58, 15-25.	3.8	126
47	Bounded Integration in Parietal Cortex Underlies Decisions Even When Viewing Duration Is Dictated by the Environment. Journal of Neuroscience, 2008, 28, 3017-3029.	1.7	700
48	Neurobiology of Decision Making. , 2008, , 71-102.		65
49	Neural circuit dynamics underlying accumulation of time-varying evidence during perceptual decision making. Frontiers in Computational Neuroscience, 2007, 1, 6.	1.2	170
50	An awakening. Nature, 2007, 448, 539-540.	13.7	9
51	Probabilistic reasoning by neurons. Nature, 2007, 447, 1075-1080.	13.7	485
52	The Neural Basis of Decision Making. Annual Review of Neuroscience, 2007, 30, 535-574.	5.0	3,157
53	When is enough enough?. Nature Neuroscience, 2006, 9, 861-863.	7.1	19
54	Microstimulation of macaque area LIP affects decision-making in a motion discrimination task. Nature Neuroscience, 2006, 9, 682-689.	7.1	312

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55	The Speed and Accuracy of a Simple Perceptual Decision: A Mathematical Primer. , 2006, , 208-237.		49
56	A representation of the hazard rate of elapsed time in macaque area LIP. Nature Neuroscience, 2005, 8, 234-241.	7.1	500
57	The effect of stimulus strength on the speed and accuracy of a perceptual decision. Journal of Vision, 2005, 5, 1.	0.1	510
58	Neural Activity in Macaque Parietal Cortex Reflects Temporal Integration of Visual Motion Signals during Perceptual Decision Making. Journal of Neuroscience, 2005, 25, 10420-10436.	1.7	476
59	Microstimulation of visual cortex affects the speed of perceptual decisions. Nature Neuroscience, 2003, 6, 891-898.	7.1	197
60	Representation of Time by Neurons in the Posterior Parietal Cortex of the Macaque. Neuron, 2003, 38, 317-327.	3.8	560
61	A Role for Neural Integrators in Perceptual Decision Making. Cerebral Cortex, 2003, 13, 1257-1269.	1.6	538
62	The Influence of Behavioral Context on the Representation of a Perceptual Decision in Developing Oculomotor Commands. Journal of Neuroscience, 2003, 23, 632-651.	1.7	249
63	Banburismus and the Brain. Neuron, 2002, 36, 299-308.	3.8	494
64	Response of Neurons in the Lateral Intraparietal Area during a Combined Visual Discrimination Reaction Time Task. Journal of Neuroscience, 2002, 22, 9475-9489.	1.7	1,349
65	Pursuing commitments. Nature Neuroscience, 2002, 5, 819-821.	7.1	6
66	Limits to the temporal fidelity of cortical spike rate signals. Nature Neuroscience, 2002, 5, 463-471.	7.1	137
67	Neural computations that underlie decisions about sensory stimuli. Trends in Cognitive Sciences, 2001, 5, 10-16.	4.0	808
68	Neural Basis of a Perceptual Decision in the Parietal Cortex (Area LIP) of the Rhesus Monkey. Journal of Neurophysiology, 2001, 86, 1916-1936.	0.9	1,484
69	Representation of a perceptual decision in developing oculomotor commands. Nature, 2000, 404, 390-394.	13.7	539
70	Neural correlates of a decision in the dorsolateral prefrontal cortex of the macaque. Nature Neuroscience, 1999, 2, 176-185.	7.1	925
71	Synchrony Unbound. Neuron, 1999, 24, 67-77.	3.8	539
72	Effect of Expected Reward Magnitude on the Response of Neurons in the Dorsolateral Prefrontal Cortex of the Macaque. Neuron, 1999, 24, 415-425.	3.8	425

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73	Exploring the Neurophysiology of Decisions. Neuron, 1998, 21, 669-672.	3.8	61
74	The Variable Discharge of Cortical Neurons: Implications for Connectivity, Computation, and Information Coding. Journal of Neuroscience, 1998, 18, 3870-3896.	1.7	1,894
75	Look but don't touch, or vice versa. Nature, 1997, 386, 122-123.	13.7	8
76	Motion perception: seeing and deciding.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 628-633.	3.3	632
77	Is there a signal in the noise?. Current Opinion in Neurobiology, 1995, 5, 248-250.	2.0	142
78	fMRI of human visual cortex. Nature, 1994, 369, 525-525.	13.7	896
79	Correlated neuronal discharge rate and its implications for psychophysical performance. Nature, 1994, 370, 140-143.	13.7	1,158
80	Noise, neural codes and cortical organization. Current Opinion in Neurobiology, 1994, 4, 569-579.	2.0	1,148
81	Dichoptic activation of the early motion system. Vision Research, 1993, 33, 1977-1995.	0.7	39
82	Responses of neurons in macaque MT to stochastic motion signals. Visual Neuroscience, 1993, 10, 1157-1169.	0.5	568
83	Binocularity of early motion mechanisms: Comments on Georgeson and Shackleton. Vision Research, 1992, 32, 187-191.	0.7	13
84	Parallel processing of motion and colour information. Nature, 1987, 328, 647-649.	13.7	79