

Michael N Shadlen

List of Publications by Year in descending order

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84
papers

29,378
citations

28274

55
h-index

54911

84
g-index

109
all docs

109
docs citations

109
times ranked

11968
citing authors

#	ARTICLE	IF	CITATIONS
1	The Neural Basis of Decision Making. Annual Review of Neuroscience, 2007, 30, 535-574.	10.7	3,157
2	The Variable Discharge of Cortical Neurons: Implications for Connectivity, Computation, and Information Coding. Journal of Neuroscience, 1998, 18, 3870-3896.	3.6	1,894
3	Neural Basis of a Perceptual Decision in the Parietal Cortex (Area LIP) of the Rhesus Monkey. Journal of Neurophysiology, 2001, 86, 1916-1936.	1.8	1,484
4	Response of Neurons in the Lateral Intraparietal Area during a Combined Visual Discrimination Reaction Time Task. Journal of Neuroscience, 2002, 22, 9475-9489.	3.6	1,349
5	Correlated neuronal discharge rate and its implications for psychophysical performance. Nature, 1994, 370, 140-143.	27.8	1,158
6	Noise, neural codes and cortical organization. Current Opinion in Neurobiology, 1994, 4, 569-579.	4.2	1,148
7	Neural correlates of a decision in the dorsolateral prefrontal cortex of the macaque. Nature Neuroscience, 1999, 2, 176-185.	14.8	925
8	fMRI of human visual cortex. Nature, 1994, 369, 525-525.	27.8	896
9	Representation of Confidence Associated with a Decision by Neurons in the Parietal Cortex. Science, 2009, 324, 759-764.	12.6	855
10	Neural computations that underlie decisions about sensory stimuli. Trends in Cognitive Sciences, 2001, 5, 10-16.	7.8	808
11	Bounded Integration in Parietal Cortex Underlies Decisions Even When Viewing Duration Is Dictated by the Environment. Journal of Neuroscience, 2008, 28, 3017-3029.	3.6	700
12	Motion perception: seeing and deciding.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 628-633.	7.1	632
13	Temporal context calibrates interval timing. Nature Neuroscience, 2010, 13, 1020-1026.	14.8	602
14	Probabilistic Population Codes for Bayesian Decision Making. Neuron, 2008, 60, 1142-1152.	8.1	589
15	Decision-making with multiple alternatives. Nature Neuroscience, 2008, 11, 693-702.	14.8	580
16	Responses of neurons in macaque MT to stochastic motion signals. Visual Neuroscience, 1993, 10, 1157-1169.	1.0	568
17	Representation of Time by Neurons in the Posterior Parietal Cortex of the Macaque. Neuron, 2003, 38, 317-327.	8.1	560
18	Synchrony Unbound. Neuron, 1999, 24, 67-77.	8.1	539

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19	Representation of a perceptual decision in developing oculomotor commands. <i>Nature</i> , 2000, 404, 390-394.	27.8	539
20	A Role for Neural Integrators in Perceptual Decision Making. <i>Cerebral Cortex</i> , 2003, 13, 1257-1269.	2.9	538
21	Changes of mind in decision-making. <i>Nature</i> , 2009, 461, 263-266.	27.8	528
22	The effect of stimulus strength on the speed and accuracy of a perceptual decision. <i>Journal of Vision</i> , 2005, 5, 1.	0.3	510
23	A representation of the hazard rate of elapsed time in macaque area LIP. <i>Nature Neuroscience</i> , 2005, 8, 234-241.	14.8	500
24	Banburismus and the Brain. <i>Neuron</i> , 2002, 36, 299-308.	8.1	494
25	Probabilistic reasoning by neurons. <i>Nature</i> , 2007, 447, 1075-1080.	27.8	485
26	Neural Activity in Macaque Parietal Cortex Reflects Temporal Integration of Visual Motion Signals during Perceptual Decision Making. <i>Journal of Neuroscience</i> , 2005, 25, 10420-10436.	3.6	476
27	Decision Making as a Window on Cognition. <i>Neuron</i> , 2013, 80, 791-806.	8.1	441
28	The Cost of Accumulating Evidence in Perceptual Decision Making. <i>Journal of Neuroscience</i> , 2012, 32, 3612-3628.	3.6	430
29	Effect of Expected Reward Magnitude on the Response of Neurons in the Dorsolateral Prefrontal Cortex of the Macaque. <i>Neuron</i> , 1999, 24, 415-425.	8.1	425
30	Choice Certainty Is Informed by Both Evidence and Decision Time. <i>Neuron</i> , 2014, 84, 1329-1342.	8.1	378
31	Variance as a Signature of Neural Computations during Decision Making. <i>Neuron</i> , 2011, 69, 818-831.	8.1	319
32	Microstimulation of macaque area LIP affects decision-making in a motion discrimination task. <i>Nature Neuroscience</i> , 2006, 9, 682-689.	14.8	312
33	Elapsed Decision Time Affects the Weighting of Prior Probability in a Perceptual Decision Task. <i>Journal of Neuroscience</i> , 2011, 31, 6339-6352.	3.6	290
34	Decision Making and Sequential Sampling from Memory. <i>Neuron</i> , 2016, 90, 927-939.	8.1	286
35	The Influence of Behavioral Context on the Representation of a Perceptual Decision in Developing Oculomotor Commands. <i>Journal of Neuroscience</i> , 2003, 23, 632-651.	3.6	249
36	Microstimulation of visual cortex affects the speed of perceptual decisions. <i>Nature Neuroscience</i> , 2003, 6, 891-898.	14.8	197

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37	A neural mechanism of speed-accuracy tradeoff in macaque area LIP. <i>ELife</i> , 2014, 3, .	6.0	186
38	Deliberation in the Motor System: Reflex Gains Track Evolving Evidence Leading to a Decision. <i>Journal of Neuroscience</i> , 2012, 32, 2276-2286.	3.6	182
39	A common mechanism underlies changes of mind about decisions and confidence. <i>ELife</i> , 2016, 5, e12192.	6.0	172
40	Neural circuit dynamics underlying accumulation of time-varying evidence during perceptual decision making. <i>Frontiers in Computational Neuroscience</i> , 2007, 1, 6.	2.1	170
41	A Neural Mechanism for Sensing and Reproducing a Time Interval. <i>Current Biology</i> , 2015, 25, 2599-2609.	3.9	169
42	Representation of Accumulating Evidence for a Decision in Two Parietal Areas. <i>Journal of Neuroscience</i> , 2015, 35, 4306-4318.	3.6	150
43	Effects of Cortical Microstimulation on Confidence in a Perceptual Decision. <i>Neuron</i> , 2014, 83, 797-804.	8.1	143
44	Is there a signal in the noise?. <i>Current Opinion in Neurobiology</i> , 1995, 5, 248-250.	4.2	142
45	Limits to the temporal fidelity of cortical spike rate signals. <i>Nature Neuroscience</i> , 2002, 5, 463-471.	14.8	137
46	Bridging Neural and Computational Viewpoints on Perceptual Decision-Making. <i>Trends in Neurosciences</i> , 2018, 41, 838-852.	8.6	129
47	A Neural Implementation of Wald's Sequential Probability Ratio Test. <i>Neuron</i> , 2015, 85, 861-873.	8.1	127
48	One-Dimensional Dynamics of Attention and Decision Making in LIP. <i>Neuron</i> , 2008, 58, 15-25.	8.1	126
49	The influence of evidence volatility on choice, reaction time and confidence in a perceptual decision. <i>ELife</i> , 2016, 5, .	6.0	106
50	Confidence Is the Bridge between Multi-stage Decisions. <i>Current Biology</i> , 2016, 26, 3157-3168.	3.9	93
51	Low-dimensional dynamics for working memory and time encoding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23021-23032.	7.1	93
52	The hippocampus supports deliberation during value-based decisions. <i>ELife</i> , 2019, 8, .	6.0	82
53	Parallel processing of motion and colour information. <i>Nature</i> , 1987, 328, 647-649.	27.8	79
54	An Open Resource for Non-human Primate Optogenetics. <i>Neuron</i> , 2020, 108, 1075-1090.e6.	8.1	79

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55	Motor Effort Alters Changes of Mind in Sensorimotor Decision Making. PLoS ONE, 2014, 9, e92681.	2.5	78
56	Time in Cortical Circuits. Journal of Neuroscience, 2015, 35, 13912-13916.	3.6	71
57	Context-Dependent Decision Making in a Premotor Circuit. Neuron, 2020, 106, 316-328.e6.	8.1	67
58	Neurobiology of Decision Making. , 2008, , 71-102.		65
59	Exploring the Neurophysiology of Decisions. Neuron, 1998, 21, 669-672.	8.1	61
60	Dissociation of Neuronal and Psychophysical Responses to Local and Global Motion. Current Biology, 2011, 21, 2023-2028.	3.9	58
61	What is cognition?. Current Biology, 2019, 29, R608-R615.	3.9	58
62	Differentiating between integration and non-integration strategies in perceptual decision making. ELife, 2020, 9, .	6.0	58
63	Focal optogenetic suppression in macaque area MT biases direction discrimination and decision confidence, but only transiently. ELife, 2018, 7, .	6.0	53
64	Piercing of Consciousness as a Threshold-Crossing Operation. Current Biology, 2017, 27, 2285-2295.e6.	3.9	49
65	The Speed and Accuracy of a Simple Perceptual Decision: A Mathematical Primer. , 2006, , 208-237.		49
66	Integration of Direction Cues Is Invariant to the Temporal Gap between Them. Journal of Neuroscience, 2013, 33, 16483-16489.	3.6	46
67	Predicting the Accuracy of a Decision: A Neural Mechanism of Confidence. Cold Spring Harbor Symposia on Quantitative Biology, 2014, 79, 185-197.	1.1	43
68	Counterfactual Reasoning Underlies the Learning of Priors in Decision Making. Neuron, 2018, 99, 1083-1097.e6.	8.1	41
69	Dichoptic activation of the early motion system. Vision Research, 1993, 33, 1977-1995.	1.4	39
70	Comparison of Decision-Related Signals in Sensory and Motor Preparatory Responses of Neurons in Area LIP. Journal of Neuroscience, 2018, 38, 6350-6365.	3.6	33
71	The Neurobiology of Decision-Making and Responsibility: Reconciling Mechanism and Mindedness. Frontiers in Neuroscience, 2012, 6, 56.	2.8	27
72	Comment on "Single-trial spike trains in parietal cortex reveal discrete steps during decision-making". Science, 2016, 351, 1406-1406.	12.6	26

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73	Multiple decisions about one object involve parallel sensory acquisition but time-multiplexed evidence incorporation. <i>ELife</i> , 2021, 10, .	6.0	26
74	Neural integrators for decision making: a favorable tradeoff between robustness and sensitivity. <i>Journal of Neurophysiology</i> , 2013, 109, 2542-2559.	1.8	25
75	Decision making. <i>Current Opinion in Neurobiology</i> , 2012, 22, 911-913.	4.2	20
76	When is enough enough?. <i>Nature Neuroscience</i> , 2006, 9, 861-863.	14.8	19
77	Consciousness as a Decision to Engage. <i>Research and Perspectives in Neurosciences</i> , 2011, , 27-46.	0.4	16
78	Binocularity of early motion mechanisms: Comments on Georgeson and Shackleton. <i>Vision Research</i> , 1992, 32, 187-191.	1.4	13
79	Sequential sampling from memory underlies action selection during abstract decision-making. <i>Current Biology</i> , 2022, 32, 1949-1960.e5.	3.9	12
80	Deficits in decision-making induced by parietal cortex inactivation are compensated at two timescales. <i>Neuron</i> , 2022, 110, 1924-1931.e5.	8.1	12
81	An awakening. <i>Nature</i> , 2007, 448, 539-540.	27.8	9
82	Look but don't touch, or vice versa. <i>Nature</i> , 1997, 386, 122-123.	27.8	8
83	Pursuing commitments. <i>Nature Neuroscience</i> , 2002, 5, 819-821.	14.8	6
84	A Conversation with Michael Shadlen. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2014, 79, 291-292.	1.1	0