Matthew R Nassar

List of Publications by Year
in descending order

33	2,816	393982	344852
papers	citations	19 h-index	36 g-index

52	52	52	2688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rational regulation of learning dynamics by pupil-linked arousal systems. Nature Neuroscience, 2012, 15, 1040-1046.	7.1	570
2	Alternate day calorie restriction improves clinical findings and reduces markers of oxidative stress and inflammation in overweight adults with moderate asthma. Free Radical Biology and Medicine, 2007, 42, 665-674.	1.3	513
3	An Approximately Bayesian Delta-Rule Model Explains the Dynamics of Belief Updating in a Changing Environment. Journal of Neuroscience, 2010, 30, 12366-12378.	1.7	381
4	Functionally Dissociable Influences on Learning Rate in a Dynamic Environment. Neuron, 2014, 84, 870-881.	3.8	216
5	Bayesian Online Learning of the Hazard Rate in Change-Point Problems. Neural Computation, 2010, 22, 2452-2476.	1.3	120
6	A Mixture of Delta-Rules Approximation to Bayesian Inference in Change-Point Problems. PLoS Computational Biology, 2013, 9, e1003150.	1.5	90
7	Catecholaminergic Regulation of Learning Rate in a Dynamic Environment. PLoS Computational Biology, 2016, 12, e1005171.	1.5	74
8	Positive reward prediction errors during decision-making strengthen memory encoding. Nature Human Behaviour, 2019, 3, 719-732.	6.2	72
9	Age differences in learning emerge from an insufficient representation of uncertainty in older adults. Nature Communications, 2016, 7, 11609.	5.8	70
10	Arousal-related adjustments of perceptual biases optimize perception in dynamic environments. Nature Human Behaviour, 2017, 1, .	6.2	67
11	Chunking as a rational strategy for lossy data compression in visual working memory.. Psychological Review, 2018, 125, 486-511.	2.7	67
12	Neuroprotective actions of a histidine analogue in models of ischemic stroke. Journal of Neurochemistry, 2007, 101, 729-736.	2.1	62
13	Taming the beast: extracting generalizable knowledge from computational models of cognition. Current Opinion in Behavioral Sciences, 2016, 11, 49-54.	2.0	56
14	The mitochondrial uncoupler <scp>DNP</scp> triggers brain cell <scp>mTOR</scp> signaling network reprogramming andÂ<scp>CREB</scp> pathway upâ€regulation. Journal of Neurochemistry, 2015, 134, 677-692.	2.1	53
15	Statistical context dictates the relationship between feedback-related EEG signals and learning. ELife, 2019, 8, .	2.8	53
16	Dissociable forms of uncertainty-driven representational change across the human brain. Journal of Neuroscience, 2019, 39, 1713-18.	1.7	39
17	All or nothing belief updating in patients with schizophrenia reduces precision and flexibility of beliefs. Brain, 2021, 144, 1013-1029.	3.7	30
18	Response-based outcome predictions and confidence regulate feedback processing and learning. ELife, 2021, 10, .	2.8	29

#	Article	IF	Citations
19	The computational challenge of social learning. Trends in Cognitive Sciences, 2021, 25, 1045-1057.	4.0	26
20	Functional brain network reconfiguration during learning in a dynamic environment. Nature Communications, 2020, 11, 1682.	5.8	25
21	Individual Neurons in the Cingulate Cortex Encode Action Monitoring, Not Selection, during Adaptive Decision-Making. Journal of Neuroscience, 2019, 39, 6668-6683.	1.7	23
22	Computational neuroscience across the lifespan: Promises and pitfalls. Developmental Cognitive Neuroscience, 2018, 33, 42-53.	1.9	22
23	A Healthy Fear of the Unknown: Perspectives on the Interpretation of Parameter Fits from Computational Models in Neuroscience. PLoS Computational Biology, 2013, 9, e1003015.	1.5	21
24	Adaptive learning is structure learning in time. Neuroscience and Biobehavioral Reviews, 2021, 128, 270-281.	2.9	20
25	A Control Theoretic Model of Adaptive Learning in Dynamic Environments. Journal of Cognitive Neuroscience, 2018, 30, 1405-1421.	1.1	16
26	The stability flexibility tradeoff and the dark side of detail. Cognitive, Affective and Behavioral Neuroscience, 2021, 21, 607-623.	1.0	10
27	Noise Correlations for Faster and More Robust Learning. Journal of Neuroscience, 2021, 41, 6740-6752.	1.7	9
28	Adaptive Learning through Temporal Dynamics of State Representation. Journal of Neuroscience, 2022, 42, 2524-2538.	1.7	9
29	Dynamic Representation of the Subjective Value of Information. Journal of Neuroscience, 2021, 41, 8220-8232.	1.7	8
30	Neural connectome prospectively encodes the risk of post-traumatic stress disorder (PTSD) symptom during the COVID-19 pandemic. Neurobiology of Stress, 2021, 15, 100378.	1.9	8
31	Age-related changes in the functional integrity of the phasic alerting system: a pupillometric investigation. Neurobiology of Aging, 2020, 91, 136-147.	1.5	6
32	Latent motives guide structure learning during adaptive social choice. Nature Human Behaviour, 2022, 6, 404-414.	6.2	5
33	What do we GANE with age?. Behavioral and Brain Sciences, 2016, 39, e218.	0.4	2