

# Matthew R Nassar

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

2,816  
citations

394421

19  
h-index

345221

36  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2688  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational regulation of learning dynamics by pupil-linked arousal systems. <i>Nature Neuroscience</i> , 2012, 15, 1040-1046.	14.8	570
2	Alternate day calorie restriction improves clinical findings and reduces markers of oxidative stress and inflammation in overweight adults with moderate asthma. <i>Free Radical Biology and Medicine</i> , 2007, 42, 665-674.	2.9	513
3	An Approximately Bayesian Delta-Rule Model Explains the Dynamics of Belief Updating in a Changing Environment. <i>Journal of Neuroscience</i> , 2010, 30, 12366-12378.	3.6	381
4	Functionally Dissociable Influences on Learning Rate in a Dynamic Environment. <i>Neuron</i> , 2014, 84, 870-881.	8.1	216
5	Bayesian Online Learning of the Hazard Rate in Change-Point Problems. <i>Neural Computation</i> , 2010, 22, 2452-2476.	2.2	120
6	A Mixture of Delta-Rules Approximation to Bayesian Inference in Change-Point Problems. <i>PLoS Computational Biology</i> , 2013, 9, e1003150.	3.2	90
7	Catecholaminergic Regulation of Learning Rate in a Dynamic Environment. <i>PLoS Computational Biology</i> , 2016, 12, e1005171.	3.2	74
8	Positive reward prediction errors during decision-making strengthen memory encoding. <i>Nature Human Behaviour</i> , 2019, 3, 719-732.	12.0	72
9	Age differences in learning emerge from an insufficient representation of uncertainty in older adults. <i>Nature Communications</i> , 2016, 7, 11609.	12.8	70
10	Arousal-related adjustments of perceptual biases optimize perception in dynamic environments. <i>Nature Human Behaviour</i> , 2017, 1, .	12.0	67
11	Chunking as a rational strategy for lossy data compression in visual working memory. <i>Psychological Review</i> , 2018, 125, 486-511.	3.8	67
12	Neuroprotective actions of a histidine analogue in models of ischemic stroke. <i>Journal of Neurochemistry</i> , 2007, 101, 729-736.	3.9	62
13	Taming the beast: extracting generalizable knowledge from computational models of cognition. <i>Current Opinion in Behavioral Sciences</i> , 2016, 11, 49-54.	3.9	56
14	The mitochondrial uncoupler <i>DNP</i> triggers brain cell <i>mTOR</i> signaling network reprogramming and <i>CREB</i> pathway upregulation. <i>Journal of Neurochemistry</i> , 2015, 134, 677-692.	3.9	53
15	Statistical context dictates the relationship between feedback-related EEG signals and learning. <i>ELife</i> , 2019, 8, .	6.0	53
16	Dissociable forms of uncertainty-driven representational change across the human brain. <i>Journal of Neuroscience</i> , 2019, 39, 1713-18.	3.6	39
17	All or nothing belief updating in patients with schizophrenia reduces precision and flexibility of beliefs. <i>Brain</i> , 2021, 144, 1013-1029.	7.6	30
18	Response-based outcome predictions and confidence regulate feedback processing and learning. <i>ELife</i> , 2021, 10, .	6.0	29

#	ARTICLE	IF	CITATIONS
19	The computational challenge of social learning. <i>Trends in Cognitive Sciences</i> , 2021, 25, 1045-1057.	7.8	26
20	Functional brain network reconfiguration during learning in a dynamic environment. <i>Nature Communications</i> , 2020, 11, 1682.	12.8	25
21	Individual Neurons in the Cingulate Cortex Encode Action Monitoring, Not Selection, during Adaptive Decision-Making. <i>Journal of Neuroscience</i> , 2019, 39, 6668-6683.	3.6	23
22	Computational neuroscience across the lifespan: Promises and pitfalls. <i>Developmental Cognitive Neuroscience</i> , 2018, 33, 42-53.	4.0	22
23	A Healthy Fear of the Unknown: Perspectives on the Interpretation of Parameter Fits from Computational Models in Neuroscience. <i>PLoS Computational Biology</i> , 2013, 9, e1003015.	3.2	21
24	Adaptive learning is structure learning in time. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 128, 270-281.	6.1	20
25	A Control Theoretic Model of Adaptive Learning in Dynamic Environments. <i>Journal of Cognitive Neuroscience</i> , 2018, 30, 1405-1421.	2.3	16
26	The stability flexibility tradeoff and the dark side of detail. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2021, 21, 607-623.	2.0	10
27	Noise Correlations for Faster and More Robust Learning. <i>Journal of Neuroscience</i> , 2021, 41, 6740-6752.	3.6	9
28	Adaptive Learning through Temporal Dynamics of State Representation. <i>Journal of Neuroscience</i> , 2022, 42, 2524-2538.	3.6	9
29	Dynamic Representation of the Subjective Value of Information. <i>Journal of Neuroscience</i> , 2021, 41, 8220-8232.	3.6	8
30	Neural connectome prospectively encodes the risk of post-traumatic stress disorder (PTSD) symptom during the COVID-19 pandemic. <i>Neurobiology of Stress</i> , 2021, 15, 100378.	4.0	8
31	Age-related changes in the functional integrity of the phasic alerting system: a pupillometric investigation. <i>Neurobiology of Aging</i> , 2020, 91, 136-147.	3.1	6
32	Latent motives guide structure learning during adaptive social choice. <i>Nature Human Behaviour</i> , 2022, 6, 404-414.	12.0	5
33	What do we GANE with age?. <i>Behavioral and Brain Sciences</i> , 2016, 39, e218.	0.7	2