Marcelo G Mattar

List of Publications by Year
in descending order

21 papers	1,291 citations	516710 16 h-index	713466 21 g-index
28 all docs	28 docs citations	28 times ranked	1576 citing authors

#	Article	IF	Citations
1	Prioritized memory access explains planning and hippocampal replay. Nature Neuroscience, 2018, 21, 1609-1617.	14.8	221
2	Functional Network Dynamics of the Language System. Cerebral Cortex, 2016, 26, 4148-4159.	2.9	155
3	Optimal trajectories of brain state transitions. NeuroImage, 2017, 148, 305-317.	4.2	143
4	A Functional Cartography of Cognitive Systems. PLoS Computational Biology, 2015, 11, e1004533.	3.2	137
5	Experience replay is associated with efficient nonlocal learning. Science, 2021, 372, .	12.6	83
6	A Network Neuroscience of Human Learning: Potential to Inform Quantitative Theories of Brain and Behavior. Trends in Cognitive Sciences, 2017, 21, 250-264.	7.8	78
7	The energy landscape underpinning module dynamics in the human brain connectome. NeuroImage, 2017, 157, 364-380.	4.2	53
8	Predicting future learning from baseline network architecture. NeuroImage, 2018, 172, 107-117.	4.2	52
9	Brain state flexibility accompanies motor-skill acquisition. NeuroImage, 2018, 171, 135-147.	4.2	47
10	Reward prediction error does not explain movement selectivity in DMS-projecting dopamine neurons. ELife, 2019, 8, .	6.0	45
11	Beyond modularity: Fine-scale mechanisms and rules for brain network reconfiguration. NeuroImage, 2018, 166, 385-399.	4.2	42
12	Planning in the brain. Neuron, 2022, 110, 914-934.	8.1	37
13	The flexible brain. Brain, 2016, 139, 2110-2112.	7.6	31
14	The temporal dynamics of opportunity costs: A normative account of cognitive fatigue and boredom.. Psychological Review, 2022, 129, 564-585.	3.8	30
15	Varying Timescales of Stimulus Integration Unite Neural Adaptation and Prototype Formation. Current Biology, 2016, 26, 1669-1676.	3.9	28
16	Effective learning is accompanied by high-dimensional and efficient representations of neural activity. Nature Neuroscience, 2019, 22, 1000-1009.	14.8	27
17	Structural Pathways Supporting Swift Acquisition of New Visuomotor Skills. Cerebral Cortex, 2017, 27, 173-184.	2.9	23
18	The network architecture of value learning. Network Neuroscience, 2018, 2, 128-149.	2.6	15

#	Article	IF	Citations
19	Adaptation decorrelates shape representations. Nature Communications, 2018, 9, 3812.	12.8	9
20	Individual differences in response precision correlate with adaptation bias. Journal of Vision, 2018, 18, 18.	0.3	6
21	Patterns of Neural Oscillations in Emotional Memory Discrimination. Neuron, 2019, 102, 715-717.	8.1	1