Praveen K Pilly

List of Publications by Year
in descending order

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34	1,078	623734	501196
papers	citations	14 h-index	28 g-index

38	38	38	1120
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transcranial alternating current stimulation entrains single-neuron activity in the primate brain. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5747-5755.	7.1	218
2	Transcranial Direct Current Stimulation Facilitates Associative Learning and Alters Functional Connectivity in the Primate Brain. Current Biology, 2017, 27, 3086-3096.e3.	3.9	114
3	Closed-Loop Slow-Wave tACS Improves Sleep-Dependent Long-Term Memory Generalization by Modulating Endogenous Oscillations. Journal of Neuroscience, 2018, 38, 7314-7326.	3.6	109
4	What a difference a parameter makes: A psychophysical comparison of random dot motion algorithms. Vision Research, 2009, 49, 1599-1612.	1.4	98
5	How Do Spatial Learning and Memory Occur in the Brain? Coordinated Learning of Entorhinal Grid Cells and Hippocampal Place Cells. Journal of Cognitive Neuroscience, 2012, 24, 1031-1054.	2.3	64
6	Biological underpinnings for lifelong learning machines. Nature Machine Intelligence, 2022, 4, 196-210.	16.0	62
7	Temporal dynamics of decision-making during motion perception in the visual cortex. Vision Research, 2008, 48, 1345-1373.	1.4	59
8	How Entorhinal Grid Cells May Learn Multiple Spatial Scales from a Dorsoventral Gradient of Cell Response Rates in a Self-organizing Map. PLoS Computational Biology, 2012, 8, e1002648.	3.2	46
9	Dose-Dependent Effects of Closed-Loop tACS Delivered During Slow-Wave Oscillations on Memory Consolidation. Frontiers in Neuroscience, 2018, 12, 867.	2.8	35
10	Spiking Neurons in a Hierarchical Self-Organizing Map Model Can Learn to Develop Spatial and Temporal Properties of Entorhinal Grid Cells and Hippocampal Place Cells. PLoS ONE, 2013, 8, e60599.	2.5	33
11	Coordinated learning of grid cell and place cell spatial and temporal properties: multiple scales, attention and oscillations. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20120524.	4.0	33
12	Low-level sensory plasticity during task-irrelevant perceptual learning: Evidence from conventional and double training procedures. Vision Research, 2010, 50, 424-432.	1.4	19
13	On comparing in vivo intracranial recordings in non-human primates to predictions of optimized transcranial electrical stimulation. , 2016, 2016, 1774-1777.		19
14	The Benefits of Closed-Loop Transcranial Alternating Current Stimulation on Subjective Sleep Quality. Brain Sciences, 2018, 8, 204.	2.3	19
15	Complementary Learning for Overcoming Catastrophic Forgetting Using Experience Replay. , 2019, , .		17
16	Generative Continual Concept Learning. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 5545-5552.	4.9	15
17	Interactions between contrast and spatial displacement in visual motion processing. Current Biology, 2008, 18, R904-R906.	3.9	13
18	Transcranial Current Stimulation During Sleep Facilitates Insight into Temporal Rules, but does not Consolidate Memories of Individual Sequential Experiences. Scientific Reports, 2019, 9, 1516.	3.3	13

#	Article	IF	Citations
19	How reduction of theta rhythm by medial septum inactivation may covary with disruption of entorhinal grid cell responses due to reduced cholinergic transmission. Frontiers in Neural Circuits, 2013, 7, 173.	2.8	11
20	How does the modular organization of entorhinal grid cells develop?. Frontiers in Human Neuroscience, 2014, 8, 337.	2.0	11
21	Modeling Contextual Modulation of Memory Associations in the Hippocampus. Frontiers in Human Neuroscience, 2018, 12, 442.	2.0	11
22	Mental State Assessment and Validation Using Personalized Physiological Biometrics. Frontiers in Human Neuroscience, 2018, 12, 221.	2.0	10
23	Neuromodulated attention and goal-driven perception in uncertain domains. Neural Networks, 2020, 125, 56-69.	5.9	10
24	Reply to Khatoun et al.: Speculation about brain stimulation must be constrained by observation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22440-22441.	7.1	9
25	Deep Reinforcement Learning With Modulated Hebbian Plus Q-Network Architecture. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2045-2056.	11.3	8
26	One-Shot Tagging During Wake and Cueing During Sleep With Spatiotemporal Patterns of Transcranial Electrical Stimulation Can Boost Long-Term Metamemory of Individual Episodes in Humans. Frontiers in Neuroscience, 2019, 13, 1416.	2.8	6
27	The neural basis of decision-making during sensemaking: Implications for human-system interaction. , 2015, , .		3
28	Evolving inborn knowledge for fast adaptation in dynamic POMDP problems. , 2020, , .		3
29	Probabilistic Program Neurogenesis. , 2019, , .		3
30	Detecting Changes and Avoiding Catastrophic Forgetting in Dynamic Partially Observable Environments. Frontiers in Neurorobotics, 2020, 14, 578675.	2.8	2
31	Context meta-reinforcement learning via neuromodulation. Neural Networks, 2022, 152, 70-79.	5.9	2
32	Hypercolumn Sparsification for Low-Power Convolutional Neural Networks. ACM Journal on Emerging Technologies in Computing Systems, 2019, 15, 1-16.	2.3	1
33	Brain connectivity alterations during sleep by closed-loop transcranial neurostimulation predict metamemory sensitivity. Network Neuroscience, 2021, 5, 1-23.	2.6	1
34	Probabilistic Program Neurogenesis. , 2019, , .		0