Sen Cheng

List of Publications by Year
in descending order

50 papers	1,601 citations	361296 20 h-index	345118 36 g-index
60 all docs	60 docs citations	60 times ranked	1349 citing authors

#	Article	IF	Citations
1	Learning Cognitive Map Representations for Navigation by Sensoryâ€“Motor Integration. IEEE Transactions on Cybernetics, 2022, 52, 508-521.	6.2	5
2	The cerebellum contributes to context-effects during fear extinction learning: A 7T fMRI study. NeuroImage, 2022, 253, 119080.	2.1	21
3	Trial-by-trial dynamics of reward prediction error-associated signals during extinction learning and renewal. Progress in Neurobiology, 2021, 197, 101901.	2.8	18
4	Context-dependent extinction learning emerging from raw sensory inputs: a reinforcement learning approach. Scientific Reports, 2021, 11, 2713.	1.6	13
5	Self-referential false associations: A self-enhanced constructive effect for verbal but not pictorial stimuli. Quarterly Journal of Experimental Psychology, 2021, 74, 1512-1524.	0.6	5
6	Emergence of complex dynamics of choice due to repeated exposures to extinction learning. Animal Cognition, 2021, 24, 1279-1297.	0.9	6
7	Recognition Receiver Operating Characteristic Curves: The Complex Influence of Input Statistics, Memory, and Decision-making. Journal of Cognitive Neuroscience, 2021, 33, 1032-1055.	1.1	2
8	Neuronal sequences during theta rely on behavior-dependent spatial maps. ELife, 2021, 10, .	2.8	8
9	A multistage retrieval account of associative recognition ROC curves. Learning and Memory, 2021, 28, 400-404.	0.5	0
10	Cover Image, Volume 30, Issue 6. Hippocampus, 2020, 30, C1.	0.9	0
11	Improving sensory representations using episodic memory. Hippocampus, 2020, 30, 638-656.	0.9	1
12	Automatic Tuning of RatSLAMâ€™s Parameters by Irace and Iterative Closest Point. , 2020, , .		5
13	Emerging category representation in the visual forebrain hierarchy of pigeons (Columba livia). Behavioural Brain Research, 2019, 356, 423-434.	1.2	24
14	Hippocampal Reactivation Extends for Several Hours Following Novel Experience. Journal of Neuroscience, 2019, 39, 866-875.	1.7	69
15	How do memory modules differentially contribute to familiarity and recollection?. Behavioral and Brain Sciences, 2019, 42, e288.	0.4	2
16	A Parallel RatSlam C++ Library Implementation. Communications in Computer and Information Science, 2019, , 173-183.	0.4	2
17	Doing without metarepresentation: Scenario construction explains the epistemic generativity and privileged status of episodic memory. Behavioral and Brain Sciences, 2018, 41, e34.	0.4	2
18	The Interaction between Semantic Representation and Episodic Memory. Neural Computation, 2018, 30, 293-332.	1.3	10

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19	Autonomous Exploration Guided by Optimisation Metaheuristic. , 2018, , .		1
20	Storage fidelity for sequence memory in the hippocampal circuit. PLoS ONE, 2018, 13, e0204685.	1.1	9
21	A Neuro-Inspired Approach to Solve a Simultaneous Location and Mapping Task Using Shared Information in Multiple Robots Systems. , 2018, , .		4
22	The reduction of adult neurogenesis in depression impairs the retrieval of new as well as remote episodic memory. PLoS ONE, 2018, 13, e0198406.	1.1	31
23	Consolidation of Episodic Memory: An Epiphenomenon of Semantic Learning. Studies in Neuroscience, Psychology and Behavioral Economics, 2017, , 57-72.	0.1	4
24	From grid cells to place cells with realistic field sizes. PLoS ONE, 2017, 12, e0181618.	1.1	24
25	Taxonomy and unity of memory. , 2017, , 7-20.		39
26	Topological Schemas of Cognitive Maps and Spatial Learning. Frontiers in Computational Neuroscience, 2016, 10, 18.	1.2	28
27	What is episodic memory if it is a natural kind?. SynthÃˆse, 2016, 193, 1345-1385.	0.6	80
28	Dissociating memory traces and scenario construction in mental time travel. Neuroscience and Biobehavioral Reviews, 2016, 60, 82-89.	2.9	97
29	Self-organization of synchronous activity propagation in neuronal networks driven by local excitation. Frontiers in Computational Neuroscience, 2015, 9, 69.	1.2	23
30	Memory Storage Fidelity in the Hippocampal Circuit: The Role of Subregions and Input Statistics. PLoS Computational Biology, 2015, 11, e1004250.	1.5	21
31	Modeling the Dynamics of Disease States in Depression. PLoS ONE, 2014, 9, e110358.	1.1	23
32	Parametric Anatomical Modeling: a method for modeling the anatomical layout of neurons and their projections. Frontiers in Neuroanatomy, 2014, 8, 91.	0.9	11
33	The transformation from grid cells to place cells is robust to noise in the grid pattern. Hippocampus, 2014, 24, 912-919.	0.9	16
34	Pattern Association and Consolidation Emerges from Connectivity Properties between Cortex and Hippocampus. PLoS ONE, 2014, 9, e85016.	1.1	9
35	Composition and replay of mnemonic sequences: The contributions of REM and slow-wave sleep to episodic memory. Behavioral and Brain Sciences, 2013, 36, 610-611.	0.4	40
36	A computational model for preplay in the hippocampus. Frontiers in Computational Neuroscience, 2013, 7, 161.	1.2	52

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37	Identification of two forebrain structures that mediate execution of memorized sequences in the pigeon. Journal of Neurophysiology, 2013, 109, 958-968.	0.9	24
38	The CRISP theory of hippocampal function in episodic memory. Frontiers in Neural Circuits, 2013, 7, 88.	1.4	70
39	Constraints on the synchronization of entorhinal cortex stellate cells. Physical Review E, 2012, 86, 011908.	0.8	5
40	The structure of networks that produce the transformation from grid cells to place cells. Neuroscience, 2011, 197, 293-306.	1.1	56
41	Reactivation, Replay, and Preplay: How It Might All Fit Together. Neural Plasticity, 2011, 2011, 1-11.	1.0	91
42	New Experiences Enhance Coordinated Neural Activity in the Hippocampus. Neuron, 2008, 57, 303-313.	3.8	242
43	Calibration of Visually Guided Reaching Is Driven by Error-Corrective Learning and Internal Dynamics. Journal of Neurophysiology, 2007, 97, 3057-3069.	0.9	76
44	Modeling Sensorimotor Learning with Linear Dynamical Systems. Neural Computation, 2006, 18, 760-793.	1.3	123
45	Modeling Sensorimotor Learning with Linear Dynamical Systems. Neural Computation, 2006, 18, 760-793.	1.3	99
46	Statistical and dynamic models of charge balance functions. Physical Review C, 2004, 69, .	1.1	36
47	Removing distortions from charge balance functions. Physical Review C, 2003, 68, .	1.1	24
48	Isospin fluctuations from a thermally equilibrated hadron gas. Physical Review C, 2003, 67, .	1.1	5
49	Effect of finite-range interactions in classical transport theory. Physical Review C, 2002, 65, .	1.1	34
50	Quantum corrections for pion correlations involving resonance decays. Physical Review C, 2001, 63, .	1.1	2