

# Sen Cheng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5611517/publications.pdf>

Version: 2024-02-01

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	New Experiences Enhance Coordinated Neural Activity in the Hippocampus. <i>Neuron</i> , 2008, 57, 303-313.	3.8	242
2	Modeling Sensorimotor Learning with Linear Dynamical Systems. <i>Neural Computation</i> , 2006, 18, 760-793.	1.3	123
3	Modeling Sensorimotor Learning with Linear Dynamical Systems. <i>Neural Computation</i> , 2006, 18, 760-793.	1.3	99
4	Dissociating memory traces and scenario construction in mental time travel. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 60, 82-89.	2.9	97
5	Reactivation, Replay, and Preplay: How It Might All Fit Together. <i>Neural Plasticity</i> , 2011, 2011, 1-11.	1.0	91
6	What is episodic memory if it is a natural kind?. <i>Synthese</i> , 2016, 193, 1345-1385.	0.6	80
7	Calibration of Visually Guided Reaching Is Driven by Error-Corrective Learning and Internal Dynamics. <i>Journal of Neurophysiology</i> , 2007, 97, 3057-3069.	0.9	76
8	The CRISP theory of hippocampal function in episodic memory. <i>Frontiers in Neural Circuits</i> , 2013, 7, 88.	1.4	70
9	Hippocampal Reactivation Extends for Several Hours Following Novel Experience. <i>Journal of Neuroscience</i> , 2019, 39, 866-875.	1.7	69
10	The structure of networks that produce the transformation from grid cells to place cells. <i>Neuroscience</i> , 2011, 197, 293-306.	1.1	56
11	A computational model for preplay in the hippocampus. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 161.	1.2	52
12	Composition and replay of mnemonic sequences: The contributions of REM and slow-wave sleep to episodic memory. <i>Behavioral and Brain Sciences</i> , 2013, 36, 610-611.	0.4	40
13	Taxonomy and unity of memory. , 2017, , 7-20.		39
14	Statistical and dynamic models of charge balance functions. <i>Physical Review C</i> , 2004, 69, .	1.1	36
15	Effect of finite-range interactions in classical transport theory. <i>Physical Review C</i> , 2002, 65, .	1.1	34
16	The reduction of adult neurogenesis in depression impairs the retrieval of new as well as remote episodic memory. <i>PLoS ONE</i> , 2018, 13, e0198406.	1.1	31
17	Topological Schemas of Cognitive Maps and Spatial Learning. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 18.	1.2	28
18	Removing distortions from charge balance functions. <i>Physical Review C</i> , 2003, 68, .	1.1	24



#	ARTICLE	IF	CITATIONS
19	Identification of two forebrain structures that mediate execution of memorized sequences in the pigeon. <i>Journal of Neurophysiology</i> , 2013, 109, 958-968.	0.9	24
20	Emerging category representation in the visual forebrain hierarchy of pigeons ( <i>Columba livia</i> ). <i>Behavioural Brain Research</i> , 2019, 356, 423-434.	1.2	24
21	From grid cells to place cells with realistic field sizes. <i>PLoS ONE</i> , 2017, 12, e0181618.	1.1	24
22	Modeling the Dynamics of Disease States in Depression. <i>PLoS ONE</i> , 2014, 9, e110358.	1.1	23
23	Self-organization of synchronous activity propagation in neuronal networks driven by local excitation. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 69.	1.2	23
24	Memory Storage Fidelity in the Hippocampal Circuit: The Role of Subregions and Input Statistics. <i>PLoS Computational Biology</i> , 2015, 11, e1004250.	1.5	21
25	The cerebellum contributes to context-effects during fear extinction learning: A 7T fMRI study. <i>NeuroImage</i> , 2022, 253, 119080.	2.1	21
26	Trial-by-trial dynamics of reward prediction error-associated signals during extinction learning and renewal. <i>Progress in Neurobiology</i> , 2021, 197, 101901.	2.8	18
27	The transformation from grid cells to place cells is robust to noise in the grid pattern. <i>Hippocampus</i> , 2014, 24, 912-919.	0.9	16
28	Context-dependent extinction learning emerging from raw sensory inputs: a reinforcement learning approach. <i>Scientific Reports</i> , 2021, 11, 2713.	1.6	13
29	Parametric Anatomical Modeling: a method for modeling the anatomical layout of neurons and their projections. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 91.	0.9	11
30	The Interaction between Semantic Representation and Episodic Memory. <i>Neural Computation</i> , 2018, 30, 293-332.	1.3	10
31	Storage fidelity for sequence memory in the hippocampal circuit. <i>PLoS ONE</i> , 2018, 13, e0204685.	1.1	9
32	Pattern Association and Consolidation Emerges from Connectivity Properties between Cortex and Hippocampus. <i>PLoS ONE</i> , 2014, 9, e85016.	1.1	9
33	Neuronal sequences during theta rely on behavior-dependent spatial maps. <i>eLife</i> , 2021, 10, .	2.8	8
34	Emergence of complex dynamics of choice due to repeated exposures to extinction learning. <i>Animal Cognition</i> , 2021, 24, 1279-1297.	0.9	6
35	Isospin fluctuations from a thermally equilibrated hadron gas. <i>Physical Review C</i> , 2003, 67, .	1.1	5
36	Constraints on the synchronization of entorhinal cortex stellate cells. <i>Physical Review E</i> , 2012, 86, 011908.	0.8	5



#	ARTICLE	IF	CITATIONS
37	Learning Cognitive Map Representations for Navigation by Sensoryâ€“Motor Integration. IEEE Transactions on Cybernetics, 2022, 52, 508-521.	6.2	5
38	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
39	Automatic Tuning of RatSLAMâ€™s Parameters by Irbace and Iterative Closest Point. , 2020, , .		5
40	A Neuro-Inspired Approach to Solve a Simultaneous Location and Mapping Task Using Shared Information in Multiple Robots Systems. , 2018, , .		4
41	Consolidation of Episodic Memory: An Epiphenomenon of Semantic Learning. Studies in Neuroscience, Psychology and Behavioral Economics, 2017, , 57-72.	0.1	4
42	Quantum corrections for pion correlations involving resonance decays. Physical Review C, 2001, 63, .	1.1	2
43	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
44	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
45	How do memory modules differentially contribute to familiarity and recollection?. Behavioral and Brain Sciences, 2019, 42, e288.	0.4	2
46	A Parallel RatSlam C++ Library Implementation. Communications in Computer and Information Science, 2019, , 173-183.	0.4	2
47	Autonomous Exploration Guided by Optimisation Metaheuristic. , 2018, , .		1
48	Improving sensory representations using episodic memory. Hippocampus, 2020, 30, 638-656.	0.9	1
49	Cover Image, Volume 30, Issue 6. Hippocampus, 2020, 30, C1.	0.9	0
50	A multistage retrieval account of associative recognition ROC curves. Learning and Memory, 2021, 28, 400-404.	0.5	0