

Jozsef Csicsvari

List of Publications by Year in descending order

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48
papers

12,358
citations

109137

35
h-index

205818

48
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all docs

53
docs citations

53
times ranked

8582
citing authors

#	ARTICLE	IF	CITATIONS
1	Accuracy of Tetrode Spike Separation as Determined by Simultaneous Intracellular and Extracellular Measurements. <i>Journal of Neurophysiology</i> , 2000, 84, 401-414.	0.9	1,003
2	Mechanisms of Gamma Oscillations in the Hippocampus of the Behaving Rat. <i>Neuron</i> , 2003, 37, 311-322.	3.8	872
3	Oscillatory Coupling of Hippocampal Pyramidal Cells and Interneurons in the Behaving Rat. <i>Journal of Neuroscience</i> , 1999, 19, 274-287.	1.7	851
4	Intracellular Features Predicted by Extracellular Recordings in the Hippocampus In Vivo. <i>Journal of Neurophysiology</i> , 2000, 84, 390-400.	0.9	841
5	Communication between neocortex and hippocampus during sleep in rodents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2065-2069.	3.3	803
6	Organization of cell assemblies in the hippocampus. <i>Nature</i> , 2003, 424, 552-556.	13.7	788
7	Replay and Time Compression of Recurring Spike Sequences in the Hippocampus. <i>Journal of Neuroscience</i> , 1999, 19, 9497-9507.	1.7	751
8	The reorganization and reactivation of hippocampal maps predict spatial memory performance. <i>Nature Neuroscience</i> , 2010, 13, 995-1002.	7.1	595
9	Reliability and State Dependence of Pyramidal Cell-Interneuron Synapses in the Hippocampus. <i>Neuron</i> , 1998, 21, 179-189.	3.8	552
10	Ensemble Patterns of Hippocampal CA3-CA1 Neurons during Sharp Wave-Associated Population Events. <i>Neuron</i> , 2000, 28, 585-594.	3.8	423
11	Disrupted Dopamine Transmission and the Emergence of Exaggerated Beta Oscillations in Subthalamic Nucleus and Cerebral Cortex. <i>Journal of Neuroscience</i> , 2008, 28, 4795-4806.	1.7	413
12	Complementary Roles of Cholecystokinin- and Parvalbumin-Expressing GABAergic Neurons in Hippocampal Network Oscillations. <i>Journal of Neuroscience</i> , 2005, 25, 9782-9793.	1.7	400
13	Massively Parallel Recording of Unit and Local Field Potentials With Silicon-Based Electrodes. <i>Journal of Neurophysiology</i> , 2003, 90, 1314-1323.	0.9	371
14	Play it again: reactivation of waking experience and memory. <i>Trends in Neurosciences</i> , 2010, 33, 220-229.	4.2	361
15	Sustained activation of hippocampal pyramidal cells by "space clamping"™ in a running wheel. <i>European Journal of Neuroscience</i> , 1999, 11, 344-352.	1.2	260
16	Interactions between Hippocampus and Medial Septum during Sharp Waves and Theta Oscillation in the Behaving Rat. <i>Journal of Neuroscience</i> , 1999, 19, 6191-6199.	1.7	256
17	Reactivation of experience-dependent cell assembly patterns in the hippocampus. <i>Nature Neuroscience</i> , 2008, 11, 209-215.	7.1	254
18	Relationships between Hippocampal Sharp Waves, Ripples, and Fast Gamma Oscillation: Influence of Dentate and Entorhinal Cortical Activity. <i>Journal of Neuroscience</i> , 2011, 31, 8605-8616.	1.7	237

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19	Place-Selective Firing of CA1 Pyramidal Cells during Sharp Wave/Ripple Network Patterns in Exploratory Behavior. <i>Neuron</i> , 2006, 49, 143-155.	3.8	234
20	Ivy Cells: A Population of Nitric-Oxide-Producing, Slow-Spiking GABAergic Neurons and Their Involvement in Hippocampal Network Activity. <i>Neuron</i> , 2008, 57, 917-929.	3.8	221
21	Theta phase-specific codes for two-dimensional position, trajectory and heading in the hippocampus. <i>Nature Neuroscience</i> , 2008, 11, 587-594.	7.1	183
22	The entorhinal cognitive map is attracted to goals. <i>Science</i> , 2019, 363, 1443-1447.	6.0	154
23	Gamma Oscillatory Firing Reveals Distinct Populations of Pyramidal Cells in the CA1 Region of the Hippocampus. <i>Journal of Neuroscience</i> , 2008, 28, 2274-2286.	1.7	134
24	High-Frequency Network Activity, Global Increase in Neuronal Activity, and Synchrony Expansion Precede Epileptic Seizures <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 2010, 30, 5690-5701.	1.7	131
25	Place-selective firing contributes to the reverse-order reactivation of CA1 pyramidal cells during sharp waves in open-field exploration. <i>European Journal of Neuroscience</i> , 2007, 26, 704-716.	1.2	126
26	Dynamic Reconfiguration of Hippocampal Interneuron Circuits during Spatial Learning. <i>Neuron</i> , 2013, 78, 166-180.	3.8	117
27	Firing rate and theta-phase coding by hippocampal pyramidal neurons during space clamping™. <i>European Journal of Neuroscience</i> , 1999, 11, 4373-4380.	1.2	109
28	Phase-Locked Inhibition, but Not Excitation, Underlies Hippocampal Ripple Oscillations in Awake Mice <i>In Vivo</i> . <i>Neuron</i> , 2017, 93, 308-314.	3.8	106
29	Assembly-Specific Disruption of Hippocampal Replay Leads to Selective Memory Deficit. <i>Neuron</i> , 2020, 106, 291-300.e6.	3.8	105
30	Activity-Dependent Control of Neuronal Output by Local and Global Dendritic Spike Attenuation. <i>Neuron</i> , 2009, 61, 906-916.	3.8	88
31	Hippocampal Reactivation of Random Trajectories Resembling Brownian Diffusion. <i>Neuron</i> , 2019, 102, 450-461.e7.	3.8	85
32	Assembly Responses of Hippocampal CA1 Place Cells Predict Learned Behavior in Goal-Directed Spatial Tasks on the Radial Eight-Arm Maze. <i>Neuron</i> , 2019, 101, 119-132.e4.	3.8	80
33	Replay of Behavioral Sequences in the Medial Prefrontal Cortex during Rule Switching. <i>Neuron</i> , 2020, 106, 154-165.e6.	3.8	70
34	Changes in Functional Connectivity within the Rat Striatopallidal Axis during Global Brain Activation <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2006, 26, 6318-6329.	1.7	68
35	Hippocampal Place Cells Can Encode Multiple Trial-Dependent Features through Rate Remapping. <i>Journal of Neuroscience</i> , 2012, 32, 14752-14766.	1.7	53
36	Activity-dependent plasticity of hippocampal place maps. <i>Nature Communications</i> , 2016, 7, 11824.	5.8	42

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37	Behavior-Dependent States of the Hippocampal Network Affect Functional Clustering of Neurons. <i>Journal of Neuroscience</i> , 2001, 21, RC145-RC145.	1.7	37
38	Sharp wave/ripple network oscillations and learning-associated hippocampal maps. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20120528.	1.8	36
39	Optogenetically Blocking Sharp Wave Ripple Events in Sleep Does Not Interfere with the Formation of Stable Spatial Representation in the CA1 Area of the Hippocampus. <i>PLoS ONE</i> , 2016, 11, e0164675.	1.1	33
40	Disruptedâ€œschizophrenia 1 overexpression disrupts hippocampal coding and oscillatory synchronization. <i>Hippocampus</i> , 2019, 29, 802-816.	0.9	28
41	The application of printed circuit board technology for fabrication of multi-channel micro-drives. <i>Journal of Neuroscience Methods</i> , 2001, 105, 105-110.	1.3	26
42	Rate Remapping: When the Code Goes beyond Space. <i>Neuron</i> , 2010, 68, 1015-1016.	3.8	16
43	Tetrode Recording from the Hippocampus of Behaving Mice Coupled with Four-Point-Irradiation Closed-Loop Optogenetics: A Technique to Study the Contribution of Hippocampal SWR Events to Learning. <i>ENeuro</i> , 2018, 5, ENEURO.0087-18.2018.	0.9	14
44	Inhibitory interneurons and network oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18079-18080.	3.3	9
45	The medial entorhinal cortex keeps Up. <i>Nature Neuroscience</i> , 2012, 15, 1471-1472.	7.1	6
46	Optogenetic inhibition-mediated activity-dependent modification of CA1 pyramidal-interneuron connections during behavior. <i>ELife</i> , 2020, 9, .	2.8	6
47	Learning by Example in the Hippocampus. <i>Neuron</i> , 2014, 83, 8-10.	3.8	2
48	Turning heads to remember places. <i>Nature Neuroscience</i> , 2014, 17, 643-644.	7.1	1