Laura Lee Colgin

List of Publications by Year
in descending order

30	4,100	393982 19	552369 26
papers	citations	h-index	g-index

33	33	33	3723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Frequency of gamma oscillations routes flow of information in the hippocampus. Nature, 2009, 462, 353-357.	13.7	1,206
2	Rhythms of the hippocampal network. Nature Reviews Neuroscience, 2016, 17, 239-249.	4.9	495
3	Mechanisms and Functions of Theta Rhythms. Annual Review of Neuroscience, 2013, 36, 295-312.	5.0	392
4	Understanding memory through hippocampal remapping. Trends in Neurosciences, 2008, 31, 469-477.	4.2	361
5	Gamma Oscillations in the Hippocampus. Physiology, 2010, 25, 319-329.	1.6	260
6	Slow and Fast Gamma Rhythms Coordinate Different Spatial Coding Modes in Hippocampal Place Cells. Neuron, 2014, 82, 670-681.	3.8	182
7	Thetaâ€“gamma coupling in the entorhinalâ€“hippocampal system. Current Opinion in Neurobiology, 2015, 31, 45-50.	2.0	166
8	Gamma oscillations in cognitive disorders. Current Opinion in Neurobiology, 2018, 52, 182-187.	2.0	164
9	Spatial Sequence Coding Differs during Slow and Fast Gamma Rhythms in the Hippocampus. Neuron, 2016, 89, 398-408.	3.8	130
10	Long-term potentiation is impaired in rat hippocampal slices that produce spontaneous sharp waves. Journal of Physiology, 2004, 558, 953-961.	1.3	104
11	Impairments in spatial representations and rhythmic coordination of place cells in the 3xTg mouse model of Alzheimer's disease. Hippocampus, 2017, 27, 378-392.	0.9	85
12	Do slow and fast gamma rhythms correspond to distinct functional states in the hippocampal network?. Brain Research, 2015, 1621, 309-315.	1.1	82
13	The relationship between gamma frequency and running speed differs for slow and fast gamma rhythms in freely behaving rats. Hippocampus, 2015, 25, 924-938.	0.9	79
14	Fast Gamma Rhythms in the Hippocampus Promote Encoding of Novel Objectâ€“Place Pairings. ENeuro, 2016, 3, ENEURO.0001-16.2016.	0.9	76
15	Grid cell co-activity patterns during sleep reflect spatial overlap of grid fields during active behaviors. Nature Neuroscience, 2019, 22, 609-617.	7.1	67
16	Septal Modulation of Excitatory Transmission in Hippocampus. Journal of Neurophysiology, 2003, 90, 2358-2366.	0.9	32
17	Blockade of NMDA receptors enhances spontaneous sharp waves in rat hippocampal slices. Neuroscience Letters, 2005, 385, 46-51.	1.0	29
18	Beta and Gamma Rhythms Go with the Flow. Neuron, 2015, 85, 236-237.	3.8	29

#	Article	IF	Citations
19	Slow gamma rhythms in CA3 are entrained by slow gamma activity in the dentate gyrus. Journal of Neurophysiology, 2016, 116, 2594-2603.	0.9	24
20	Hippocampal place cell sequences differ during correct and error trials in a spatial memory task. Nature Communications, 2021, 12, 3373.	5.8	23
21	Hippocampal theta rhythms follow the beat of their own drum. Nature Neuroscience, 2009, 12, 1483-1484.	7.1	22
22	Methodological Caveats in the Detection of Coordinated Replay between Place Cells and Grid Cells. Frontiers in Systems Neuroscience, 2017, 11, 57.	1.2	21
23	CA3 place cells that represent a novel waking experience are preferentially reactivated during sharp waveâ€ripples in subsequent sleep. Hippocampus, 2019, 29, 921-938.	0.9	19
24	Five Decades of Hippocampal Place Cells and EEG Rhythms in Behaving Rats. Journal of Neuroscience, 2020, 40, 54-60.	1.7	18
25	Experience-dependent trends in CA1 theta and slow gamma rhythms in freely behaving mice. Journal of Neurophysiology, 2018, 119, 476-489.	0.9	13
26	Spike Time Synchrony in the Absence of Continuous Oscillations. Neuron, 2018, 100, 527-529.	3.8	3
27	The High Energy Cost of Thetaâ€“Gamma Activity during REM Sleep. Trends in Neurosciences, 2019, 42, 239-241.	4.2	2
28	Hippocampal oscillatory dynamics in freely behaving rats during exploration of social and non-social stimuli. Cognitive Neurodynamics, 2023, 17, 411-429.	2.3	2
29	A neuronal mechanism for recall of bad events. Nature Neuroscience, 2017, 20, 501-503.	7.1	0
30	Cover Image, Volume 29, Issue 10. Hippocampus, 2019, 29, C1.	0.9	0