

Jill K Leutgeb

List of Publications by Year in descending order

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37
papers

6,083
citations

201385

27
h-index

329751

37
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42
all docs

42
docs citations

42
times ranked

4534
citing authors

#	ARTICLE	IF	CITATIONS
1	Pattern Separation in the Dentate Gyrus and CA3 of the Hippocampus. Science, 2007, 315, 961-966.	6.0	1,399
2	Independent Codes for Spatial and Episodic Memory in Hippocampal Neuronal Ensembles. Science, 2005, 309, 619-623.	6.0	712
3	Distinct Ensemble Codes in Hippocampal Areas CA3 and CA1. Science, 2004, 305, 1295-1298.	6.0	695
4	The Spatial Periodicity of Grid Cells Is Not Sustained During Reduced Theta Oscillations. Science, 2011, 332, 592-595.	6.0	350
5	Neuronal code for extended time in the hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19462-19467.	3.3	307
6	Progressive Transformation of Hippocampal Neuronal Representations in "Morphed" Environments. Neuron, 2005, 48, 345-358.	3.8	296
7	Hippocampal CA2 Activity Patterns Change over Time to a Larger Extent than between Spatial Contexts. Neuron, 2015, 85, 190-201.	3.8	238
8	Pattern separation, pattern completion, and new neuronal codes within a continuous CA3 map. Learning and Memory, 2007, 14, 745-757.	0.5	190
9	Medial Entorhinal Cortex Lesions Only Partially Disrupt Hippocampal Place Cells and Hippocampus-Dependent Place Memory. Cell Reports, 2014, 9, 893-901.	2.9	168
10	Place cells, spatial maps and the population code for memory. Current Opinion in Neurobiology, 2005, 15, 738-746.	2.0	157
11	The medial entorhinal cortex is necessary for temporal organization of hippocampal neuronal activity. Nature Neuroscience, 2015, 18, 1123-1132.	7.1	155
12	Grid and Nongrid Cells in Medial Entorhinal Cortex Represent Spatial Location and Environmental Features with Complementary Coding Schemes. Neuron, 2017, 94, 83-92.e6.	3.8	153
13	New and Distinct Hippocampal Place Codes Are Generated in a New Environment during Septal Inactivation. Neuron, 2014, 82, 789-796.	3.8	123
14	Attractor-Map Versus Autoassociation Based Attractor Dynamics in the Hippocampal Network. Journal of Neurophysiology, 2010, 104, 35-50.	0.9	115
15	Neurogenesis in the dentate gyrus: carrying the message or dictating the tone. Frontiers in Neuroscience, 2013, 7, 50.	1.4	112
16	Dentate network activity is necessary for spatial working memory by supporting CA3 sharp-wave ripple generation and prospective firing of CA3 neurons. Nature Neuroscience, 2018, 21, 258-269.	7.1	101
17	Impaired hippocampal rate coding after lesions of the lateral entorhinal cortex. Nature Neuroscience, 2013, 16, 1085-1093.	7.1	90
18	MicroRNA-101 Regulates Multiple Developmental Programs to Constrain Excitation in Adult Neural Networks. Neuron, 2016, 92, 1337-1351.	3.8	73

#	ARTICLE	IF	CITATIONS
19	Hippocampal Neural Circuits Respond to Optogenetic Pacing of Theta Frequencies by Generating Accelerated Oscillation Frequencies. <i>Current Biology</i> , 2018, 28, 1179-1188.e3.	1.8	64
20	Fast rate coding in hippocampal CA3 cell ensembles. <i>Hippocampus</i> , 2006, 16, 765-774.	0.9	61
21	Spatial and memory circuits in the medial entorhinal cortex. <i>Current Opinion in Neurobiology</i> , 2015, 32, 16-23.	2.0	61
22	Hippocampal Global Remapping Can Occur without Input from the Medial Entorhinal Cortex. <i>Cell Reports</i> , 2018, 22, 3152-3159.	2.9	59
23	Brain State Is a Major Factor in Preseizure Hippocampal Network Activity and Influences Success of Seizure Intervention. <i>Journal of Neuroscience</i> , 2015, 35, 15635-15648.	1.7	49
24	LTP in cultured hippocampal entorhinal cortex slices from young adult (P25-30) rats. <i>Journal of Neuroscience Methods</i> , 2003, 130, 19-32.	1.3	45
25	The impact of pathological high-frequency oscillations on hippocampal network activity in rats with chronic epilepsy. <i>ELife</i> , 2019, 8, .	2.8	45
26	Time Cells in the Hippocampus Are Neither Dependent on Medial Entorhinal Cortex Inputs nor Necessary for Spatial Working Memory. <i>Neuron</i> , 2019, 102, 1235-1248.e5.	3.8	44
27	Recurrent circuits within medial entorhinal cortex superficial layers support grid cell firing. <i>Nature Communications</i> , 2018, 9, 3701.	5.8	38
28	Hippocampal CA1 replay becomes less prominent but more rigid without inputs from medial entorhinal cortex. <i>Nature Communications</i> , 2019, 10, 1341.	5.8	34
29	Temporal coding and rate remapping: Representation of nonspatial information in the hippocampus. <i>Hippocampus</i> , 2019, 29, 111-127.	0.9	25
30	Hippocampal activation during the recall of remote spatial memories in radial maze tasks. <i>Neurobiology of Learning and Memory</i> , 2013, 106, 324-333.	1.0	22
31	Precisely timed theta oscillations are selectively required during the encoding phase of memory. <i>Nature Neuroscience</i> , 2021, 24, 1614-1627.	7.1	22
32	Enigmas of the Dentate Gyrus. <i>Neuron</i> , 2007, 55, 176-178.	3.8	19
33	Theta sequences of grid cell populations can provide a movement-direction signal. <i>Current Opinion in Behavioral Sciences</i> , 2017, 17, 147-154.	2.0	17
34	Stability of medial entorhinal cortex representations over time. <i>Hippocampus</i> , 2019, 29, 284-302.	0.9	15
35	The hippocampal code for space in Mongolian gerbils. <i>Hippocampus</i> , 2019, 29, 787-801.	0.9	13
36	Directional Tuning of Phase Precession Properties in the Hippocampus. <i>Journal of Neuroscience</i> , 2022, 42, 2282-2297.	1.7	5

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37	Remapping to Discriminate Contexts with Hippocampal Population Codes. , 2014, , 227-251.		1