

Kathryn J Jeffery

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

5,959
citations

101543

36
h-index

85541

71
g-index

104
all docs

104
docs citations

104
times ranked

3524
citing authors

#	ARTICLE	IF	CITATIONS
1	Path integration in mammals. <i>Hippocampus</i> , 2004, 14, 180-192.	1.9	567
2	Experience-dependent rescaling of entorhinal grids. <i>Nature Neuroscience</i> , 2007, 10, 682-684.	14.8	489
3	Integration of visual motion and locomotion in mouse visual cortex. <i>Nature Neuroscience</i> , 2013, 16, 1864-1869.	14.8	353
4	The Boundary Vector Cell Model of Place Cell Firing and Spatial Memory. <i>Reviews in the Neurosciences</i> , 2006, 17, 71-97.	2.9	316
5	Heterogeneous Modulation of Place Cell Firing by Changes in Context. <i>Journal of Neuroscience</i> , 2003, 23, 8827-8835.	3.6	292
6	Place cells, navigational accuracy, and the human hippocampus. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1998, 353, 1333-1340.	4.0	236
7	An independent, landmark-dominated head-direction signal in dysgranular retrosplenial cortex. <i>Nature Neuroscience</i> , 2017, 20, 173-175.	14.8	198
8	Retrosplenial cortex and its role in spatial cognition. <i>Brain and Neuroscience Advances</i> , 2018, 2, 239821281875709.	3.4	186
9	Anisotropic encoding of three-dimensional space by place cells and grid cells. <i>Nature Neuroscience</i> , 2011, 14, 1182-1188.	14.8	160
10	The representation of space in the brain. <i>Behavioural Processes</i> , 2017, 135, 113-131.	1.1	156
11	Cumulative long-term potentiation in the rat dentate gyrus correlates with, but does not modify, performance in the water maze. <i>Hippocampus</i> , 1993, 3, 133-140.	1.9	121
12	Place Field Repetition and Purely Local Remapping in a Multicompartment Environment. <i>Cerebral Cortex</i> , 2015, 25, 10-25.	2.9	112
13	Grid Cells Form a Global Representation of Connected Environments. <i>Current Biology</i> , 2015, 25, 1176-1182.	3.9	112
14	Robotic and neuronal simulation of the hippocampus and rat navigation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997, 352, 1535-1543.	4.0	110
15	Preserved performance in a hippocampal-dependent spatial task despite complete place cell remapping. <i>Hippocampus</i> , 2003, 13, 175-189.	1.9	104
16	Navigating in a three-dimensional world. <i>Behavioral and Brain Sciences</i> , 2013, 36, 523-543.	0.7	104
17	Induction of Fos-like immunoreactivity and the maintenance of long-term potentiation in the dentate gyrus of unanesthetized rats. <i>Molecular Brain Research</i> , 1990, 8, 267-274.	2.3	103
18	Integration of the sensory inputs to place cells: What, where, why, and how?. <i>Hippocampus</i> , 2007, 17, 775-785.	1.9	101

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19	Learned interaction of visual and idiothetic cues in the control of place field orientation. <i>Experimental Brain Research</i> , 1999, 127, 151-161.	1.5	99
20	A proposed architecture for the neural representation of spatial context. <i>Neuroscience and Biobehavioral Reviews</i> , 2004, 28, 201-218.	6.1	94
21	Directional control of hippocampal place fields. <i>Experimental Brain Research</i> , 1997, 117, 131-142.	1.5	82
22	A metric for the cognitive map: found at last?. <i>Trends in Cognitive Sciences</i> , 2006, 10, 1-3.	7.8	82
23	Horizontal biases in rats' use of three-dimensional space. <i>Behavioural Brain Research</i> , 2011, 222, 279-288.	2.2	79
24	Medial septal control of theta-correlated unit firing in the entorhinal cortex of awake rats. <i>NeuroReport</i> , 1995, 6, 2166-2170.	1.2	76
25	Context-specific acquisition of location discrimination by hippocampal place cells. <i>European Journal of Neuroscience</i> , 2003, 18, 2825-2834.	2.6	74
26	How heterogeneous place cell responding arises from homogeneous grids? A contextual gating hypothesis. <i>Hippocampus</i> , 2008, 18, 1301-1313.	1.9	67
27	LTP and spatial learning? Where to next?. <i>Hippocampus</i> , 1997, 7, 95-110.	1.9	65
28	A role for terrain slope in orienting hippocampal place fields. <i>Experimental Brain Research</i> , 2006, 169, 218-225.	1.5	64
29	Dissociation of the geometric and contextual influences on place cells. <i>Hippocampus</i> , 2003, 13, 868-872.	1.9	62
30	Learning of landmark stability and instability by hippocampal place cells. <i>Neuropharmacology</i> , 1998, 37, 677-687.	4.1	60
31	Do rats use shape to solve "shape discriminations"? <i>Learning and Memory</i> , 2006, 13, 287-297.	1.3	59
32	Neural encoding of large-scale three-dimensional space's properties and constraints. <i>Frontiers in Psychology</i> , 2015, 6, 927.	2.1	57
33	Grid Cells Encode Local Positional Information. <i>Current Biology</i> , 2017, 27, 2337-2343.e3.	3.9	54
34	Multivoxel Pattern Analysis Reveals 3D Place Information in the Human Hippocampus. <i>Journal of Neuroscience</i> , 2017, 37, 4270-4279.	3.6	49
35	The place-cell representation of volumetric space in rats. <i>Nature Communications</i> , 2020, 11, 789.	12.8	49
36	Modifiable neuronal connections: an overview for psychiatrists. <i>American Journal of Psychiatry</i> , 1997, 154, 156-164.	7.2	46

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37	Weighted cue integration in the rodent head direction system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20120512.	4.0	44
38	Behavioral correlates of the distributed coding of spatial context. <i>Hippocampus</i> , 2006, 16, 730-742.	1.9	43
39	The Hippocampus: From Memory, to Map, to Memory Map. <i>Trends in Neurosciences</i> , 2018, 41, 64-66.	8.6	43
40	Retrosplenial and postsubicular head direction cells compared during visual landmark discrimination. <i>Brain and Neuroscience Advances</i> , 2017, 1, 239821281772185.	3.4	42
41	Purely Translational Realignment in Grid Cell Firing Patterns Following Nonmetric Context Change. <i>Cerebral Cortex</i> , 2015, 25, 4619-4627.	2.9	41
42	Place Cells, Grid Cells, Attractors, and Remapping. <i>Neural Plasticity</i> , 2011, 2011, 1-11.	2.2	40
43	Landmark-Based Updating of the Head Direction System by Retrosplenial Cortex: A Computational Model. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 191.	3.7	40
44	Insensitivity of place cells to the value of spatial goals in a two-choice flexible navigation task. <i>Journal of Neuroscience</i> , 2019, 39, 1578-18.	3.6	37
45	Irregular distribution of grid cell firing fields in rats exploring a 3D volumetric space. <i>Nature Neuroscience</i> , 2021, 24, 1567-1573.	14.8	35
46	Geometric Cues Influence Head Direction Cells Only Weakly in Nondisoriented Rats. <i>Journal of Neuroscience</i> , 2011, 31, 15681-15692.	3.6	34
47	A dual-axis rotation rule for updating the head direction cell reference frame during movement in three dimensions. <i>Journal of Neurophysiology</i> , 2018, 119, 192-208.	1.8	33
48	Plasticity of the Hippocampal Place Cell Representation. <i>Reviews in the Neurosciences</i> , 2004, 15, 309-31.	2.9	32
49	Self-localization and the entorhinal hippocampal system. <i>Current Opinion in Neurobiology</i> , 2007, 17, 684-691.	4.2	32
50	Grid cells on steeply sloping terrain: evidence for planar rather than volumetric encoding. <i>Frontiers in Psychology</i> , 2015, 6, 925.	2.1	30
51	On the Statistical Mechanics of Life: Schrödinger Revisited. <i>Entropy</i> , 2019, 21, 1211.	2.2	30
52	Hippocampal place cells encode global location but not connectivity in a complex space. <i>Current Biology</i> , 2021, 31, 1221-1233.e9.	3.9	30
53	Altered neural odometry in the vertical dimension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4631-4636.	7.1	29
54	Theoretical accounts of spatial learning: A neurobiological view (commentary on Pearce, 2009). <i>Quarterly Journal of Experimental Psychology</i> , 2010, 63, 1683-1699.	1.1	22

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55	Differential effects of spaced vs. massed training in long-term object-identity and object-location recognition memory. <i>Behavioural Brain Research</i> , 2013, 250, 102-113.	2.2	21
56	A theoretical account of cue averaging in the rodent head direction system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130283.	4.0	20
57	Optimal cue combination and landmark stability learning in the head direction system. <i>Journal of Physiology</i> , 2016, 594, 6527-6534.	2.9	20
58	How Can Neuroscientists Respond to the Climate Emergency?. <i>Neuron</i> , 2020, 106, 17-20.	8.1	18
59	Evidence for two distinct thalamocortical circuits in retrosplenial cortex. <i>Neurobiology of Learning and Memory</i> , 2021, 185, 107525.	1.9	16
60	Climate crisis and ecological emergency: Why they concern (neuro)scientists, and what we can do. <i>Brain and Neuroscience Advances</i> , 2022, 6, 239821282210754.	3.4	15
61	Paradoxical enhancement of long-term potentiation in poor-learning rats at low test stimulus intensities. <i>Experimental Brain Research</i> , 1995, 104, 55-69.	1.5	13
62	Spatial learning by mice in three dimensions. <i>Behavioural Brain Research</i> , 2015, 289, 125-132.	2.2	12
63	Urban Architecture: A Cognitive Neuroscience Perspective. <i>Design Journal</i> , 2019, 22, 853-872.	0.8	12
64	Remembrance of futures past. <i>Trends in Cognitive Sciences</i> , 2004, 8, 197-199.	7.8	11
65	Transitions in Brain Evolution: Space, Time and Entropy. <i>Trends in Neurosciences</i> , 2020, 43, 467-474.	8.6	11
66	Place, space and memory cells. <i>Current Biology</i> , 2012, 22, R939-R942.	3.9	9
67	A framework for three-dimensional navigation research. <i>Behavioral and Brain Sciences</i> , 2013, 36, 571-587.	0.7	9
68	How environmental movement constraints shape the neural code for space. <i>Cognitive Processing</i> , 2021, 22, 97-104.	1.4	9
69	Do discrimination tasks discourage multi-dimensional stimulus processing? Evidence from a cross-modal object discrimination in rats. <i>Behavioural Brain Research</i> , 2007, 183, 213-221.	2.2	8
70	Spatial Cognition: Entorhinal Cortex and the Hippocampal Place-Cell Map. <i>Current Biology</i> , 2015, 25, R1181-R1183.	3.9	8
71	Context-independent directional cue learning by hippocampal place cells. <i>European Journal of Neuroscience</i> , 2004, 20, 281-292.	2.6	7
72	The fuzzy-boundary arena: A method for constraining an animal's range in spatial experiments without using walls. <i>Journal of Neuroscience Methods</i> , 2008, 167, 184-190.	2.5	6

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73	Distorting the metric fabric of the cognitive map. Trends in Cognitive Sciences, 2015, 19, 300-301.	7.8	6
74	Hippocampus and its interactions within the medial temporal lobe. Hippocampus, 2007, 17, 693-696.	1.9	5
75	Worm holes and avian space-time. Nature, 1998, 395, 215-216.	27.8	4
76	Plasticity of the Hippocampal Cellular Representation of Space. , 2000, , 100-122.		4
77	Social Spaces: Place Cells Represent the Locations of Others. Current Biology, 2018, 28, R271-R273.	3.9	4
78	Hippocampal Neurons: Simulating the Spatial Structure of a Complex Maze. Current Biology, 2014, 24, R643-R645.	3.9	3
79	Cognitive representations of spatial location. Brain and Neuroscience Advances, 2018, 2, 239821281881068.	3.4	3
80	Computational and biological perspectives on the problem of navigation. Connection Science, 2005, 17, 1-4.	3.0	2
81	Spatial Memory. , 2017, , 209-231.		2
82	What does climate change mean for occupational health professionals?. Occupational Medicine, 2020, 70, 386-388.	1.4	2
83	Visual imagination and cognitive mapping of a virtual building. Journal of Navigation, 2022, 75, 1-14.	1.7	2
84	Neural Odometry: The Discrete Charm of the Entorhinal Cortex. Current Biology, 2013, 23, R204-R206.	3.9	1
85	Spatial Mapping: Graded Precision of Entorhinal Head Direction Cells. Current Biology, 2014, 24, R113-R114.	3.9	1
86	Hidden Depths in the Hippocampal Circuitry. Neuron, 2016, 91, 499-501.	8.1	1
87	Neural Recording Using Digital Telemetry. Neuromethods, 2011, , 77-101.	0.3	1
88	The Place Cellsâ€™ Cognitive Map or Memory System?. , 2008, , 59-72.		1
89	LTP â€” A mechanism in search of a function. Behavioral and Brain Sciences, 2000, 23, 286-287.	0.7	0
90	Who moved my cheese (again)?. Nature Neuroscience, 2010, 13, 911-912.	14.8	0

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91	Recording the Spatial Mapping Cells: Place, Head Direction, and Grid Cells. Handbook of Behavioral Neuroscience, 2018, 28, 95-121.	0.7	0
92	Editorial: Coding for Spatial Orientation in Humans and Animals: Behavior, Circuits and Neurons. Frontiers in Neural Circuits, 2020, 14, 619073.	2.8	0
93	The Structural Logic of the Brain's Representation of Space: How Studies in Rodents can Inform Architectural Design for Humans. , 2022, , .		0