

Jeffrey S Taube

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Landmark-modulated directional coding in postrhinal cortex. <i>Science Advances</i> , 2022, 8, eabg8404.	10.3	18
2	Spatial context and the functional role of the postrhinal cortex. <i>Neurobiology of Learning and Memory</i> , 2022, 189, 107596.	1.9	8
3	Current Promises and Limitations of Combined Virtual Reality and Functional Magnetic Resonance Imaging Research in Humans: A Commentary on Huffman and Ekstrom (). <i>Journal of Cognitive Neuroscience</i> , 2021, 33, 159-166.	2.3	16
4	Anatomical projections to the dorsal tegmental nucleus and abducens nucleus arise from separate cell populations in the nucleus prepositus hypoglossi, but overlapping cell populations in the medial vestibular nucleus. <i>Journal of Comparative Neurology</i> , 2021, 529, 2706-2726.	1.6	0
5	Visual–vestibular interactions. , 2020, , 201-219.		7
6	On the absence or presence of 3D tuned head direction cells in rats: a review and rebuttal. <i>Journal of Neurophysiology</i> , 2020, 123, 1808-1827.	1.8	1
7	Commutative Properties of Head Direction Cells during Locomotion in 3D: Are All Routes Equal?. <i>Journal of Neuroscience</i> , 2020, 40, 3035-3051.	3.6	6
8	The Impact of Vestibular Signals on Cells Responsible for Orientation and Navigation. , 2020, , 496-511.		0
9	A sense of space in postrhinal cortex. <i>Science</i> , 2019, 365, .	12.6	85
10	Reply to Laurens and Angelaki: A model-based reassessment of the three-dimensional tuning of head direction cells in rats. <i>Journal of Neurophysiology</i> , 2019, 122, 1288-1289.	1.8	2
11	A Comparison of Neural Decoding Methods and Population Coding Across Thalamo-Cortical Head Direction Cells. <i>Frontiers in Neural Circuits</i> , 2019, 13, 75.	2.8	12
12	Functional and anatomical relationships between the medial precentral cortex, dorsal striatum, and head direction cell circuitry. I. Recording studies. <i>Journal of Neurophysiology</i> , 2019, 121, 350-370.	1.8	23
13	Functional and anatomical relationships between the medial precentral cortex, dorsal striatum, and head direction cell circuitry. II. Neuroanatomical studies. <i>Journal of Neurophysiology</i> , 2019, 121, 371-395.	1.8	9
14	Three-dimensional tuning of head direction cells in rats. <i>Journal of Neurophysiology</i> , 2019, 121, 4-37.	1.8	24
15	Bilateral postsubiculum lesions impair visual and nonvisual homing performance in rats.. <i>Behavioral Neuroscience</i> , 2019, 133, 496-507.	1.2	8
16	In Vivo Electrophysiological Approaches for Studying Head Direction Cells. <i>Handbook of Behavioral Neuroscience</i> , 2018, , 169-187.	0.7	1
17	New building blocks for navigation. <i>Nature Neuroscience</i> , 2017, 20, 131-133.	14.8	4
18	The Head-Direction Signal Plays a Functional Role as a Neural Compass during Navigation. <i>Current Biology</i> , 2017, 27, 1259-1267.	3.9	63

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19	Oscillatory synchrony between head direction cells recorded bilaterally in the anterodorsal thalamic nuclei. <i>Journal of Neurophysiology</i> , 2017, 117, 1847-1852.	1.8	13
20	Our sense of direction: progress, controversies and challenges. <i>Nature Neuroscience</i> , 2017, 20, 1465-1473.	14.8	154
21	Acetylcholine contributes to the integration of self-movement cues in head direction cells.. <i>Behavioral Neuroscience</i> , 2017, 131, 312-324.	1.2	6
22	Head Direction Cell Activity Is Absent in Mice without the Horizontal Semicircular Canals. <i>Journal of Neuroscience</i> , 2016, 36, 741-754.	3.6	61
23	The neural correlates of navigation beyond the hippocampus. <i>Progress in Brain Research</i> , 2015, 219, 83-102.	1.4	36
24	Visual Landmark Information Gains Control of the Head Direction Signal at the Lateral Mammillary Nuclei. <i>Journal of Neuroscience</i> , 2015, 35, 1354-1367.	3.6	51
25	Disruption of the head direction cell network impairs the parahippocampal grid cell signal. <i>Science</i> , 2015, 347, 870-874.	12.6	199
26	The Nucleus Prepositus Hypoglossi Contributes to Head Direction Cell Stability in Rats. <i>Journal of Neuroscience</i> , 2015, 35, 2547-2558.	3.6	26
27	Passive Transport Disrupts Grid Signals in the Parahippocampal Cortex. <i>Current Biology</i> , 2015, 25, 2493-2502.	3.9	82
28	Neural Representations of Direction (Head Direction Cells). , 2015, , 623-627.		0
29	The vestibular contribution to the head direction signal and navigation. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 32.	2.1	128
30	Self-motion improves head direction cell tuning. <i>Journal of Neurophysiology</i> , 2014, 111, 2479-2492.	1.8	30
31	Resolving the active versus passive conundrum for head direction cells. <i>Neuroscience</i> , 2014, 270, 123-138.	2.3	13
32	Head Direction Cells: From Generation to Integration. , 2014, , 83-106.		15
33	Is Navigation in Virtual Reality with fMRI Really Navigation?. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 1008-1019.	2.3	127
34	On the nature of three-dimensional encoding in the cognitive map: Commentary on Hayman, Verriotis, Jovalekic, Fenton, and Jeffery. <i>Hippocampus</i> , 2013, 23, 14-21.	1.9	18
35	Lesions of the dorsal tegmental nuclei disrupt control of navigation by distal landmarks in cued, directional, and place variants of the Morris water task.. <i>Behavioral Neuroscience</i> , 2013, 127, 566-581.	1.2	35
36	Updating of the spatial reference frame of head direction cells in response to locomotion in the vertical plane. <i>Journal of Neurophysiology</i> , 2013, 109, 873-888.	1.8	61

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37	Head direction cell activity in the anterodorsal thalamus requires intact supragenual nuclei. <i>Journal of Neurophysiology</i> , 2012, 108, 2767-2784.	1.8	39
38	Path integration: how the head direction signal maintains and corrects spatial orientation. <i>Nature Neuroscience</i> , 2012, 15, 1445-1453.	14.8	118
39	Vestibular and attractor network basis of the head direction cell signal in subcortical circuits. <i>Frontiers in Neural Circuits</i> , 2012, 6, 7.	2.8	114
40	Control of anterodorsal thalamic head direction cells by environmental boundaries: Comparison with conflicting distal landmarks. <i>Hippocampus</i> , 2012, 22, 172-187.	1.9	39
41	Origins of landmark encoding in the brain. <i>Trends in Neurosciences</i> , 2011, 34, 561-571.	8.6	122
42	Head direction cell firing properties and behavioural performance in 3D space. <i>Journal of Physiology</i> , 2011, 589, 835-841.	2.9	20
43	Both visual and idiothetic cues contribute to head direction cell stability during navigation along complex routes. <i>Journal of Neurophysiology</i> , 2011, 105, 2989-3001.	1.8	63
44	Projections to the anterodorsal thalamus and lateral mammillary nuclei arise from different cell populations within the postsubiculum: Implications for the control of head direction cells. <i>Hippocampus</i> , 2011, 21, 1062-1073.	1.9	35
45	Intact landmark control and angular path integration by head direction cells in the anterodorsal thalamus after lesions of the medial entorhinal cortex. <i>Hippocampus</i> , 2011, 21, 767-782.	1.9	43
46	Active and passive movement are encoded equally by head direction cells in the anterodorsal thalamus. <i>Journal of Neurophysiology</i> , 2011, 106, 788-800.	1.8	62
47	Impaired Head Direction Cell Representation in the Anterodorsal Thalamus after Lesions of the Retrosplenial Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 5289-5302.	3.6	102
48	Interspike Interval Analyses Reveal Irregular Firing Patterns at Short, But Not Long, Intervals in Rat Head Direction Cells. <i>Journal of Neurophysiology</i> , 2010, 104, 1635-1648.	1.8	23
49	Differentiating ascending vestibular pathways to the cortex involved in spatial cognition. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2010, 20, 3-23.	2.0	79
50	Directional learning, but no spatial mapping by rats performing a navigational task in an inverted orientation. <i>Neurobiology of Learning and Memory</i> , 2010, 93, 495-505.	1.9	58
51	Head Direction Cell Instability in the Anterior Dorsal Thalamus after Lesions of the Interpeduncular Nucleus. <i>Journal of Neuroscience</i> , 2009, 29, 493-507.	3.6	36
52	Disruption of the Head Direction Cell Signal after Occlusion of the Semicircular Canals in the Freely Moving Chinchilla. <i>Journal of Neuroscience</i> , 2009, 29, 14521-14533.	3.6	109
53	Head Direction Cell Activity in Mice: Robust Directional Signal Depends on Intact Otolith Organs. <i>Journal of Neuroscience</i> , 2009, 29, 1061-1076.	3.6	120
54	Where am I and how will I get there from here? A role for posterior parietal cortex in the integration of spatial information and route planning. <i>Neurobiology of Learning and Memory</i> , 2009, 91, 186-196.	1.9	103

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55	Deficits in landmark navigation and path integration after lesions of the interpeduncular nucleus.. Behavioral Neuroscience, 2009, 123, 490-503.	1.2	33
56	Landmark control and updating of self-movement cues are largely maintained in head direction cells after lesions of the posterior parietal cortex.. Behavioral Neuroscience, 2008, 122, 827-840.	1.2	31
57	Lesions of the Tegmentomammillary Circuit in the Head Direction System Disrupt the Head Direction Signal in the Anterior Thalamus. Journal of Neuroscience, 2007, 27, 7564-7577.	3.6	118
58	The Head Direction Signal: Origins and Sensory-Motor Integration. Annual Review of Neuroscience, 2007, 30, 181-207.	10.7	1,021
59	Neural Representations Supporting Spatial Navigation and Memory. , 2007, , 219-248.		2
60	Path integration and lesions within the head direction cell circuit: Comparison between the roles of the anterodorsal thalamus and dorsal tegmental nucleus.. Behavioral Neuroscience, 2006, 120, 135-149.	1.2	72
61	Passive Movements of the Head Do Not Abolish Anticipatory Firing Properties of Head Direction Cells. Journal of Neurophysiology, 2005, 93, 1304-1316.	1.8	38
62	Degradation of Head Direction Cell Activity during Inverted Locomotion. Journal of Neuroscience, 2005, 25, 2420-2428.	3.6	101
63	Head direction cell activity and behavior in a navigation task requiring a cognitive mapping strategy. Behavioural Brain Research, 2004, 153, 249-253.	2.2	29
64	Rat Head Direction Cell Responses in Zero-Gravity Parabolic Flight. Journal of Neurophysiology, 2004, 92, 2887-2997.	1.8	75
65	Persistent Neural Activity in Head Direction Cells. Cerebral Cortex, 2003, 13, 1162-1172.	2.9	159
66	Passive Transport Disrupts Directional Path Integration by Rat Head Direction Cells. Journal of Neurophysiology, 2003, 90, 2862-2874.	1.8	144
67	Hippocampal Place Cell Instability after Lesions of the Head Direction Cell Network. Journal of Neuroscience, 2003, 23, 9719-9731.	3.6	153
68	The Neural Correlates of Navigation: Do Head Direction and Place Cells Guide Spatial Behavior?. Behavioral and Cognitive Neuroscience Reviews, 2002, 1, 297-317.	3.9	29
69	Differences between appetitive and aversive reinforcement on reorientation in a spatial working memory task. Behavioural Brain Research, 2002, 136, 309-316.	2.2	26
70	Hippocampal spatial representations require vestibular input. Hippocampus, 2002, 12, 291-303.	1.9	329
71	Sensory Determinants of Head Direction Cell Activity. , 2002, , 141-161.		2
72	Neural Correlates for Angular Head Velocity in the Rat Dorsal Tegmental Nucleus. Journal of Neuroscience, 2001, 21, 5740-5751.	3.6	176

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73	On the behavioral significance of head direction cells: Neural and behavioral dynamics during spatial memory tasks.. Behavioral Neuroscience, 2001, 115, 285-304.	1.2	62
74	Statistical and information properties of head direction cells. Perception & Psychophysics, 2001, 63, 1026-1037.	2.3	4
75	Maintenance of Rat Head Direction Cell Firing During Locomotion in the Vertical Plane. Journal of Neurophysiology, 2000, 83, 393-405.	1.8	87
76	Head Direction Cells in Rats with Hippocampal or Overlying Neocortical Lesions: Evidence for Impaired Angular Path Integration. Journal of Neuroscience, 1999, 19, 7198-7211.	3.6	73
77	Some thoughts on place cells and the hippocampus. , 1999, 9, 452-457.		7
78	Recordings of postsubiculum head direction cells following lesions of the laterodorsal thalamic nucleus. Brain Research, 1998, 780, 9-19.	2.2	39
79	Comparisons of head direction cell activity in the postsubiculum and anterior thalamus of freely moving rats. Hippocampus, 1998, 8, 87-108.	1.9	381
80	Head direction cells and the neurophysiological basis for a sense of direction. Progress in Neurobiology, 1998, 55, 225-256.	5.7	400
81	Cue control and head direction cells.. Behavioral Neuroscience, 1998, 112, 749-761.	1.2	223
82	Firing Properties of Rat Lateral Mammillary Single Units: Head Direction, Head Pitch, and Angular Head Velocity. Journal of Neuroscience, 1998, 18, 9020-9037.	3.6	280
83	Comparisons of head direction cell activity in the postsubiculum and anterior thalamus of freely moving rats. , 1998, 8, 87.		3
84	Comparisons of head direction cell activity in the postsubiculum and anterior thalamus of freely moving rats. Hippocampus, 1998, 8, 87-108.	1.9	64
85	Effects of repeated disorientation on the acquisition of spatial tasks in rats: Dissociation between the appetitive radial arm maze and aversive water maze.. Journal of Experimental Psychology, 1997, 23, 194-210.	1.7	63
86	Correlation between head direction cell activity and spatial behavior on a radial arm maze.. Behavioral Neuroscience, 1997, 111, 3-19.	1.2	66
87	Firing Properties of Head Direction Cells in the Rat Anterior Thalamic Nucleus: Dependence on Vestibular Input. Journal of Neuroscience, 1997, 17, 4349-4358.	3.6	266
88	Interaction between the Postsubiculum and Anterior Thalamus in the Generation of Head Direction Cell Activity. Journal of Neuroscience, 1997, 17, 9315-9330.	3.6	210
89	Processing the head direction cell signal: A review and commentary. Brain Research Bulletin, 1996, 40, 477-484.	3.0	193
90	Head direction cells: properties and functional significance. Current Opinion in Neurobiology, 1996, 6, 196-206.	4.2	158

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91	Preferential use of the landmark navigational system by head direction cells in rats.. Behavioral Neuroscience, 1995, 109, 49-61.	1.2	120
92	Place cells recorded in the parasubiculum of freely moving rats. Hippocampus, 1995, 5, 569-583.	1.9	113
93	Electrophysiological properties of neurons in the rat subiculum in vitro. Experimental Brain Research, 1993, 96, 304-18.	1.5	107
94	Lesions of the rat postsubiculum impair performance on spatial tasks. Behavioral and Neural Biology, 1992, 57, 131-143.	2.2	116
95	Space, the final hippocampal frontier?. Hippocampus, 1991, 1, 247-249.	1.9	9
96	Intracellular recording from hippocampal CA1 interneurons before and after development of long-term potentiation. Brain Research, 1987, 419, 32-38.	2.2	48
97	Ineffectiveness of organic calcium channel blockers in antagonizing long-term potentiation. Brain Research, 1986, 379, 275-285.	2.2	45