

Hugo J Spiers

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

6,911
citations

38
h-index

83
g-index

111
ext. papers

8,263
ext. citations

8
avg, IF

6.23
L-index

#	Paper	IF	Citations
84	Prefrontal and medial temporal lobe interactions in long-term memory. <i>Nature Reviews Neuroscience</i> , 2003 , 4, 637-48	13.5	713
83	The well-worn route and the path less traveled: distinct neural bases of route following and wayfinding in humans. <i>Neuron</i> , 2003 , 37, 877-88	13.9	658
82	London taxi drivers and bus drivers: a structural MRI and neuropsychological analysis. <i>Hippocampus</i> , 2006 , 16, 1091-101	3.5	574
81	A temporoparietal and prefrontal network for retrieving the spatial context of lifelike events. <i>NeuroImage</i> , 2001 , 14, 439-53	7.9	404
80	The cognitive map in humans: spatial navigation and beyond. <i>Nature Neuroscience</i> , 2017 , 20, 1504-1513	25.5	279
79	Thoughts, behaviour, and brain dynamics during navigation in the real world. <i>NeuroImage</i> , 2006 , 31, 1826-40	7.9	257
78	Navigation expertise and the human hippocampus: a structural brain imaging analysis. <i>Hippocampus</i> , 2003 , 13, 250-9	3.5	252
77	Specialization in the medial temporal lobe for processing of objects and scenes. <i>Hippocampus</i> , 2005 , 15, 782-97	3.5	243
76	Unilateral temporal lobectomy patients show lateralized topographical and episodic memory deficits in a virtual town. <i>Brain</i> , 2001 , 124, 2476-89	11.2	228
75	Navigation around London by a taxi driver with bilateral hippocampal lesions. <i>Brain</i> , 2006 , 129, 2894-907	11.2	221
74	Hippocampal amnesia. <i>Neurocase</i> , 2001 , 7, 357-82	0.8	212
73	Bilateral hippocampal pathology impairs topographical and episodic memory but not visual pattern matching. <i>Hippocampus</i> , 2001 , 11, 715-25	3.5	166
72	The hippocampus and entorhinal cortex encode the path and Euclidean distances to goals during navigation. <i>Current Biology</i> , 2014 , 24, 1331-1340	6.3	161
71	A navigational guidance system in the human brain. <i>Hippocampus</i> , 2007 , 17, 618-26	3.5	155
70	Decoding human brain activity during real-world experiences. <i>Trends in Cognitive Sciences</i> , 2007 , 11, 356-65	1.5	140
69	Hippocampal place cells construct reward related sequences through unexplored space. <i>ELife</i> , 2015 , 4, e06063	8.9	140
68	Neural substrates of driving behaviour. <i>NeuroImage</i> , 2007 , 36, 245-55	7.9	124

67	Global Determinants of Navigation Ability. <i>Current Biology</i> , 2018 , 28, 2861-2866.e4	6.3	118
66	Oriental manoeuvres in the dark: dissociating allocentric and egocentric influences on spatial memory. <i>Cognition</i> , 2004 , 94, 149-66	3.5	111
65	Double dissociation between hippocampal and parahippocampal responses to object-background context and scene novelty. <i>Journal of Neuroscience</i> , 2011 , 31, 5253-61	6.6	107
64	The dynamic nature of cognition during wayfinding. <i>Journal of Environmental Psychology</i> , 2008 , 28, 232-249	6.7	107
63	Spontaneous mentalizing during an interactive real world task: an fMRI study. <i>Neuropsychologia</i> , 2006 , 44, 1674-82	3.2	97
62	The neuroscience of remote spatial memory: a tale of two cities. <i>Neuroscience</i> , 2007 , 149, 7-27	3.9	92
61	Hippocampal and prefrontal processing of network topology to simulate the future. <i>Nature Communications</i> , 2017 , 8, 14652	17.4	85
60	A goal direction signal in the human entorhinal/subicular region. <i>Current Biology</i> , 2015 , 25, 87-92	6.3	85
59	Place field repetition and purely local remapping in a multicompartment environment. <i>Cerebral Cortex</i> , 2015 , 25, 10-25	5.1	78
58	Neural systems supporting navigation. <i>Current Opinion in Behavioral Sciences</i> , 2015 , 1, 47-55	4	77
57	Neural Mechanisms of Hierarchical Planning in a Virtual Subway Network. <i>Neuron</i> , 2016 , 90, 893-903	13.9	66
56	Path integration following temporal lobectomy in humans. <i>Neuropsychologia</i> , 2001 , 39, 452-64	3.2	63
55	Toward personalized cognitive diagnostics of at-genetic-risk Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 9285-9292	11.5	54
54	Virtual navigation tested on a mobile app is predictive of real-world wayfinding navigation performance. <i>PLoS ONE</i> , 2019 , 14, e0213272	3.7	53
53	Enhance, delete, incept: manipulating hippocampus-dependent memories. <i>Brain Research Bulletin</i> , 2014 , 105, 2-7	3.9	50
52	Semantic representations in the temporal pole predict false memories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10180-5	11.5	49
51	Talent in the taxi: a model system for exploring expertise. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 1407-16	5.8	47
50	Solving the detour problem in navigation: a model of prefrontal and hippocampal interactions. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 125	3.3	43

49	Egocentric versus Allocentric Spatial Memory in Behavioral Variant Frontotemporal Dementia and Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017 , 59, 883-892	4.3	40
48	Keeping the goal in mind: prefrontal contributions to spatial navigation. <i>Neuropsychologia</i> , 2008 , 46, 2106-8	3.2	40
47	Anterior prefrontal involvement in episodic retrieval reflects contextual interference. <i>NeuroImage</i> , 2005 , 28, 256-67	7.9	40
46	Human Spatial Navigation 2018 ,		35
45	Impaired spatial and non-spatial configural learning in patients with hippocampal pathology. <i>Neuropsychologia</i> , 2007 , 45, 2699-711	3.2	34
44	Hippocampal and Retrosplenial Goal Distance Coding After Long-term Consolidation of a Real-World Environment. <i>Cerebral Cortex</i> , 2019 , 29, 2748-2758	5.1	33
43	Contracted time and expanded space: The impact of circumnavigation on judgements of space and time. <i>Cognition</i> , 2017 , 166, 425-432	3.5	24
42	Hippocampal CA1 activity correlated with the distance to the goal and navigation performance. <i>Hippocampus</i> , 2018 , 28, 644-658	3.5	21
41	Oscillatory Reinstatement Enhances Declarative Memory. <i>Journal of Neuroscience</i> , 2017 , 37, 9939-9944	6.6	19
40	Transcranial electrical brain stimulation modulates neuronal tuning curves in perception of numerosity and duration. <i>NeuroImage</i> , 2014 , 102 Pt 2, 451-7	7.9	17
39	Anterior Temporal Lobe Tracks the Formation of Prejudice. <i>Journal of Cognitive Neuroscience</i> , 2017 , 29, 530-544	3.1	17
38	Familiarity expands space and contracts time. <i>Hippocampus</i> , 2017 , 27, 12-16	3.5	17
37	Cognitive mapping style relates to posterior-anterior hippocampal volume ratio. <i>Hippocampus</i> , 2019 , 29, 748-754	3.5	16
36	Sculptors, Architects, and Painters Conceive of Depicted Spaces Differently. <i>Cognitive Science</i> , 2018 , 42, 524-553	2.2	15
35	The Versatile Wayfinder: Prefrontal Contributions to Spatial Navigation. <i>Trends in Cognitive Sciences</i> , 2021 , 25, 520-533	14	15
34	Dissociation between dorsal and ventral posterior parietal cortical responses to incidental changes in natural scenes. <i>PLoS ONE</i> , 2013 , 8, e67988	3.7	14
33	Prefrontal Dynamics Associated with Efficient Detours and Shortcuts: A Combined Functional Magnetic Resonance Imaging and Magnetoencephalography Study. <i>Journal of Cognitive Neuroscience</i> , 2019 , 31, 1227-1247	3.1	13
32	Does the Hippocampus Map Out the Future?. <i>Trends in Cognitive Sciences</i> , 2016 , 20, 167-169	14	13

31	Hippocampal place cells encode global location but not connectivity in a complex space. <i>Current Biology</i> , 2021 , 31, 1221-1233.e9	6.3	13
30	The Hippocampal Cognitive Map: One Space or Many?. <i>Trends in Cognitive Sciences</i> , 2020 , 24, 168-170	14	12
29	Backtracking during navigation is correlated with enhanced anterior cingulate activity and suppression of alpha oscillations and the default-mode network. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20191016	4.4	11
28	Striatal and hippocampal contributions to flexible navigation in rats and humans. <i>Brain and Neuroscience Advances</i> , 2020 , 4, 2398212820979772	4	11
27	Sleep enhances a spatially mediated generalization of learned values. <i>Learning and Memory</i> , 2015 , 22, 532-6	2.8	10
26	Diagnostic relevance of spatial orientation for vascular dementia: A case study. <i>Dementia E Neuropsychologia</i> , 2018 , 12, 85-91	2.1	10
25	Entropy of city street networks linked to future spatial navigation ability.. <i>Nature</i> , 2022 ,	50.4	9
24	Human Navigation: Occipital Place Area Detects Potential Paths in a Scene. <i>Current Biology</i> , 2017 , 27, R599-R600	6.3	7
23	Cities have a negative impact on navigation ability: evidence from 38 countries		7
22	A local anchor for the brain's compass. <i>Nature Neuroscience</i> , 2014 , 17, 1436-7	25.5	6
21	Explaining World-Wide Variation in Navigation Ability from Millions of People: Citizen Science Project Sea Hero Quest. <i>Topics in Cognitive Science</i> , 2021 ,	2.5	6
20	Spatial Cognition: Goal-Vector Cells in the Bat Hippocampus. <i>Current Biology</i> , 2017 , 27, R239-R241	6.3	5
19	Chronologically organized structure in autobiographical memory search. <i>Frontiers in Psychology</i> , 2015 , 6, 338	3.4	5
18	Test-retest reliability of spatial navigation in adults at-risk of Alzheimer's disease. <i>PLoS ONE</i> , 2020 , 15, e0239077	3.7	5
17	Virtual navigation tested on a mobile app is predictive of real-world wayfinding navigation performance		5
16	Neuroscience: teleporting mind into body and space. <i>Current Biology</i> , 2015 , 25, R448-50	6.3	4
15	Part or parcel? Contextual binding of events in episodic memory 2006 , 52-83		4
14	Spatial goal coding in the hippocampal formation.. <i>Neuron</i> , 2022 ,	13.9	4

13	Long-term consolidation switches goal proximity coding from hippocampus to retrosplenial cortex		4
12	Global determinants of navigation ability		4
11	Predictive Maps in Rats and Humans for Spatial Navigation: The Successor Representation Explains Flexible Behaviour		4
10	Spatial Cognition: Finding the Boundary in the Occipital Place Area. <i>Current Biology</i> , 2016 , 26, R323-5	6.3	3
9	What determines a boundary for navigating a complex street network: evidence from London taxi drivers. <i>Journal of Navigation</i> , 1-20	2.3	2
8	Manipulating Hippocampus-Dependent Memories: To Enhance, Delete or Incept? 2017 , 123-137		2
7	Learning The Knowledge: How London Taxi Drivers Build Their Cognitive Map of London		2
6	Computer models of saliency alone fail to predict subjective visual attention to landmarks during observed navigation. <i>Spatial Cognition and Computation</i> , 2021 , 21, 39-66	1.3	2
5	Spotting the path that leads nowhere: Modulation of human theta and alpha oscillations induced by trajectory changes during navigation		1
4	Exposure to high-rise buildings negatively influences affect: evidence from real world and 360-degree video. <i>Cities and Health</i> , 2020 , 1-13	2.8	1
3	London taxi drivers: A review of neurocognitive studies and an exploration of how they build their cognitive map of London.. <i>Hippocampus</i> , 2022 , 32, 3-20	3.5	1
2	Extending neural systems for navigation to hunting behavior.. <i>Current Opinion in Neurobiology</i> , 2022 , 73, 102545	7.6	1
1	Cracking the mnemonic code. <i>Nature Neuroscience</i> , 2016 , 20, 8-9		25.5