

Thomas Wolbers

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

4,451
citations

126907

33
h-index

114465

63
g-index

75
all docs

75
docs citations

75
times ranked

3989
citing authors

#	ARTICLE	IF	CITATIONS
1	What determines our navigational abilities?. Trends in Cognitive Sciences, 2010, 14, 138-146.	7.8	613
2	Hippocampus activity differentiates good from poor learners of a novel lexicon. NeuroImage, 2005, 25, 958-968.	4.2	287
3	Dissociable Retrosplenial and Hippocampal Contributions to Successful Formation of Survey Representations. Journal of Neuroscience, 2005, 25, 3333-3340.	3.6	283
4	The Aging Navigational System. Neuron, 2017, 95, 1019-1035.	8.1	256
5	Differential Recruitment of the Hippocampus, Medial Prefrontal Cortex, and the Human Motion Complex during Path Integration in Humans. Journal of Neuroscience, 2007, 27, 9408-9416.	3.6	197
6	Challenges for identifying the neural mechanisms that support spatial navigation: the impact of spatial scale. Frontiers in Human Neuroscience, 2014, 8, 571.	2.0	192
7	Spatial updating: how the brain keeps track of changing object locations during observer motion. Nature Neuroscience, 2008, 11, 1223-1230.	14.8	143
8	The Human Retrosplenial Cortex and Thalamus Code Head Direction in a Global Reference Frame. Journal of Neuroscience, 2016, 36, 6371-6381.	3.6	128
9	Maladaptive Bias for Extrahippocampal Navigation Strategies in Aging Humans. Journal of Neuroscience, 2013, 33, 6012-6017.	3.6	127
10	Modality-Independent Coding of Spatial Layout in the Human Brain. Current Biology, 2011, 21, 984-989.	3.9	125
11	Neural foundations of emerging route knowledge in complex spatial environments. Cognitive Brain Research, 2004, 21, 401-411.	3.0	121
12	The Human Dentate Gyrus Plays a Necessary Role in Discriminating New Memories. Current Biology, 2016, 26, 2629-2634.	3.9	110
13	Ageing effects on path integration and landmark navigation. Hippocampus, 2012, 22, 1770-1780.	1.9	100
14	Cardiovascular fitness modulates brain activation associated with spatial learning. NeuroImage, 2012, 59, 3003-3014.	4.2	94
15	Aging specifically impairs switching to an allocentric navigational strategy. Frontiers in Aging Neuroscience, 2012, 4, 29.	3.4	94
16	Compromised Grid-Cell-like Representations in Old Age as a Key Mechanism to Explain Age-Related Navigational Deficits. Current Biology, 2018, 28, 1108-1115.e6.	3.9	93
17	Dissociable contributions within the medial temporal lobe to encoding of object-location associations. Learning and Memory, 2005, 12, 343-351.	1.3	91
18	How cognitive aging affects multisensory integration of navigational cues. Neurobiology of Aging, 2014, 35, 2761-2769.	3.1	85

#	ARTICLE	IF	CITATIONS
19	How age-related strategy switching deficits affect wayfinding in complex environments. <i>Neurobiology of Aging</i> , 2014, 35, 1095-1102.	3.1	82
20	The potential of virtual reality for spatial navigation research across the adult lifespan. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	74
21	Decoding the direction of auditory motion in blind humans. <i>NeuroImage</i> , 2011, 56, 681-687.	4.2	72
22	Dissociable cognitive mechanisms underlying human path integration. <i>Experimental Brain Research</i> , 2011, 208, 61-71.	1.5	72
23	Cue combination in human spatial navigation. <i>Cognitive Psychology</i> , 2017, 95, 105-144.	2.2	70
24	Embodiment in the aging mind. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 86, 207-225.	6.1	59
25	Implementation of visuospatial cues in response selection. <i>NeuroImage</i> , 2006, 29, 286-294.	4.2	56
26	Rest boosts the long-term retention of spatial associative and temporal order information. <i>Hippocampus</i> , 2015, 25, 1017-1027.	1.9	46
27	The predictive value of white matter organization in posterior parietal cortex for spatial visualization ability. <i>NeuroImage</i> , 2006, 32, 1450-1455.	4.2	45
28	Rotated alphanumeric characters do not automatically activate frontoparietal areas subserving mental rotation. <i>NeuroImage</i> , 2009, 44, 1063-1073.	4.2	45
29	Wakeful rest promotes the integration of spatial memories into accurate cognitive maps. <i>Hippocampus</i> , 2016, 26, 185-193.	1.9	44
30	Changes in Connectivity Profiles as a Mechanism for Strategic Control over Interfering Subliminal Information. <i>Cerebral Cortex</i> , 2006, 16, 857-864.	2.9	42
31	Changes in pattern completion “ A key mechanism to explain age-related recognition memory deficits?. <i>Cortex</i> , 2015, 64, 343-351.	2.4	42
32	Learning New Sensorimotor Contingencies: Effects of Long-Term Use of Sensory Augmentation on the Brain and Conscious Perception. <i>PLoS ONE</i> , 2016, 11, e0166647.	2.5	41
33	Effects of a cognitive training on spatial learning and associated functional brain activations. <i>BMC Neuroscience</i> , 2013, 14, 73.	1.9	39
34	Sources of path integration error in young and aging humans. <i>Nature Communications</i> , 2020, 11, 2626.	12.8	35
35	Space, time, and numbers in the right posterior parietal cortex: Differences between response code associations and congruency effects. <i>NeuroImage</i> , 2016, 129, 72-79.	4.2	31
36	Comparable rest-related promotion of spatial memory consolidation in younger and older adults. <i>Neurobiology of Aging</i> , 2016, 48, 143-152.	3.1	29

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37	A novel virtual-reality-based route-learning test suite: Assessing the effects of cognitive aging on navigation. <i>Behavior Research Methods</i> , 2020, 52, 630-640.	4.0	28
38	Neural Dynamics of Learning Sound-Action Associations. <i>PLoS ONE</i> , 2008, 3, e3845.	2.5	25
39	Physiological signal variability in hMT+ reflects performance on a direction discrimination task. <i>Frontiers in Psychology</i> , 2011, 2, 185.	2.1	24
40	Path integration in normal aging and Alzheimer's disease. <i>Trends in Cognitive Sciences</i> , 2022, 26, 142-158.	7.8	21
41	Representation of Spatial Information in Key Areas of the Descending Pain Modulatory System. <i>Journal of Neuroscience</i> , 2014, 34, 4634-4639.	3.6	20
42	Spatial memory: a unique window into healthy and pathological aging. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 35.	3.4	19
43	The GridCAT: A Toolbox for Automated Analysis of Human Grid Cell Codes in fMRI. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 47.	2.5	19
44	Increased Hippocampal Excitability and Altered Learning Dynamics Mediate Cognitive Mapping Deficits in Human Aging. <i>Journal of Neuroscience</i> , 2021, 41, 3204-3221.	3.6	19
45	The Effects of Attentional Engagement on Route Learning Performance in a Virtual Environment: An Aging Study. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 235.	3.4	18
46	Timing deficiencies in amnesic Mild Cognitive Impairment: Disentangling clock and memory processes. <i>Behavioural Brain Research</i> , 2019, 373, 112110.	2.2	18
47	Aging and spatial cues influence the updating of navigational memories. <i>Scientific Reports</i> , 2019, 9, 11469.	3.3	17
48	Computing distance information from landmarks and self-motion cues - Differential contributions of anterior-lateral vs. posterior-medial entorhinal cortex in humans. <i>NeuroImage</i> , 2019, 202, 116074.	4.2	17
49	The effect of feedback on temporal error monitoring and timing behavior. <i>Behavioural Brain Research</i> , 2019, 369, 111929.	2.2	15
50	Spatial Updating Depends on Gravity. <i>Frontiers in Neural Circuits</i> , 2020, 14, 20.	2.8	14
51	Repetitive transcranial magnetic stimulation reveals a causal role of the human precuneus in spatial updating. <i>Scientific Reports</i> , 2018, 8, 10171.	3.3	13
52	On the (a)symmetry between the perception of time and space in large-scale environments. <i>Hippocampus</i> , 2018, 28, 539-548.	1.9	12
53	Preserved multisensory body representations in advanced age. <i>Scientific Reports</i> , 2019, 9, 2663.	3.3	12
54	Spatial updating deficits in human aging are associated with traces of former memory representations. <i>Neurobiology of Aging</i> , 2019, 76, 53-61.	3.1	12

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55	Temporal context effects are associated with cognitive status in advanced age. <i>Psychological Research</i> , 2022, 86, 512-521.	1.7	10
56	Memory Image Completion: Establishing a task to behaviorally assess pattern completion in humans. <i>Hippocampus</i> , 2019, 29, 340-351.	1.9	9
57	Age-related changes in time perception: The impact of naturalistic environments and retrospective judgements on timing performance. <i>Quarterly Journal of Experimental Psychology</i> , 2021, 74, 2002-2012.	1.1	9
58	Systematic Underreproduction of Time Is Independent of Judgment Certainty. <i>Neural Plasticity</i> , 2016, 2016, 1-8.	2.2	5
59	Social targets improve body-based and environment-based strategies during spatial navigation. <i>Experimental Brain Research</i> , 2018, 236, 755-764.	1.5	4
60	Rapid improvement of cognitive maps in the awake state. <i>Hippocampus</i> , 2019, 29, 862-868.	1.9	4
61	Negative errors in time reproduction tasks. <i>Psychological Research</i> , 2020, 84, 168-176.	1.7	4
62	Reaching the Goal: Superior Navigators in Late Adulthood Provide a Novel Perspective into Successful Cognitive Aging. <i>Topics in Cognitive Science</i> , 2023, 15, 15-45.	1.9	4
63	Spatial Navigation. , 2015, , 161-171.		3
64	Population-Level Analysis of Human Grid Cell Activation. <i>NeuroMethods</i> , 2019, , 257-279.	0.3	3
65	Impaired remapping of social relationships in older adults. <i>Scientific Reports</i> , 2021, 11, 21910.	3.3	2
66	Cross-dimensional interference between time and distance during spatial navigation is mediated by speed representations in intraparietal sulcus and area hMT+. <i>NeuroImage</i> , 2022, 257, 119336.	4.2	2
67	Using Discrete Time Markov Chains for Control of Idle Character Animation. , 2018, , .		1
68	Reducing the tendency for chronometric counting in duration discrimination tasks. <i>Attention, Perception, and Psychophysics</i> , 0, , .	1.3	1