

Neil Burgess

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.

153
papers

23,524
citations

74
h-index

153
g-index

159
ext. papers

27,064
ext. citations

9
avg, IF

7.32
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 153 | The human hippocampus and spatial and episodic memory. <i>Neuron</i> , 2002 , 35, 625-41 | 13.9 | 1612 |
| 152 | Knowing where and getting there: a human navigation network. <i>Science</i> , 1998 , 280, 921-4 | 33.3 | 1018 |
| 151 | Geometric determinants of the place fields of hippocampal neurons. <i>Nature</i> , 1996 , 381, 425-8 | 50.4 | 828 |
| 150 | Intrusive images in psychological disorders: characteristics, neural mechanisms, and treatment implications. <i>Psychological Review</i> , 2010 , 117, 210-32 | 6.3 | 713 |
| 149 | The hippocampus and memory: insights from spatial processing. <i>Nature Reviews Neuroscience</i> , 2008 , 9, 182-94 | 13.5 | 693 |
| 148 | Evidence for grid cells in a human memory network. <i>Nature</i> , 2010 , 463, 657-61 | 50.4 | 691 |
| 147 | Development of the hippocampal cognitive map in preweanling rats. <i>Science</i> , 2010 , 328, 1573-6 | 33.3 | 686 |
| 146 | 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 |
| 145 | Remembering the past and imagining the future: a neural model of spatial memory and imagery. <i>Psychological Review</i> , 2007 , 114, 340-75 | 6.3 | 647 |
| 144 | Dual phase and rate coding in hippocampal place cells: theoretical significance and relationship to entorhinal grid cells. <i>Hippocampus</i> , 2005 , 15, 853-66 | 3.5 | 590 |
| 143 | An oscillatory interference model of grid cell firing. <i>Hippocampus</i> , 2007 , 17, 801-12 | 3.5 | 524 |
| 142 | Spatial memory: how egocentric and allocentric combine. <i>Trends in Cognitive Sciences</i> , 2006 , 10, 551-7 | 14 | 517 |
| 141 | Boundary vector cells in the subiculum of the hippocampal formation. <i>Journal of Neuroscience</i> , 2009 , 29, 9771-7 | 6.6 | 474 |
| 140 | Attractor dynamics in the hippocampal representation of the local environment. <i>Science</i> , 2005 , 308, 873-8 | 33.3 | 455 |
| 139 | Independent rate and temporal coding in hippocampal pyramidal cells. <i>Nature</i> , 2003 , 425, 828-32 | 50.4 | 427 |
| 138 | A temporoparietal and prefrontal network for retrieving the spatial context of lifelike events. <i>NeuroImage</i> , 2001 , 14, 439-53 | 7.9 | 404 |
| 137 | Experience-dependent rescaling of entorhinal grids. <i>Nature Neuroscience</i> , 2007 , 10, 682-4 | 25.5 | 396 |

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| 136 | Parallel striatal and hippocampal systems for landmarks and boundaries in spatial memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5915-20 | 11.5 | 392 |
| 135 | Spatial cognition and the brain. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1124, 77-97 | 6.5 | 360 |
| 134 | Long-term plasticity in hippocampal place-cell representation of environmental geometry. <i>Nature</i> , 2002 , 416, 90-4 | 50.4 | 335 |
| 133 | Knowing where things are parahippocampal involvement in encoding object locations in virtual large-scale space. <i>Journal of Cognitive Neuroscience</i> , 1998 , 10, 61-76 | 3.1 | 319 |
| 132 | A model of hippocampal function. <i>Neural Networks</i> , 1994 , 7, 1065-1081 | 9.1 | 288 |
| 131 | Modeling place fields in terms of the cortical inputs to the hippocampus. <i>Hippocampus</i> , 2000 , 10, 369-79 | 3.5 | 278 |
| 130 | Recoding, storage, rehearsal and grouping in verbal short-term memory: an fMRI study. <i>Neuropsychologia</i> , 2000 , 38, 426-40 | 3.2 | 274 |
| 129 | Toward a network model of the articulatory loop*1. <i>Journal of Memory and Language</i> , 1992 , 31, 429-460 | 3.8 | 274 |
| 128 | Space in the brain: how the hippocampal formation supports spatial cognition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20120510 | 5.8 | 271 |
| 127 | Navigation expertise and the human hippocampus: a structural brain imaging analysis. <i>Hippocampus</i> , 2003 , 13, 250-9 | 3.5 | 252 |
| 126 | The hippocampus is required for short-term topographical memory in humans. <i>Hippocampus</i> , 2007 , 17, 34-48 | 3.5 | 247 |
| 125 | Human spatial navigation: cognitive maps, sexual dimorphism, and neural substrates. <i>Current Opinion in Neurobiology</i> , 1999 , 9, 171-7 | 7.6 | 239 |
| 124 | The boundary vector cell model of place cell firing and spatial memory. <i>Reviews in the Neurosciences</i> , 2006 , 17, 71-97 | 4.7 | 233 |
| 123 | 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 |
| 122 | Brain oscillations and memory. <i>Current Opinion in Neurobiology</i> , 2010 , 20, 143-9 | 7.6 | 222 |
| 121 | Human hippocampus and viewpoint dependence in spatial memory. <i>Hippocampus</i> , 2002 , 12, 811-20 | 3.5 | 219 |
| 120 | Neuronal computations underlying the firing of place cells and their role in navigation. <i>Hippocampus</i> , 1996 , 6, 749-62 | 3.5 | 217 |
| 119 | Hippocampal amnesia. <i>Neurocase</i> , 2001 , 7, 357-82 | 0.8 | 212 |

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| 118 | Distinct error-correcting and incidental learning of location relative to landmarks and boundaries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5909-14 | 11.5 | 210 |
| 117 | How vision and movement combine in the hippocampal place code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 378-83 | 11.5 | 208 |
| 116 | Grid cells and theta as oscillatory interference: theory and predictions. <i>Hippocampus</i> , 2008 , 18, 1157-74 | 3.5 | 198 |
| 115 | Lateralized human hippocampal activity predicts navigation based on sequence or place memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14466-71 | 11.5 | 193 |
| 114 | A revised model of short-term memory and long-term learning of verbal sequences. <i>Journal of Memory and Language</i> , 2006 , 55, 627-652 | 3.8 | 189 |
| 113 | Bilateral hippocampal pathology impairs topographical and episodic memory but not visual pattern matching. <i>Hippocampus</i> , 2001 , 11, 715-25 | 3.5 | 166 |
| 112 | Specific evidence of low-dimensional continuous attractor dynamics in grid cells. <i>Nature Neuroscience</i> , 2013 , 16, 1077-84 | 25.5 | 163 |
| 111 | Evidence for holistic episodic recollection via hippocampal pattern completion. <i>Nature Communications</i> , 2015 , 6, 7462 | 17.4 | 145 |
| 110 | Grid cells and theta as oscillatory interference: electrophysiological data from freely moving rats. <i>Hippocampus</i> , 2008 , 18, 1175-85 | 3.5 | 143 |
| 109 | Grid cell firing patterns signal environmental novelty by expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17687-92 | 11.5 | 131 |
| 108 | Environmental novelty is signaled by reduction of the hippocampal theta frequency. <i>Hippocampus</i> , 2008 , 18, 340-8 | 3.5 | 130 |
| 107 | Differential developmental trajectories for egocentric, environmental and intrinsic frames of reference in spatial memory. <i>Cognition</i> , 2006 , 101, 153-72 | 3.5 | 123 |
| 106 | Predictions derived from modelling the hippocampal role in navigation. <i>Biological Cybernetics</i> , 2000 , 83, 301-12 | 2.8 | 123 |
| 105 | Theta-modulated place-by-direction cells in the hippocampal formation in the rat. <i>Journal of Neuroscience</i> , 2004 , 24, 8265-77 | 6.6 | 121 |
| 104 | Using Grid Cells for Navigation. <i>Neuron</i> , 2015 , 87, 507-20 | 13.9 | 120 |
| 103 | Models of place and grid cell firing and theta rhythmicity. <i>Current Opinion in Neurobiology</i> , 2011 , 21, 734-46 | 4.6 | 117 |
| 102 | Geometric determinants of human spatial memory. <i>Cognition</i> , 2004 , 94, 39-75 | 3.5 | 117 |
| 101 | The Cognitive Architecture of Spatial Navigation: Hippocampal and Striatal Contributions. <i>Neuron</i> , 2015 , 88, 64-77 | 13.9 | 111 |

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| 100 | Oriental manoeuvres in the dark: dissociating allocentric and egocentric influences on spatial memory. <i>Cognition</i> , 2004 , 94, 149-66 | 3.5 | 111 |
| 99 | Neural representations of location composed of spatially periodic bands. <i>Science</i> , 2012 , 337, 853-7 | 33.3 | 109 |
| 98 | Computational models of working memory: putting long-term memory into context. <i>Trends in Cognitive Sciences</i> , 2005 , 9, 535-41 | 14 | 100 |
| 97 | Neural mechanisms of self-location. <i>Current Biology</i> , 2014 , 24, R330-9 | 6.3 | 99 |
| 96 | Anterior hippocampus and goal-directed spatial decision making. <i>Journal of Neuroscience</i> , 2011 , 31, 4613-21 | 13.7 | 99 |
| 95 | Imagining being somewhere else: neural basis of changing perspective in space. <i>Cerebral Cortex</i> , 2012 , 22, 166-74 | 5.1 | 96 |
| 94 | Grid-like Processing of Imagined Navigation. <i>Current Biology</i> , 2016 , 26, 842-7 | 6.3 | 94 |
| 93 | Movement-related theta rhythm in humans: coordinating self-directed hippocampal learning. <i>PLoS Biology</i> , 2012 , 10, e1001267 | 9.7 | 94 |
| 92 | The hippocampus, space, and viewpoints in episodic memory. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 2002 , 55, 1057-80 | | 93 |
| 91 | Neurodevelopmental aspects of spatial navigation: a virtual reality fMRI study. <i>NeuroImage</i> , 2002 , 15, 396-406 | 7.9 | 93 |
| 90 | Peripheral inflammation acutely impairs human spatial memory via actions on medial temporal lobe glucose metabolism. <i>Biological Psychiatry</i> , 2014 , 76, 585-93 | 7.9 | 90 |
| 89 | A hybrid oscillatory interference/continuous attractor network model of grid cell firing. <i>Journal of Neuroscience</i> , 2014 , 34, 5065-79 | 6.6 | 86 |
| 88 | Consolidation of Complex Events via Reinstatement in Posterior Cingulate Cortex. <i>Journal of Neuroscience</i> , 2015 , 35, 14426-34 | 6.6 | 83 |
| 87 | Topographical short-term memory differentiates Alzheimer's disease from frontotemporal lobar degeneration. <i>Hippocampus</i> , 2010 , 20, 1154-69 | 3.5 | 83 |
| 86 | Evidence for encoding versus retrieval scheduling in the hippocampus by theta phase and acetylcholine. <i>Journal of Neuroscience</i> , 2013 , 33, 8689-704 | 6.6 | 82 |
| 85 | Parallel memory systems for talking about location and age in precuneus, caudate and Broca's region. <i>NeuroImage</i> , 2006 , 32, 1850-64 | 7.9 | 81 |
| 84 | What do grid cells contribute to place cell firing?. <i>Trends in Neurosciences</i> , 2014 , 37, 136-45 | 13.3 | 80 |
| 83 | The role of landmarks and boundaries in the development of spatial memory. <i>Developmental Science</i> , 2010 , 13, 170-80 | 4.5 | 79 |

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| 82 | Establishing the boundaries: the hippocampal contribution to imagining scenes. <i>Journal of Neuroscience</i> , 2010 , 30, 11688-95 | 6.6 | 77 |
| 81 | The role of spatial boundaries in shaping long-term event representations. <i>Cognition</i> , 2016 , 154, 151-164 | 5.5 | 77 |
| 80 | Grid cells form a global representation of connected environments. <i>Current Biology</i> , 2015 , 25, 1176-82 | 6.3 | 74 |
| 79 | Directional control of hippocampal place fields. <i>Experimental Brain Research</i> , 1997 , 117, 131-42 | 2.3 | 73 |
| 78 | A metric for the cognitive map: found at last?. <i>Trends in Cognitive Sciences</i> , 2006 , 10, 1-3 | 14 | 73 |
| 77 | Selective interference with verbal short-term memory for serial order information: a new paradigm and tests of a timing-signal hypothesis. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 2003 , 56, 1307-34 | | 73 |
| 76 | Interaction Between Hippocampus and Cerebellum Crus I in Sequence-Based but not Place-Based Navigation. <i>Cerebral Cortex</i> , 2015 , 25, 4146-54 | 5.1 | 71 |
| 75 | Differentiation of mild cognitive impairment using an entorhinal cortex-based test of virtual reality navigation. <i>Brain</i> , 2019 , 142, 1751-1766 | 11.2 | 70 |
| 74 | Medial prefrontal theta phase coupling during spatial memory retrieval. <i>Hippocampus</i> , 2014 , 24, 656-65 | 3.5 | 70 |
| 73 | A neural-level model of spatial memory and imagery. <i>ELife</i> , 2018 , 7, | 8.9 | 70 |
| 72 | Visual influence on path integration in darkness indicates a multimodal representation of large-scale space. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1152-7 | 11.5 | 69 |
| 71 | Doing the right thing: a common neural circuit for appropriate violent or compassionate behavior. <i>NeuroImage</i> , 2006 , 30, 1069-76 | 7.9 | 68 |
| 70 | The hippocampal role in spatial memory and the familiarity--recollection distinction: a case study. <i>Neuropsychology</i> , 2004 , 18, 405-17 | 3.8 | 68 |
| 69 | Theta activity, virtual navigation and the human hippocampus. <i>Trends in Cognitive Sciences</i> , 1999 , 3, 403-406 | 4.6 | 67 |
| 68 | Negative affect impairs associative memory but not item memory. <i>Learning and Memory</i> , 2013 , 21, 21-7 | 2.8 | 66 |
| 67 | Complementary memory systems: competition, cooperation and compensation. <i>Trends in Neurosciences</i> , 2005 , 28, 169-70 | 13.3 | 66 |
| 66 | Lost and found: bespoke memory testing for Alzheimer's disease and semantic dementia. <i>Journal of Alzheimer's Disease</i> , 2010 , 21, 1347-65 | 4.3 | 65 |
| 65 | Novelty and anxiolytic drugs dissociate two components of hippocampal theta in behaving rats. <i>Journal of Neuroscience</i> , 2013 , 33, 8650-67 | 6.6 | 59 |

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| 64 | Boundary coding in the rat subiculum. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20120514 | 5.8 | 53 |
| 63 | Opposing effects of negative emotion on amygdalar and hippocampal memory for items and associations. <i>Social Cognitive and Affective Neuroscience</i> , 2016 , 11, 981-90 | 4 | 52 |
| 62 | Theta phase precession of grid and place cell firing in open environments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20120532 | 5.8 | 52 |
| 61 | Frontal eye fields involved in shifting frame of reference within working memory for scenes. <i>Neuropsychologia</i> , 2008 , 46, 399-408 | 3.2 | 52 |
| 60 | Human hippocampal theta power indicates movement onset and distance travelled. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12297-12302 | 11.5 | 51 |
| 59 | Hippocampal Volume Reduction in Humans Predicts Impaired Allocentric Spatial Memory in Virtual-Reality Navigation. <i>Journal of Neuroscience</i> , 2015 , 35, 14123-31 | 6.6 | 51 |
| 58 | Forward and backward inference in spatial cognition. <i>PLoS Computational Biology</i> , 2013 , 9, e1003383 | 5 | 51 |
| 57 | Pattern completion in multielement event engrams. <i>Current Biology</i> , 2014 , 24, 988-92 | 6.3 | 50 |
| 56 | The associative structure of memory for multi-element events. <i>Journal of Experimental Psychology: General</i> , 2013 , 142, 1370-83 | 4.7 | 50 |
| 55 | Neural bases of autobiographical support for episodic recollection of faces. <i>Hippocampus</i> , 2009 , 19, 718-30 | 3.9 | 48 |
| 54 | Environmental novelty elicits a later theta phase of firing in CA1 but not subiculum. <i>Hippocampus</i> , 2010 , 20, 229-34 | 3.5 | 45 |
| 53 | Using a Mobile Robot to Test a Model of the Rat Hippocampus. <i>Connection Science</i> , 1998 , 10, 291-300 | 2.8 | 45 |
| 52 | Acute effects of alcohol on intrusive memory development and viewpoint dependence in spatial memory support a dual representation model. <i>Biological Psychiatry</i> , 2010 , 68, 280-6 | 7.9 | 44 |
| 51 | The hippocampus supports recognition memory for familiar words but not unfamiliar faces. <i>Current Biology</i> , 2008 , 18, 1932-6 | 6.3 | 44 |
| 50 | Impaired memory for scenes but not faces in developmental hippocampal amnesia: a case study. <i>Neuropsychologia</i> , 2008 , 46, 1050-9 | 3.2 | 44 |
| 49 | Environmental Anchoring of Head Direction in a Computational Model of Retrosplenial Cortex. <i>Journal of Neuroscience</i> , 2016 , 36, 11601-11618 | 6.6 | 43 |
| 48 | The Neural Representation of Prospective Choice during Spatial Planning and Decisions. <i>PLoS Biology</i> , 2017 , 15, e1002588 | 9.7 | 43 |
| 47 | Children reorient using the left/right sense of coloured landmarks at 18-24 months. <i>Cognition</i> , 2008 , 106, 519-27 | 3.5 | 40 |

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|----|---|------|----|
| 46 | Anterior prefrontal involvement in episodic retrieval reflects contextual interference. <i>NeuroImage</i> , 2005 , 28, 256-67 | 7.9 | 40 |
| 45 | Negative emotional content disrupts the coherence of episodic memories. <i>Journal of Experimental Psychology: General</i> , 2018 , 147, 243-256 | 4.7 | 40 |
| 44 | Human hippocampal processing of environmental novelty during spatial navigation. <i>Hippocampus</i> , 2014 , 24, 740-50 | 3.5 | 37 |
| 43 | Learning in a geometric model of place cell firing. <i>Hippocampus</i> , 2007 , 17, 786-800 | 3.5 | 37 |
| 42 | A constructive algorithm that converges for real-valued input patterns. <i>International Journal of Neural Systems</i> , 1994 , 5, 59-66 | 6.2 | 37 |
| 41 | Examining the role of the temporo-parietal network in memory, imagery, and viewpoint transformations. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 709 | 3.3 | 35 |
| 40 | The 2014 Nobel Prize in Physiology or Medicine: a spatial model for cognitive neuroscience. <i>Neuron</i> , 2014 , 84, 1120-5 | 13.9 | 34 |
| 39 | Neuronal vector coding in spatial cognition. <i>Nature Reviews Neuroscience</i> , 2020 , 21, 453-470 | 13.5 | 34 |
| 38 | Differential effects of negative emotion on memory for items and associations, and their relationship to intrusive imagery. <i>Current Opinion in Behavioral Sciences</i> , 2017 , 17, 124-132 | 4 | 33 |
| 37 | Models of grid cells and theta oscillations. <i>Nature</i> , 2012 , 488, E1-2; discussion E2-3 | 50.4 | 32 |
| 36 | Characterizing multiple independent behavioral correlates of cell firing in freely moving animals. <i>Hippocampus</i> , 2005 , 15, 149-53 | 3.5 | 31 |
| 35 | Contextualisation in the revised dual representation theory of PTSD: a response to Pearson and colleagues. <i>Journal of Behavior Therapy and Experimental Psychiatry</i> , 2014 , 45, 217-9 | 2.6 | 29 |
| 34 | What can the hippocampal representation of environmental geometry tell us about Hebbian learning?. <i>Biological Cybernetics</i> , 2002 , 87, 356-72 | 2.8 | 29 |
| 33 | How environment and self-motion combine in neural representations of space. <i>Journal of Physiology</i> , 2016 , 594, 6535-6546 | 3.9 | 28 |
| 32 | Slave to the rhythm: Experimental tests of a model for verbal short-term memory and long-term sequence learning. <i>Journal of Memory and Language</i> , 2009 , 61, 97-111 | 3.8 | 28 |
| 31 | Spatial cell firing during virtual navigation of open arenas by head-restrained mice. <i>ELife</i> , 2018 , 7, | 8.9 | 28 |
| 30 | Neural representations in human spatial memory. <i>Trends in Cognitive Sciences</i> , 2003 , 7, 517-9 | 14 | 26 |
| 29 | How vision and self-motion combine or compete during path reproduction changes with age. <i>Scientific Reports</i> , 2016 , 6, 29163 | 4.9 | 26 |

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|----|--|------|----|
| 28 | Medial Prefrontal Cortex: Adding Value to Imagined Scenarios. <i>Journal of Cognitive Neuroscience</i> , 2015 , 27, 1957-67 | 3.1 | 23 |
| 27 | Medial Prefrontal-Medial Temporal Theta Phase Coupling in Dynamic Spatial Imagery. <i>Journal of Cognitive Neuroscience</i> , 2017 , 29, 507-519 | 3.1 | 22 |
| 26 | Hippocampal Attractor Dynamics Predict Memory-Based Decision Making. <i>Current Biology</i> , 2016 , 26, 1750-1757 | 6.3 | 21 |
| 25 | Modulating medial septal cholinergic activity reduces medial entorhinal theta frequency without affecting speed or grid coding. <i>Scientific Reports</i> , 2017 , 7, 14573 | 4.9 | 21 |
| 24 | The 4 Mountains Test: A Short Test of Spatial Memory with High Sensitivity for the Diagnosis of Pre-dementia Alzheimer's Disease. <i>Journal of Visualized Experiments</i> , 2016 , | 1.6 | 20 |
| 23 | Optimal configurations of spatial scale for grid cell firing under noise and uncertainty. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130290 | 5.8 | 20 |
| 22 | Ventromedial prefrontal cortex, adding value to autobiographical memories. <i>Scientific Reports</i> , 2016 , 6, 28630 | 4.9 | 18 |
| 21 | The hippocampus and spatial constraints on mental imagery. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 142 | 3.3 | 16 |
| 20 | Huntington's disease patients display progressive deficits in hippocampal-dependent cognition during a task of spatial memory. <i>Cortex</i> , 2019 , 119, 417-427 | 3.8 | 12 |
| 19 | Controlling phase noise in oscillatory interference models of grid cell firing. <i>Journal of Neuroscience</i> , 2014 , 34, 6224-32 | 6.6 | 12 |
| 18 | Effects of pre-experimental knowledge on recognition memory. <i>Learning and Memory</i> , 2011 , 18, 11-4 | 2.8 | 12 |
| 17 | A general model of hippocampal and dorsal striatal learning and decision making. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 31427-31437 | 11.5 | 12 |
| 16 | Hippocampal theta frequency, novelty, and behavior. <i>Hippocampus</i> , 2009 , 19, 409-410 | 3.5 | 11 |
| 15 | Extinction learning is slower, weaker and less context specific after alcohol. <i>Neurobiology of Learning and Memory</i> , 2015 , 125, 55-62 | 3.1 | 9 |
| 14 | To be a Grid Cell: Shuffling procedures for determining Gridness | | 9 |
| 13 | From cells to systems: grids and boundaries in spatial memory. <i>Neuroscientist</i> , 2012 , 18, 556-66 | 7.6 | 8 |
| 12 | Temporal Neuronal Oscillations can Produce Spatial Phase Codes 2011 , 59-69 | | 5 |
| 11 | The Function of Oscillations in the Hippocampal Formation 2014 , 303-350 | | 4 |

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|----|--|------|---|
| 10 | Neuroimaging correlates of false memory in 'Alzheimer's disease: A preliminary systematic review. <i>Psychiatry Research - Neuroimaging</i> , 2020 , 296, 111021 | 2.9 | 4 |
| 9 | The virtues of youth and maturity (in dentate granule cells). <i>Cell</i> , 2012 , 149, 18-20 | 56.2 | 3 |
| 8 | Introduction to What are the parietal and hippocampal contributions to spatial cognition?, the proceedings of a Discussion held at The Royal Society. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997 , 352, 1397-1399 | 5.8 | 3 |
| 7 | A model of head direction and landmark coding in complex environments. <i>PLoS Computational Biology</i> , 2021 , 17, e1009434 | 5 | 3 |
| 6 | Neural network models of list learning | | 2 |
| 5 | How cumulative error in grid cell firing is literally bounded by the environment. <i>Neuron</i> , 2015 , 86, 607-9 | 13.9 | 1 |
| 4 | Are new place representations independent of theta and path integration?. <i>Neuron</i> , 2014 , 82, 721-2 | 13.9 | 1 |
| 3 | Environmental anchoring of grid-like representations minimizes spatial uncertainty during navigation | | 1 |
| 2 | Location-dependent threat and associated neural abnormalities in clinical anxiety. <i>Communications Biology</i> , 2021 , 4, 1263 | 6.7 | |
| 1 | Disrupting the Grid Cells' Need for Speed. <i>Neuron</i> , 2016 , 91, 502-3 | 13.9 | |