Michael A Yassa

List of Publications by Year
in descending order

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108 papers	8,785 citations	81900 39 h-index	49909 87 g-index
129 all docs	129 docs citations	129 times ranked	8831 citing authors

#	Article	IF	Citations
1	Pattern separation in the hippocampus. Trends in Neurosciences, 2011, 34, 515-525.	8.6	1,122
2	Reduction of Hippocampal Hyperactivity Improves Cognition in Amnestic Mild Cognitive Impairment. Neuron, 2012, 74, 467-474.	8.1	736
3	Pattern separation deficits associated with increased hippocampal CA3 and dentate gyrus activity in nondemented older adults. Hippocampus, 2011, 21, 968-979.	1.9	444
4	High-resolution structural and functional MRI of hippocampal CA3 and dentate gyrus in patients with amnestic Mild Cognitive Impairment. NeuroImage, 2010, 51, 1242-1252.	4.2	436
5	A task to assess behavioral pattern separation (BPS) in humans: Data from healthy aging and mild cognitive impairment. Neuropsychologia, 2013, 51, 2442-2449.	1.6	414
6	Age-related memory deficits linked to circuit-specific disruptions in the hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8873-8878.	7.1	366
7	Distinct pattern separation related transfer functions in human CA3/dentate and CA1 revealed using high-resolution fMRI and variable mnemonic similarity. Learning and Memory, 2011, 18, 15-18.	1.3	294
8	Quantitative comparison of 21 protocols for labeling hippocampal subfields and parahippocampal subregions in in vivo MRI: Towards a harmonized segmentation protocol. NeuroImage, 2015, 111, 526-541.	4.2	284
9	A quantitative evaluation of cross-participant registration techniques for MRI studies of the medial temporal lobeâ˜†. NeuroImage, 2009, 44, 319-327.	4.2	225
10	Ultrahigh-resolution microstructural diffusion tensor imaging reveals perforant path degradation in aged humans in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12687-12691.	7.1	212
11	Object and spatial mnemonic interference differentially engage lateral and medial entorhinal cortex in humans. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4264-73.	7.1	182
12	Post-study caffeine administration enhances memory consolidation in humans. Nature Neuroscience, 2014, 17, 201-203.	14.8	170
13	Neurocognitive Aging and the Hippocampus across Species. Trends in Neurosciences, 2015, 38, 800-812.	8.6	162
14	Neuroimaging Biomarkers for Alzheimerâ€™s Disease. Molecular Neurodegeneration, 2019, 14, 21.	10.8	161
15	Functional Imbalance of Anterolateral Entorhinal Cortex and Hippocampal Dentate/CA3ÂUnderlies Age-Related Object Pattern Separation Deficits. Neuron, 2018, 97, 1187-1198.e4.	8.1	156
16	Individual differences in spatial pattern separation performance associated with healthy aging in humans. Learning and Memory, 2010, 17, 284-288.	1.3	155
17	Familial risk for Alzheimer's disease alters fMRI activation patterns. Brain, 2006, 129, 1229-1239.	7.6	150
18	Regional white matter change in pre-symptomatic Huntington's disease: A diffusion tensor imaging study. Psychiatry Research - Neuroimaging, 2005, 140, 55-62.	1.8	135

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19	Integrating new findings and examining clinical applications of pattern separation. Nature Neuroscience, 2018, 21, 163-173.	14.8	135
20	Functional MRI of the amygdala and bed nucleus of the stria terminalis during conditions of uncertainty in generalized anxiety disorder. Journal of Psychiatric Research, 2012, 46, 1045-1052.	3.1	131
21	A harmonized segmentation protocol for hippocampal and parahippocampal subregions: Why do we need one and what are the key goals?. Hippocampus, 2017, 27, 3-11.	1.9	130
22	Amygdala-hippocampal dynamics during salient information processing. Nature Communications, 2017, 8, 14413.	12.8	128
23	Rapid stimulation of human dentate gyrus function with acute mild exercise. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10487-10492.	7.1	118
24	Precise temporal memories are supported by the lateral entorhinal cortex in humans. Nature Neuroscience, 2019, 22, 284-288.	14.8	117
25	Volumetric neuroimage analysis extensions for the MIPAV software package. Journal of Neuroscience Methods, 2007, 165, 111-121.	2.5	114
26	Norepinephrine-mediated emotional arousal facilitates subsequent pattern separation. Neurobiology of Learning and Memory, 2012, 97, 465-469.	1.9	91
27	Perturbations of neural circuitry in aging, mild cognitive impairment, and Alzheimer's disease. Ageing Research Reviews, 2013, 12, 823-831.	10.9	89
28	Pattern separation of emotional information in hippocampal dentate and CA3. Hippocampus, 2014, 24, 1146-1155.	1.9	86
29	Greater loss of object than spatial mnemonic discrimination in aged adults. Hippocampus, 2016, 26, 417-422.	1.9	84
30	The ANTsX ecosystem for quantitative biological and medical imaging. Scientific Reports, 2021, 11, 9068.	3.3	81
31	Multiplexing of Theta and Alpha Rhythms in the Amygdala-Hippocampal Circuit Supports Pattern Separation of Emotional Information. Neuron, 2019, 102, 887-898.e5.	8.1	77
32	Multiple signals of recognition memory in the medial temporal lobe. Hippocampus, 2008, 18, 945-954.	1.9	73
33	Acute moderate exercise improves mnemonic discrimination in young adults. Hippocampus, 2017, 27, 229-234.	1.9	69
34	Competitive Trace Theory: A Role for the Hippocampus in Contextual Interference during Retrieval. Frontiers in Behavioral Neuroscience, 2013, 7, 107.	2.0	65
35	Spatial discrimination deficits as a function of mnemonic interference in aged adults with and without memory impairment. Hippocampus, 2014, 24, 303-314.	1.9	65
36	Asymmetric effects of emotion on mnemonic interference. Neurobiology of Learning and Memory, 2014, 111, 41-48.	1.9	65

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37	Abnormal Object Recall and Anterior Cingulate Overactivation Correlate with Formal Thought Disorder in Schizophrenia. Biological Psychiatry, 2006, 59, 452-459.	1.3	64
38	The attribution of value-based attentional priority in individuals with depressive symptoms. Cognitive, Affective and Behavioral Neuroscience, 2014, 14, 1221-1227.	2.0	57
39	Assessing recollection and familiarity of similar lures in a behavioral pattern separation task. Hippocampus, 2013, 23, 287-294.	1.9	52
40	Hippocampal CA1 gamma power predicts the precision of spatial memory judgments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10148-10153.	7.1	52
41	Perceptual versus conceptual interference and pattern separation of verbal stimuli in young and older adults. Hippocampus, 2013, 23, 425-430.	1.9	41
42	Disruption of amygdalaâ€“entorhinalâ€“hippocampal network in lateâ€life depression. Hippocampus, 2017, 27, 464-476.	1.9	41
43	Pattern Separation and Source Memory Engage Distinct Hippocampal and Neocortical Regions during Retrieval. Journal of Neuroscience, 2020, 40, 843-851.	3.6	37
44	Effect of handedness on fMRI activation in the medial temporal lobe during an auditory verbal memory task. Human Brain Mapping, 2009, 30, 1271-1278.	3.6	36
45	Aerobic fitness associates with mnemonic discrimination as a mediator of physical activity effects: evidence for memory flexibility in young adults. Scientific Reports, 2017, 7, 5140.	3.3	36
46	APOE Îµ4 status in healthy older African Americans is associated with deficits in pattern separation and hippocampal hyperactivation. Neurobiology of Aging, 2018, 69, 221-229.	3.1	36
47	Repetition strengthens target recognition but impairs similar lure discrimination: evidence for trace competition. Learning and Memory, 2014, 21, 342-346.	1.3	34
48	Alzheimerâ€Related Cerebrovascular Disease in Down Syndrome. Annals of Neurology, 2020, 88, 1165-1177.	5.3	34
49	Age-related individual variability in memory performance is associated with amygdala-hippocampal circuit function and emotional pattern separation. Neurobiology of Aging, 2017, 49, 9-19.	3.1	33
50	Dissociated Signals in Human Dentate Gyrus and CA3 Predict Different Facets of Recognition Memory. Journal of Neuroscience, 2014, 34, 13301-13313.	3.6	32
51	Effects of aging on mnemonic discrimination of emotional information.. Behavioral Neuroscience, 2014, 128, 539-547.	1.2	31
52	Longitudinal Mapping of Cortical Thickness Measurements: An Alzheimerâ€™s Disease Neuroimaging Initiative-Based Evaluation Study. Journal of Alzheimer's Disease, 2019, 71, 165-183.	2.6	31
53	Aberrant Maturation of the Uncinate Fasciculus Follows Exposure to Unpredictable Patterns of Maternal Signals. Journal of Neuroscience, 2021, 41, 1242-1250.	3.6	31
54	Temporal discrimination deficits as a function of lag interference in older adults. Hippocampus, 2014, 24, 1189-1196.	1.9	30

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55	Altered fMRI activation during mental rotation in those at genetic risk for Alzheimer disease. Neurology, 2008, 70, 1898-1904.	1.1	28
56	Ground zero in Alzheimer's disease. Nature Neuroscience, 2014, 17, 146-147.	14.8	28
57	Bridging Neurocognitive Aging and Disease Modification: Targeting Functional Mechanisms of Memory Impairment. Current Alzheimer Research, 2010, 7, 197-199.	1.4	26
58	Massive memory revisited: Limitations on storage capacity for object details in visual long-term memory. Learning and Memory, 2015, 22, 563-566.	1.3	25
59	Mnemonic Discrimination Deficits in First-Episode Psychosis and a Ketamine Model Suggests Dentate Gyrus Pathology Linked to N-Methyl-D-Aspartate Receptor Hypofunction. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2018, 3, 231-238.	1.5	25
60	Whatâ€™s in a context? Cautions, limitations, and potential paths forward. Neuroscience Letters, 2018, 680, 77-87.	2.1	23
61	ABCA7 risk variant in healthy older African Americans is associated with a functionally isolated entorhinal cortex mediating deficient generalization of prior discrimination training. Hippocampus, 2019, 29, 527-538.	1.9	21
62	Associations between pattern separation and hippocampal subfield structure and function vary along the lifespan: A 7â€‰T imaging study. Scientific Reports, 2020, 10, 7572.	3.3	21
63	Repetition reveals ups and downs of hippocampal, thalamic, and neocortical engagement during mnemonic decisions. Hippocampus, 2017, 27, 169-183.	1.9	20
64	Benefit of human moderate running boosting mood and executive function coinciding with bilateral prefrontal activation. Scientific Reports, 2021, 11, 22657.	3.3	20
65	Post-encoding stress enhances mnemonic discrimination of negative stimuli. Learning and Memory, 2018, 25, 611-619.	1.3	19
66	Monthly At-Home Computerized Cognitive Testing to Detect Diminished Practice Effects in Preclinical Alzheimer's Disease. Frontiers in Aging Neuroscience, 2021, 13, 800126.	3.4	19
67	Early life adversity in male mice sculpts reward circuits. Neurobiology of Stress, 2021, 15, 100409.	4.0	18
68	Selective vulnerabilities and biomarkers in neurocognitive aging. F1000Research, 2017, 6, 491.	1.6	17
69	Anterolateral entorhinal cortex thickness as a new biomarker for early detection of Alzheimer's disease. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12068.	2.4	16
70	Gray matter in amnestic mild cognitive impairment: voxel-based morphometry. NeuroReport, 2010, 21, 259-263.	1.2	15
71	Brain Rhythms: Higher-Frequency Theta Oscillations Make Sense in Moving Humans. Current Biology, 2018, 28, R70-R72.	3.9	14
72	Mnemonic discrimination of similar face stimuli and a potential mechanism for the â€œother raceâ€• effect.. Behavioral Neuroscience, 2015, 129, 666-672.	1.2	12

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73	A Memory Computational Basis for the Other-Race Effect. Scientific Reports, 2019, 9, 19399.	3.3	11
74	Functional Connectivity of the Human Paraventricular Thalamic Nucleus: Insights From High Field Functional MRI. Frontiers in Integrative Neuroscience, 2021, 15, 662293.	2.1	11
75	Pattern Separation in the Human Hippocampus: Response to Quiroga. Trends in Cognitive Sciences, 2021, 25, 423-424.	7.8	11
76	Positivity effect specific to older adults with subclinical memory impairment. Learning and Memory, 2016, 23, 415-421.	1.3	10
77	A randomized trial of an NMDA receptor antagonist for reversing corticosteroid effects on the human hippocampus. Neuropsychopharmacology, 2019, 44, 2263-2267.	5.4	10
78	Increased dynamic flexibility in the medial temporal lobe network following an exercise intervention mediates generalization of prior learning. Neurobiology of Learning and Memory, 2021, 177, 107340.	1.9	10
79	Rotation Invariant Features for HARDI. Lecture Notes in Computer Science, 2013, 23, 705-717.	1.3	10
80	The Relationship Between Cumulative Exogenous Corticosteroid Exposure and Volumes of Hippocampal Subfields and Surrounding Structures. Journal of Clinical Psychopharmacology, 2019, 39, 653-657.	1.4	9
81	Integrity of the uncinate fasciculus is associated with emotional pattern separation-related fMRI signals in the hippocampal dentate and CA3. Neurobiology of Learning and Memory, 2021, 177, 107359.	1.9	9
82	Brain activation in offspring of AD cases corresponds to 10q linkage. Annals of Neurology, 2005, 58, 142-146.	5.3	7
83	Intelligence and Medial Temporal Lobe Function in Older Adults: A Functional MR Imagingâ€“Based Investigation. American Journal of Neuroradiology, 2009, 30, 1477-1481.	2.4	7
84	Searching for Novel Biomarkers Using High Resolution Diffusion Tensor Imaging. Journal of Alzheimer's Disease, 2011, 26, 297-305.	2.6	7
85	Pattern separation and goal-directed behavior in the aged canine. Learning and Memory, 2017, 24, 123-131.	1.3	5
86	Reply to Gronwald et al.: Exercise intensity does indeed matter; maximal oxygen uptake is the gold-standard indicator. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11892-E11893.	7.1	5
87	A randomized, double-blind, placebo-controlled trial of lamotrigine for prescription corticosteroid effects on the human hippocampus. European Neuropsychopharmacology, 2019, 29, 376-383.	0.7	5
88	Elevated Activity of the Sympathetic Nervous System Is Related to Diminished Practice Effects in Memory: A Pilot Study. Journal of Alzheimer's Disease, 2021, 80, 1675-1685.	2.6	5
89	Instructor facilitation mediates studentsâ€™ negative perceptions of active learning instruction. PLoS ONE, 2021, 16, e0261706.	2.5	5
90	Proximal CA1 20â€“40 Hz power dynamics reflect trial-specific information processing supporting nonspatial sequence memory. ELife, 2022, 11, .	6.0	5

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91	Brain amyloid and the transition to dementia in Down syndrome. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12126.	2.4	4
92	Spatiotemporal continuity alters long-term memory representation of objects. Visual Cognition, 2013, 21, 715-718.	1.6	3
93	APOE moderates the effect of hippocampal blood flow on memory pattern separation in clinically normal older adults. Hippocampus, 2021, 31, 845-857.	1.9	3
94	Hippocampal dentate gyrus integrity revealed with ultrahigh resolution diffusion imaging predicts memory performance in older adults. Hippocampus, 2022, 32, 627-638.	1.9	3
95	Magnetic resonance imaging biomarkers for cognitive decline in Down syndrome. , 2022, , 149-172.		2
96	Formalizing the Relationship Between Early Life Adversity and Addiction Vulnerability: The Role of Memory Sampling. Biological Psychiatry, 2021, 89, S189.	1.3	1
97	Mnemonic Discrimination Deficits in First-Episode Psychosis and a Ketamine Model Suggest Dentate Gyrus Pathology Linked to NMDA Receptor Hypofunction. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 1185-1192.	1.5	1
98	Jointâ€label fusion brain atlases for dementia research in Down syndrome. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2022, 14, .	2.4	1
99	P4-322: A SUITE OF DISCRIMINATION TASKS TO BEHAVIORALLY ASSESS THE INTEGRITY OF HIPPOCAMPAL PATTERN SEPARATION AND INDIVIDUAL DIFFERENCES IN NEUROCOGNITIVE AGING. , 2014, 10, P904-P904.		0
100	ICâ€Pâ€116: Lateral Entorhinal Cortical Thinning Predicts Cognitive Decline in The ADNI Sample. Alzheimer's and Dementia, 2016, 12, P87.	0.8	0
101	P4â€207: Lateral Entorhinal Cortical Thinning Predicts Cognitive Decline in the ADNI Sample. Alzheimer's and Dementia, 2016, 12, P1104.	0.8	0
102	Anterolateral entorhinal cortical thinning as a biomarker for Alzheimerâ€™s disease in Down syndrome. Alzheimer's and Dementia, 2020, 16, e046536.	0.8	0
103	Hippocampal volume loss is associated with PET amyloid deposition in nondemented elderly individuals. Alzheimer's and Dementia, 2020, 16, e046563.	0.8	0
104	Anterolateral entorhinal cortical thinning as a biomarker for Alzheimerâ€™s disease in Down syndrome. Alzheimer's and Dementia, 2020, 16, e046689.	0.8	0
105	A Shared Mechanism for Mnemonic Precision in Visual Short-term Memory and Visual Long-term Memory. Journal of Vision, 2017, 17, 847.	0.3	0
106	Functional Imbalance of Anterolateral Entorhinal Cortex and Hippocampal Dentate/CA3 Underlies Age-Related Object Pattern Separation Deficits. SSRN Electronic Journal, 0, , .	0.4	0
107	Decoding item-specific information in visual short-term memory from the hippocampal DG/CA3 subfield using high-resolution fMRI. Journal of Vision, 2018, 18, 370.	0.3	0
108	Latent anxiety in clinical depression is associated with worse recognition of emotional stimuli. Journal of Affective Disorders, 2022, 301, 368-368.	4.1	0