

# Paul M Bays

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

6,158  
citations

147566

31  
h-index

128067

60  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Shifts of Limited Working Memory Resources in Human Vision. <i>Science</i> , 2008, 321, 851-854.	6.0	929
2	Changing concepts of working memory. <i>Nature Neuroscience</i> , 2014, 17, 347-356.	7.1	799
3	The precision of visual working memory is set by allocation of a shared resource. <i>Journal of Vision</i> , 2009, 9, 7-7.	0.1	662
4	Computational principles of sensorimotor control that minimize uncertainty and variability. <i>Journal of Physiology</i> , 2007, 578, 387-396.	1.3	284
5	Dynamic Updating of Working Memory Resources for Visual Objects. <i>Journal of Neuroscience</i> , 2011, 31, 8502-8511.	1.7	229
6	Storage and binding of object features in visual working memory. <i>Neuropsychologia</i> , 2011, 49, 1622-1631.	0.7	195
7	Perception of the Consequences of Self-Action Is Temporally Tuned and Event Driven. <i>Current Biology</i> , 2005, 15, 1125-1128.	1.8	193
8	Rapid forgetting prevented by retrospective attention cues.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2013, 39, 1224-1231.	0.7	188
9	Noise in Neural Populations Accounts for Errors in Working Memory. <i>Journal of Neuroscience</i> , 2014, 34, 3632-3645.	1.7	182
10	Distinct neural mechanisms underlie the success, precision, and vividness of episodic memory. <i>ELife</i> , 2016, 5, .	2.8	182
11	Temporal dynamics of encoding, storage, and reallocation of visual working memory. <i>Journal of Vision</i> , 2011, 11, 6-6.	0.1	178
12	Attenuation of Self-Generated Tactile Sensations Is Predictive, not Postdictive. <i>PLoS Biology</i> , 2006, 4, e28.	2.6	170
13	Neural Architecture for Feature Binding in Visual Working Memory. <i>Journal of Neuroscience</i> , 2017, 37, 3913-3925.	1.7	158
14	Functional Magnetic Resonance Imaging of Impaired Sensory Prediction in Schizophrenia. <i>JAMA Psychiatry</i> , 2014, 71, 28.	6.0	138
15	Spikes not slots: noise in neural populations limits working memory. <i>Trends in Cognitive Sciences</i> , 2015, 19, 431-438.	4.0	135
16	Age-related decline of precision and binding in visual working memory.. <i>Psychology and Aging</i> , 2013, 28, 729-743.	1.4	99
17	Reduced Hippocampal Functional Connectivity During Episodic Memory Retrieval in Autism. <i>Cerebral Cortex</i> , 2017, 27, 888-902.	1.6	90
18	No fixed item limit in visuospatial working memory. <i>Cortex</i> , 2016, 83, 181-193.	1.1	78

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19	Integration of Goal- and Stimulus-Related Visual Signals Revealed by Damage to Human Parietal Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 5968-5978.	1.7	76
20	Spatial remapping of the visual world across saccades. <i>NeuroReport</i> , 2007, 18, 1207-1213.	0.6	72
21	Development of visual working memory precision in childhood. <i>Developmental Science</i> , 2012, 15, 528-539.	1.3	70
22	Evaluating and excluding swap errors in analogue tests of working memory. <i>Scientific Reports</i> , 2016, 6, 19203.	1.6	66
23	Evidence for Optimal Integration of Visual Feature Representations across Saccades. <i>Journal of Neuroscience</i> , 2015, 35, 10146-10153.	1.7	59
24	New perspectives on binding in visual working memory. <i>British Journal of Psychology</i> , 2019, 110, 207-244.	1.2	54
25	Precision of working memory for visual motion sequences and transparent motion surfaces. <i>Journal of Vision</i> , 2011, 11, 2-2.	0.1	51
26	Obligatory encoding of task-irrelevant features depletes working memory resources. <i>Journal of Vision</i> , 2013, 13, 21-21.	0.1	47
27	Working memory retrieval as a decision process. <i>Journal of Vision</i> , 2014, 14, 2-2.	0.1	47
28	Drift in Neural Population Activity Causes Working Memory to Deteriorate Over Time. <i>Journal of Neuroscience</i> , 2018, 38, 4859-4869.	1.7	47
29	A Probabilistic Palimpsest Model of Visual Short-term Memory. <i>PLoS Computational Biology</i> , 2015, 11, e1004003.	1.5	46
30	Stochastic sampling provides a unifying account of visual working memory limits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20959-20968.	3.3	44
31	Active inhibition and memory promote exploration and search of natural scenes. <i>Journal of Vision</i> , 2012, 12, 8-8.	0.1	43
32	Efficient Coding in Visual Working Memory Accounts for Stimulus-Specific Variations in Recall. <i>Journal of Neuroscience</i> , 2018, 38, 7132-7142.	1.7	41
33	Interference between velocity-dependent and position-dependent force-fields indicates that tasks depending on different kinematic parameters compete for motor working memory. <i>Experimental Brain Research</i> , 2005, 163, 400-405.	0.7	38
34	Restoration of fMRI Decodability Does Not Imply Latent Working Memory States. <i>Journal of Cognitive Neuroscience</i> , 2017, 29, 1977-1994.	1.1	38
35	A neural model of retrospective attention in visual working memory. <i>Cognitive Psychology</i> , 2018, 100, 43-52.	0.9	34
36	EyeSearch: A web-based therapy that improves visual search in hemianopia. <i>Annals of Clinical and Translational Neurology</i> , 2015, 2, 74-78.	1.7	28

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37	The ipsilesional attention bias in right-hemisphere stroke patients as revealed by a realistic visual search task: Neuroanatomical correlates and functional relevance.. <i>Neuropsychology</i> , 2018, 32, 850-865.	1.0	28
38	Visual Working Memory Is Independent of the Cortical Spacing Between Memoranda. <i>Journal of Neuroscience</i> , 2018, 38, 3116-3123.	1.7	26
39	Actions and Consequences in Bimanual Interaction Are Represented in Different Coordinate Systems. <i>Journal of Neuroscience</i> , 2006, 26, 7121-7126.	1.7	25
40	Response to Comment on "Dynamic Shifts of Limited Working Memory Resources in Human Vision". <i>Science</i> , 2009, 323, 877-877.	6.0	25
41	Functions of Memory Across Saccadic Eye Movements. <i>Current Topics in Behavioral Neurosciences</i> , 2018, 41, 155-183.	0.8	24
42	Competition between movement plans increases motor variability: evidence of a shared resource for movement planning. <i>Journal of Neurophysiology</i> , 2016, 116, 1295-1303.	0.9	23
43	Reassessing the Evidence for Capacity Limits in Neural Signals Related to Working Memory. <i>Cerebral Cortex</i> , 2018, 28, 1432-1438.	1.6	21
44	Flexible updating of dynamic knowledge structures. <i>Scientific Reports</i> , 2019, 9, 2272.	1.6	20
45	Independent working memory resources for egocentric and allocentric spatial information. <i>PLoS Computational Biology</i> , 2019, 15, e1006563.	1.5	20
46	The effect of frontoparietal paired associative stimulation on decision-making and working memory. <i>Cortex</i> , 2019, 117, 266-276.	1.1	19
47	A signature of neural coding at human perceptual limits. <i>Journal of Vision</i> , 2016, 16, 4.	0.1	18
48	Theory of neural coding predicts an upper bound on estimates of memory variability.. <i>Psychological Review</i> , 2020, 127, 700-718.	2.7	14
49	Swap errors in visual working memory are fully explained by cue-feature variability. <i>Cognitive Psychology</i> , 2022, 137, 101493.	0.9	13
50	Failure of self-consistency in the discrete resource model of visual working memory. <i>Cognitive Psychology</i> , 2018, 105, 1-8.	0.9	11
51	Automatic and intentional influences on saccade landing. <i>Journal of Neurophysiology</i> , 2017, 118, 1105-1122.	0.9	10
52	Consequence of stroke for feature recall and binding in visual working memory. <i>Neurobiology of Learning and Memory</i> , 2021, 179, 107387.	1.0	9
53	Location-independent feature binding in visual working memory for sequentially presented objects. <i>Attention, Perception, and Psychophysics</i> , 2021, 83, 2377-2393.	0.7	9
54	Internal but not external noise frees working memory resources. <i>PLoS Computational Biology</i> , 2018, 14, e1006488.	1.5	7

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55	Limited memory for ensemble statistics in visual change detection. <i>Cognition</i> , 2021, 214, 104763.	1.1	6
56	Role of time in binding features in visual working memory.. <i>Psychological Review</i> , 2023, 130, 137-154.	2.7	6
57	Recall of facial expressions and simple orientations reveals competition for resources at multiple levels of the visual hierarchy. <i>Journal of Vision</i> , 2019, 19, 8.	0.1	5
58	Transsaccadic integration relies on a limited memory resource. <i>Journal of Vision</i> , 2021, 21, 24.	0.1	4
59	Fidelity of the representation of value in decision-making. <i>PLoS Computational Biology</i> , 2017, 13, e1005405.	1.5	4
60	Drift, not decay, in neural population activity causes working memory to deteriorate over time. <i>Journal of Vision</i> , 2017, 17, 1280.	0.1	1
61	Efficient coding in visual working memory accounts for stimulus-specific variations in orientation recall. <i>Journal of Vision</i> , 2018, 18, 692.	0.1	1
62	Theory of neural coding predicts an upper bound on estimates of memory variability. <i>Journal of Vision</i> , 2019, 19, 203b.	0.1	1
63	Mechanisms of feature binding in visual working memory are stable over long delays. <i>Journal of Vision</i> , 2021, 21, 7.	0.1	1
64	Transsaccadic integration operates independently in different feature dimensions. <i>Journal of Vision</i> , 2021, 21, 7.	0.1	0
65	Neural architecture for binding in visual working memory. <i>Journal of Vision</i> , 2016, 16, 1431.	0.1	0
66	Dissociable effects of stimulus capture, global effect and task intention in saccade targeting. <i>Journal of Vision</i> , 2017, 17, 903.	0.1	0
67	Optimal change detection without ensemble statistics. <i>Journal of Vision</i> , 2018, 18, 190.	0.1	0
68	Working memory resources can be efficiently deallocated from items that become obsolete. <i>Journal of Vision</i> , 2019, 19, 77c.	0.1	0