

# Edward Awh

## List of Publications by Citations

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118  
papers

12,471  
citations

46  
h-index

111  
g-index

131  
ext. papers

13,947  
ext. citations

5.6  
avg, IF

6.6  
L-index

#	Paper	IF	Citations
118	Spatial working memory in humans as revealed by PET. <i>Nature</i> , <b>1993</b> , 363, 623-5	50.4	1020
117	Overlapping mechanisms of attention and spatial working memory. <i>Trends in Cognitive Sciences</i> , <b>2001</b> , 5, 119-126	14	892
116	Top-down versus bottom-up attentional control: a failed theoretical dichotomy. <i>Trends in Cognitive Sciences</i> , <b>2012</b> , 16, 437-43	14	865
115	Dissociation of Storage and Rehearsal in Verbal Working Memory: Evidence From Positron Emission Tomography. <i>Psychological Science</i> , <b>1996</b> , 7, 25-31	7.9	693
114	Conflict adaptation effects in the absence of executive control. <i>Nature Neuroscience</i> , <b>2003</b> , 6, 450-2	25.5	585
113	Verbal Working Memory Load Affects Regional Brain Activation as Measured by PET. <i>Journal of Cognitive Neuroscience</i> , <b>1997</b> , 9, 462-75	3.1	556
112	Interactions between attention and working memory. <i>Neuroscience</i> , <b>2006</b> , 139, 201-8	3.9	546
111	The role of parietal cortex in verbal working memory. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 5026-34	6.6	518
110	Stimulus-specific delay activity in human primary visual cortex. <i>Psychological Science</i> , <b>2009</b> , 20, 207-14	7.9	516
109	Visual working memory represents a fixed number of items regardless of complexity. <i>Psychological Science</i> , <b>2007</b> , 18, 622-8	7.9	466
108	Spatial versus Object Working Memory: PET Investigations. <i>Journal of Cognitive Neuroscience</i> , <b>1995</b> , 7, 337-56	3.1	431
107	Rehearsal in spatial working memory.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>1998</b> , 24, 780-790	2.6	302
106	Working memory and fluid intelligence: capacity, attention control, and secondary memory retrieval. <i>Cognitive Psychology</i> , <b>2014</b> , 71, 1-26	3.1	289
105	Quantity, not quality: the relationship between fluid intelligence and working memory capacity. <i>Psychonomic Bulletin and Review</i> , <b>2010</b> , 17, 673-9	4.1	266
104	Visual and oculomotor selection: links, causes and implications for spatial attention. <i>Trends in Cognitive Sciences</i> , <b>2006</b> , 10, 124-30	14	242
103	PET evidence for an amodal verbal working memory system. <i>NeuroImage</i> , <b>1996</b> , 3, 79-88	7.9	221
102	Evidence for split attentional foci.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2000</b> , 26, 834-846	2.6	206

101	The role of spatial selective attention in working memory for locations: evidence from event-related potentials. <i>Journal of Cognitive Neuroscience</i> , <b>2000</b> , 12, 840-7	3.1	199
100	Discrete capacity limits in visual working memory. <i>Current Opinion in Neurobiology</i> , <b>2010</b> , 20, 177-82	7.6	188
99	Factorial comparison of working memory models. <i>Psychological Review</i> , <b>2014</b> , 121, 124-49	6.3	164
98	Rehearsal in Spatial Working Memory: Evidence From Neuroimaging. <i>Psychological Science</i> , <b>1999</b> , 10, 433-437	7.9	154
97	The contralateral delay activity as a neural measure of visual working memory. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2016</b> , 62, 100-8	9	150
96	Spatially global representations in human primary visual cortex during working memory maintenance. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 15258-65	6.6	140
95	The where and how of attention-based rehearsal in spatial working memory. <i>Cognitive Brain Research</i> , <b>2004</b> , 20, 194-205		134
94	Preparatory activity in visual cortex indexes distractor suppression during covert spatial orienting. <i>Journal of Neurophysiology</i> , <b>2004</b> , 92, 3538-45	3.2	130
93	Human rehearsal processes and the frontal lobes: PET evidence. <i>Annals of the New York Academy of Sciences</i> , <b>1995</b> , 769, 97-117	6.5	130
92	Precision in visual working memory reaches a stable plateau when individual item limits are exceeded. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 1128-38	6.6	129
91	A neural measure of precision in visual working memory. <i>Journal of Cognitive Neuroscience</i> , <b>2013</b> , 25, 754-61	3.1	121
90	How to Exploit Diversity for Scientific Gain: Using Individual Differences to Constrain Cognitive Theory. <i>Current Directions in Psychological Science</i> , <b>2008</b> , 17, 171-176	6.5	116
89	The anterior cingulate cortex lends a hand in response selection. <i>Nature Neuroscience</i> , <b>1999</b> , 2, 853-4	25.5	116
88	Benchmarks for models of short-term and working memory. <i>Psychological Bulletin</i> , <b>2018</b> , 144, 885-958	19.1	110
87	The topography of alpha-band activity tracks the content of spatial working memory. <i>Journal of Neurophysiology</i> , <b>2016</b> , 115, 168-77	3.2	110
86	Alpha-Band Oscillations Enable Spatially and Temporally Resolved Tracking of Covert Spatial Attention. <i>Psychological Science</i> , <b>2017</b> , 28, 929-941	7.9	102
85	The bouncer in the brain. <i>Nature Neuroscience</i> , <b>2008</b> , 11, 5-6	25.5	94
84	Perceptual expertise enhances the resolution but not the number of representations in working memory. <i>Psychonomic Bulletin and Review</i> , <b>2008</b> , 15, 215-22	4.1	78

83	The elusive link between conflict and conflict adaptation. <i>Psychological Research</i> , <b>2009</b> , 73, 794-802	2.5	74
82	Neural measures reveal a fixed item limit in subitizing. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 7169-77	6.6	71
81	Clear evidence for item limits in visual working memory. <i>Cognitive Psychology</i> , <b>2017</b> , 97, 79-97	3.1	69
80	Discrete resource allocation in visual working memory. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2009</b> , 35, 1359-67	2.6	65
79	Spatial attention, preview, and popout: which factors influence critical spacing in crowded displays?. <i>Journal of Vision</i> , <b>2007</b> , 7, 7.1-23	0.4	65
78	Top-down control over biased competition during covert spatial orienting.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2003</b> , 29, 52-63	2.6	64
77	Alpha-Band Activity Reveals Spontaneous Representations of Spatial Position in Visual Working Memory. <i>Current Biology</i> , <b>2017</b> , 27, 3216-3223.e6	6.3	63
76	The role of alpha oscillations in spatial attention: limited evidence for a suppression account. <i>Current Opinion in Psychology</i> , <b>2019</b> , 29, 34-40	6.2	63
75	Evidence against a central bottleneck during the attentional blink: multiple channels for configural and featural processing. <i>Cognitive Psychology</i> , <b>2004</b> , 48, 95-126	3.1	58
74	Working memory delay activity predicts individual differences in cognitive abilities. <i>Journal of Cognitive Neuroscience</i> , <b>2015</b> , 27, 853-65	3.1	51
73	Feature-Selective Attentional Modulations in Human Frontoparietal Cortex. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 8188-99	6.6	48
72	Statistical learning induces discrete shifts in the allocation of working memory resources. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2010</b> , 36, 1419-29	2.6	43
71	A common discrete resource for visual working memory and visual search. <i>Psychological Science</i> , <b>2013</b> , 24, 929-38	7.9	42
70	Evidence for two components of object-based selection. <i>Psychological Science</i> , <b>2001</b> , 12, 329-34	7.9	40
69	Dissecting the Neural Focus of Attention Reveals Distinct Processes for Spatial Attention and Object-Based Storage in Visual Working Memory. <i>Psychological Science</i> , <b>2019</b> , 30, 526-540	7.9	39
68	Visual crowding cannot be wholly explained by feature pooling. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2014</b> , 40, 1022-33	2.6	36
67	A bilateral advantage for storage in visual working memory. <i>Cognition</i> , <b>2010</b> , 117, 69-79	3.5	36
66	Contralateral Delay Activity Indexes Working Memory Storage, Not the Current Focus of Spatial Attention. <i>Journal of Cognitive Neuroscience</i> , <b>2018</b> , 30, 1185-1196	3.1	35

65	Top-down control over biased competition during covert spatial orienting. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2003</b> , 29, 52-63	2.6	33
64	Real-time triggering reveals concurrent lapses of attention and working memory. <i>Nature Human Behaviour</i> , <b>2019</b> , 3, 808-816	12.8	31
63	The capacity of audiovisual integration is limited to one item. <i>Psychological Science</i> , <b>2013</b> , 24, 345-51	7.9	28
62	Polymorphisms in the 5-HTTLPR gene mediate storage capacity of visual working memory. <i>Journal of Cognitive Neuroscience</i> , <b>2012</b> , 24, 1069-76	3.1	28
61	Verbal and Spatial Working Memory in Humans. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , <b>1996</b> , 35, 43-88	1.4	27
60	The plateau in mnemonic resolution across large set sizes indicates discrete resource limits in visual working memory. <i>Attention, Perception, and Psychophysics</i> , <b>2012</b> , 74, 891-910	2	25
59	Retrieval practice enhances the accessibility but not the quality of memory. <i>Psychonomic Bulletin and Review</i> , <b>2016</b> , 23, 831-41	4.1	24
58	Spatially Selective Alpha Oscillations Reveal Moment-by-Moment Trade-offs between Working Memory and Attention. <i>Journal of Cognitive Neuroscience</i> , <b>2018</b> , 30, 256-266	3.1	23
57	Induced $\beta$ rhythms track the content and quality of visual working memory representations with high temporal precision. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 7587-99	6.6	23
56	Resolving visual interference during covert spatial orienting: online attentional control through static records of prior visual experience. <i>Journal of Experimental Psychology: General</i> , <b>2005</b> , 134, 192-206	4.7	22
55	Selection and storage of perceptual groups is constrained by a discrete resource in working memory. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2013</b> , 39, 824-835	2.6	21
54	Sleep-dependent learning and practice-dependent deterioration in an orientation discrimination task. <i>Behavioral Neuroscience</i> , <b>2008</b> , 122, 267-72	2.1	18
53	Covert Spatial Attention Speeds Target Individuation. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 2717-2726	6.6	17
52	The role of long-term memory in a test of visual working memory: Proactive facilitation but no proactive interference. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , <b>2017</b> , 43, 1-22	2.2	16
51	Item-specific delay activity demonstrates concurrent storage of multiple active neural representations in working memory. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000239	9.7	15
50	Chunking in working memory via content-free labels. <i>Scientific Reports</i> , <b>2018</b> , 8, 23	4.9	15
49	Alpha-band oscillations track the retrieval of precise spatial representations from long-term memory. <i>Journal of Neurophysiology</i> , <b>2019</b> , 122, 539-551	3.2	14
48	Increased sensitivity to perceptual interference in adults with attention deficit hyperactivity disorder. <i>Journal of the International Neuropsychological Society</i> , <b>2012</b> , 18, 511-20	3.1	14

47	Attending multiple items decreases the selectivity of population responses in human primary visual cortex. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 9273-82	6.6	13
46	Perturbing Neural Representations of Working Memory with Task-irrelevant Interruption. <i>Journal of Cognitive Neuroscience</i> , <b>2020</b> , 32, 558-569	3.1	13
45	The processing locus of interference from salient singleton distractors. <i>Visual Cognition</i> , <b>2008</b> , 16, 166-181	8	
44	Controlling the Flow of Distracting Information in Working Memory. <i>Cerebral Cortex</i> , <b>2021</b> , 31, 3323-3337	3.1	8
43	The positional-specificity effect reveals a passive-trace contribution to visual short-term memory. <i>PLoS ONE</i> , <b>2013</b> , 8, e83483	3.7	7
42	"Memory compression" effects in visual working memory are contingent on explicit long-term memory. <i>Journal of Experimental Psychology: General</i> , <b>2019</b> , 148, 1373-1385	4.7	7
41	The capacity to detect synchronous audiovisual events is severely limited: Evidence from mixture modeling. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2016</b> , 42, 2115-2124	2.6	7
40	Spatially Guided Distractor Suppression during Visual Search. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 3180-3186	16	6
39	Electrophysiological evidence for failures of item individuation in crowded visual displays. <i>Journal of Cognitive Neuroscience</i> , <b>2014</b> , 26, 2298-309	3.1	5
38	Object-based biased competition during covert spatial orienting. <i>Attention, Perception, and Psychophysics</i> , <b>2019</b> , 81, 1366-1385	2	4
37	Attention: feedback focuses a wandering mind. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 327-8	25.5	4
36	The role of context in volitional control of feature-based attention. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2016</b> , 42, 213-24	2.6	4
35	Evidence for a fixed capacity limit in attending multiple locations. <i>Cognitive, Affective and Behavioral Neuroscience</i> , <b>2014</b> , 14, 62-77	3.5	4
34	Experience-dependent changes in the topography of visual crowding. <i>Journal of Vision</i> , <b>2009</b> , 9, 15.1-9	0.4	4
33	Online response-selection and the attentional blink: Multiple-processing channels. <i>Visual Cognition</i> , <b>2009</b> , 17, 531-554	1.8	4
32	Attention fluctuations impact ongoing maintenance of information in working memory. <i>Psychonomic Bulletin and Review</i> , <b>2020</b> , 27, 1269-1278	4.1	4
31	Decoding chromaticity and luminance from patterns of EEG activity. <i>Psychophysiology</i> , <b>2021</b> , 58, e13779	4.1	4
30	Multivariate analysis reveals a generalizable human electrophysiological signature of working memory load. <i>Psychophysiology</i> , <b>2020</b> , 57, e13691	4.1	3

29	Alpha-band Activity Tracks the Zoom Lens of Attention. <i>Journal of Cognitive Neuroscience</i> , <b>2020</b> , 32, 272-282	3.82	3
28	Covert Attention Increases the Gain of Stimulus-Evoked Population Codes. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 1802-1815	6.6	3
27	A Neural Measure of Item Individuation <b>2014</b> , 226-235		2
26	Alpha-band oscillations track the retrieval of precise spatial representations from long-term memory		2
25	Covert spatial attention speeds target individuation		2
24	Perceptual Grouping Reveals Distinct Roles for Sustained Slow Wave Activity and Alpha Oscillations in Working Memory. <i>Journal of Cognitive Neuroscience</i> , <b>2021</b> , 33, 1354-1364	3.1	2
23	Multivariate analysis of EEG activity indexes contingent attentional capture. <i>NeuroImage</i> , <b>2021</b> , 226, 117562	7.9	2
22	Estimating the statistical power to detect set-size effects in contralateral delay activity. <i>Psychophysiology</i> , <b>2021</b> , 58, e13791	4.1	2
21	The N2pc does not reflect a shift of covert spatial attention. <i>Journal of Vision</i> , <b>2018</b> , 18, 1220	0.4	1
20	Sustained attention and spatial attention distinctly influence long-term memory encoding		1
19	Inter-electrode correlations measured with EEG predict individual differences in cognitive ability. <i>Current Biology</i> , <b>2021</b> , 31, 4998-5008.e6	6.3	1
18	Working memory implements distinct maintenance mechanisms depending on task goals		1
17	Item-specific delay activity demonstrates concurrent storage of multiple items in working memory		1
16	Multivariate analysis of EEG activity indexes contingent and non-contingent attentional capture		1
15	Alpha-band activity reveals robust representations of spatial position during the storage of non-spatial features in working memory. <i>Journal of Vision</i> , <b>2017</b> , 17, 335	0.4	1
14	Sustained Attention and Spatial Attention Distinctly Influence Long-term Memory Encoding. <i>Journal of Cognitive Neuroscience</i> , <b>2021</b> , 33, 2132-2148	3.1	1
13	What is the source of activation for working memory?. <i>Behavioral and Brain Sciences</i> , <b>2003</b> , 26, 741-742	0.9	
12	Decoding the limits of simultaneous storage in working memory. <i>Journal of Vision</i> , <b>2018</b> , 18, 366	0.4	

11	Benchmarks provide common ground for model development: Reply to Logie (2018) and Vandierendonck (2018). <i>Psychological Bulletin</i> , <b>2018</b> , 144, 972-977	19.1
10	Real-time triggering reveals sustained attention and working memory lapse together. <i>Journal of Vision</i> , <b>2019</b> , 19, 133c	0.4
9	Examining the effects of memory compression with the contralateral delay activity. <i>Journal of Vision</i> , <b>2019</b> , 19, 204a	0.4
8	The influence of task-relevant vs. task-irrelevant interruption on dissociable sub-component processes of the focus of attention. <i>Journal of Vision</i> , <b>2019</b> , 19, 90c	0.4
7	Classification of load in visual working memory using single-trial EEG data. <i>Journal of Vision</i> , <b>2019</b> , 19, 247a	0.4
6	Characterizing the influence of spatial attention on stimulus-evoked cortical representations. <i>Journal of Vision</i> , <b>2019</b> , 19, 99c	0.4
5	Decoding chromaticity and luminance information with multivariate EEG. <i>Journal of Vision</i> , <b>2019</b> , 19, 70	0.4
4	Alpha-Band Activity Tracks Updates to the Content of Spatial Working Memory. <i>Journal of Vision</i> , <b>2017</b> , 17, 337	0.4
3	Neural representations of spatial position recalled from long-term and short-term memory diverge across the cortical hierarchy. <i>Journal of Vision</i> , <b>2017</b> , 17, 1115	0.4
2	Memory compression using statistical regularities requires explicit awareness. <i>Journal of Vision</i> , <b>2017</b> , 17, 855	0.4
1	Topography of alpha-band power tracks improvement in working memory precision with repeated encoding. <i>Journal of Vision</i> , <b>2017</b> , 17, 333	0.4