Edward Awh

List of Publications by Year
in descending order

110	15,423	41258	33814
papers	citations	49 h-index	99 g-index

131	131	131	8857
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatial working memory in humans as revealed by PET. Nature, 1993, 363, 623-625.	13.7	1,140
2	Top-down versus bottom-up attentional control: a failed theoretical dichotomy. Trends in Cognitive Sciences, 2012, 16, 437-443.	4.0	1,123
3	Overlapping mechanisms of attention and spatial working memory. Trends in Cognitive Sciences, 2001, 5, 119-126.	4.0	1,030
4	Dissociation of Storage and Rehearsal in Verbal Working Memory: Evidence From Positron Emission Tomography. Psychological Science, 1996, 7, 25-31.	1.8	777
5	Interactions between attention and working memory. Neuroscience, 2006, 139, 201-208.	1.1	661
6	Stimulus-Specific Delay Activity in Human Primary Visual Cortex. Psychological Science, 2009, 20, 207-214.	1.8	661
7	Conflict adaptation effects in the absence of executive control. Nature Neuroscience, 2003, 6, 450-452.	7.1	645
8	Verbal Working Memory Load Affects Regional Brain Activation as Measured by PET. Journal of Cognitive Neuroscience, 1997, 9, 462-475.	1.1	642
9	Visual Working Memory Represents a Fixed Number of Items Regardless of Complexity. Psychological Science, 2007, 18, 622-628.	1.8	573
10	The Role of Parietal Cortex in Verbal Working Memory. Journal of Neuroscience, 1998, 18, 5026-5034.	1.7	556
11	Spatial versus Object Working Memory: PET Investigations. Journal of Cognitive Neuroscience, 1995, 7, 337-356.	1.1	478
12	Working memory and fluid intelligence: Capacity, attention control, and secondary memory retrieval. Cognitive Psychology, 2014, 71, 1-26.	0.9	403
13	Quantity, not quality: the relationship between fluid intelligence and working memory capacity. Psychonomic Bulletin and Review, 2010, 17, 673-679.	1.4	334
14	Rehearsal in spatial working memory.. Journal of Experimental Psychology: Human Perception and Performance, 1998, 24, 780-790.	0.7	327
15	Visual and oculomotor selection: links, causes and implications for spatial attention. Trends in Cognitive Sciences, 2006, 10, 124-130.	4.0	302
16	PET Evidence for an Amodal Verbal Working Memory System. NeuroImage, 1996, 3, 79-88.	2.1	236
17	Discrete capacity limits in visual working memory. Current Opinion in Neurobiology, 2010, 20, 177-182.	2.0	226
18	Factorial comparison of working memory models.. Psychological Review, 2014, 121, 124-149.	2.7	225

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19	The contralateral delay activity as a neural measure of visual working memory. Neuroscience and Biobehavioral Reviews, 2016, 62, 100-108.	2.9	221
20	Evidence for split attentional foci.. Journal of Experimental Psychology: Human Perception and Performance, 2000, 26, 834-846.	0.7	219
21	The Role of Spatial Selective Attention in Working Memory for Locations: Evidence from Event-Related Potentials. Journal of Cognitive Neuroscience, 2000, 12, 840-847.	1.1	219
22	Benchmarks for models of short-term and working memory.. Psychological Bulletin, 2018, 144, 885-958.	5.5	199
23	Spatially Global Representations in Human Primary Visual Cortex during Working Memory Maintenance. Journal of Neuroscience, 2009, 29, 15258-15265.	1.7	193
24	The topography of alpha-band activity tracks the content of spatial working memory. Journal of Neurophysiology, 2016, 115, 168-177.	0.9	185
25	Alpha-Band Oscillations Enable Spatially and Temporally Resolved Tracking of Covert Spatial Attention. Psychological Science, 2017, 28, 929-941.	1.8	180
26	Rehearsal in Spatial Working Memory: Evidence From Neuroimaging. Psychological Science, 1999, 10, 433-437.	1.8	174
27	A Neural Measure of Precision in Visual Working Memory. Journal of Cognitive Neuroscience, 2013, 25, 754-761.	1.1	170
28	Preparatory Activity in Visual Cortex Indexes Distractor Suppression During Covert Spatial Orienting. Journal of Neurophysiology, 2004, 92, 3538-3545.	0.9	152
29	The where and how of attention-based rehearsal in spatial working memory. Cognitive Brain Research, 2004, 20, 194-205.	3.3	148
30	How to Exploit Diversity for Scientific Gain. Current Directions in Psychological Science, 2008, 17, 171-176.	2.8	148
31	Human Rehearsal Processes and the Frontal Lobes: PET Evidence. Annals of the New York Academy of Sciences, 1995, 769, 97-118.	1.8	141
32	Precision in Visual Working Memory Reaches a Stable Plateau When Individual Item Limits Are Exceeded. Journal of Neuroscience, 2011, 31, 1128-1138.	1.7	136
33	The role of alpha oscillations in spatial attention: limited evidence for a suppression account. Current Opinion in Psychology, 2019, 29, 34-40.	2.5	124
34	The anterior cingulate cortex lends a hand in response selection. Nature Neuroscience, 1999, 2, 853-854.	7.1	122
35	Alpha-Band Activity Reveals Spontaneous Representations of Spatial Position in Visual Working Memory. Current Biology, 2017, 27, 3216-3223.e6.	1.8	122
36	The bouncer in the brain. Nature Neuroscience, 2008, 11, 5-6.	7.1	119

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37	Clear evidence for item limits in visual working memory. Cognitive Psychology, 2017, 97, 79-97.	0.9	118
38	Spatial attention, preview, and popout: Which factors influence critical spacing in crowded displays?. Journal of Vision, 2007, 7, 7.	0.1	100
39	Perceptual expertise enhances the resolution but not the number of representations in working memory. Psychonomic Bulletin and Review, 2008, 15, 215-222.	1.4	94
40	The elusive link between conflict and conflict adaptation. Psychological Research, 2009, 73, 794-802.	1.0	82
41	Dissecting the Neural Focus of Attention Reveals Distinct Processes for Spatial Attention and Object-Based Storage in Visual Working Memory. Psychological Science, 2019, 30, 526-540.	1.8	82
42	Neural Measures Reveal a Fixed Item Limit in Subitizing. Journal of Neuroscience, 2012, 32, 7169-7177.	1.7	81
43	Discrete resource allocation in visual working memory.. Journal of Experimental Psychology: Human Perception and Performance, 2009, 35, 1359-1367.	0.7	80
44	Feature-Selective Attentional Modulations in Human Frontoparietal Cortex. Journal of Neuroscience, 2016, 36, 8188-8199.	1.7	77
45	Working Memory Delay Activity Predicts Individual Differences in Cognitive Abilities. Journal of Cognitive Neuroscience, 2015, 27, 853-865.	1.1	72
46	Top-down control over biased competition during covert spatial orienting.. Journal of Experimental Psychology: Human Perception and Performance, 2003, 29, 52-63.	0.7	71
47	Evidence against a central bottleneck during the attentional blink: Multiple channels for configural and featural processing. Cognitive Psychology, 2004, 48, 95-126.	0.9	68
48	Real-time triggering reveals concurrent lapses of attention and working memory. Nature Human Behaviour, 2019, 3, 808-816.	6.2	61
49	Statistical learning induces discrete shifts in the allocation of working memory resources.. Journal of Experimental Psychology: Human Perception and Performance, 2010, 36, 1419-1429.	0.7	54
50	Visual crowding cannot be wholly explained by feature pooling.. Journal of Experimental Psychology: Human Perception and Performance, 2014, 40, 1022-1033.	0.7	53
51	Contralateral Delay Activity Indexes Working Memory Storage, Not the Current Focus of Spatial Attention. Journal of Cognitive Neuroscience, 2018, 30, 1185-1196.	1.1	53
52	Top-down control over biased competition during covert spatial orienting. Journal of Experimental Psychology: Human Perception and Performance, 2003, 29, 52-63.	0.7	50
53	A bilateral advantage for storage in visual working memory. Cognition, 2010, 117, 69-79.	1.1	48
54	Retrieval practice enhances the accessibility but not the quality of memory. Psychonomic Bulletin and Review, 2016, 23, 831-841.	1.4	47

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55	Evidence for Two Components of Object-Based Selection. Psychological Science, 2001, 12, 329-334.	1.8	44
56	Verbal and Spatial Working Memory in Humans. Psychology of Learning and Motivation - Advances in Research and Theory, 1996, 35, 43-88.	0.5	43
57	Spatially Selective Alpha Oscillations Reveal Moment-by-Moment Trade-offs between Working Memory and Attention. Journal of Cognitive Neuroscience, 2018, 30, 256-266.	1.1	40
58	The Capacity of Audiovisual Integration Is Limited to One Item. Psychological Science, 2013, 24, 345-351.	1.8	38
59	Alpha-band oscillations track the retrieval of precise spatial representations from long-term memory. Journal of Neurophysiology, 2019, 122, 539-551.	0.9	36
60	The role of long-term memory in a test of visual working memory: Proactive facilitation but no proactive interference.. Journal of Experimental Psychology: Learning Memory and Cognition, 2017, 43, 1-22.	0.7	33
61	Covert Spatial Attention Speeds Target Individuation. Journal of Neuroscience, 2020, 40, 2717-2726.	1.7	33
62	Selection and storage of perceptual groups is constrained by a discrete resource in working memory.. Journal of Experimental Psychology: Human Perception and Performance, 2013, 39, 824-835.	0.7	26
63	Item-specific delay activity demonstrates concurrent storage of multiple active neural representations in working memory. PLoS Biology, 2019, 17, e3000239.	2.6	26
64	Induced Alpha Rhythms Track the Content and Quality of Visual Working Memory Representations with High Temporal Precision. Journal of Neuroscience, 2014, 34, 7587-7599.	1.7	25
65	Chunking in working memory via content-free labels. Scientific Reports, 2018, 8, 23.	1.6	25
66	Perturbing Neural Representations of Working Memory with Task-irrelevant Interruption. Journal of Cognitive Neuroscience, 2020, 32, 558-569.	1.1	25
67	Resolving Visual Interference During Covert Spatial Orienting: Online Attentional Control Through Static Records of Prior Visual Experience.. Journal of Experimental Psychology: General, 2005, 134, 192-206.	1.5	24
68	Spatially Guided Distractor Suppression during Visual Search. Journal of Neuroscience, 2021, 41, 3180-3191.	1.7	22
69	Sleep-dependent learning and practice-dependent deterioration in an orientation discrimination task.. Behavioral Neuroscience, 2008, 122, 267-272.	0.6	20
70	Controlling the Flow of Distracting Information in Working Memory. Cerebral Cortex, 2021, 31, 3323-3337.	1.6	18
71	Increased Sensitivity to Perceptual Interference in Adults with Attention Deficit Hyperactivity Disorder. Journal of the International Neuropsychological Society, 2012, 18, 511-520.	1.2	15
72	â€œMemory compressionâ€•effects in visual working memory are contingent on explicit long-term memory.. Journal of Experimental Psychology: General, 2019, 148, 1373-1385.	1.5	15

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73	Attending Multiple Items Decreases the Selectivity of Population Responses in Human Primary Visual Cortex. Journal of Neuroscience, 2013, 33, 9273-9282.	1.7	14
74	Multivariate analysis reveals a generalizable human electrophysiological signature of working memory load. Psychophysiology, 2020, 57, e13691.	1.2	14
75	Shared Representational Formats for Information Maintained in Working Memory and Information Retrieved from Long-Term Memory. Cerebral Cortex, 2022, 32, 1077-1092.	1.6	14
76	Covert Attention Increases the Gain of Stimulus-Evoked Population Codes. Journal of Neuroscience, 2021, 41, 1802-1815.	1.7	13
77	Estimating the statistical power to detect setâ€size effects in contralateral delay activity. Psychophysiology, 2021, 58, e13791.	1.2	11
78	The processing locus of interference from salient singleton distractors. Visual Cognition, 2008, 16, 166-181.	0.9	9
79	Attention fluctuations impact ongoing maintenance of information in working memory. Psychonomic Bulletin and Review, 2020, 27, 1269-1278.	1.4	9
80	Decoding chromaticity and luminance from patterns of EEG activity. Psychophysiology, 2021, 58, e13779.	1.2	9
81	Sustained Attention and Spatial Attention Distinctly Influence Long-term Memory Encoding. Journal of Cognitive Neuroscience, 2021, 33, 2132-2148.	1.1	9
82	The capacity to detect synchronous audiovisual events is severely limited: Evidence from mixture modeling.. Journal of Experimental Psychology: Human Perception and Performance, 2016, 42, 2115-2124.	0.7	9
83	The Positional-Specificity Effect Reveals a Passive-Trace Contribution to Visual Short-Term Memory. PLoS ONE, 2013, 8, e83483.	1.1	8
84	Evidence for a fixed capacity limit in attending multiple locations. Cognitive, Affective and Behavioral Neuroscience, 2014, 14, 62-77.	1.0	7
85	Alpha-band Activity Tracks the Zoom Lens of Attention. Journal of Cognitive Neuroscience, 2020, 32, 272-282.	1.1	7
86	Perceptual Grouping Reveals Distinct Roles for Sustained Slow Wave Activity and Alpha Oscillations in Working Memory. Journal of Cognitive Neuroscience, 2021, 33, 1354-1364.	1.1	7
87	Inter-electrode correlations measured with EEG predict individual differences in cognitive ability. Current Biology, 2021, 31, 4998-5008.e6.	1.8	7
88	The role of context in volitional control of feature-based attention.. Journal of Experimental Psychology: Human Perception and Performance, 2016, 42, 213-224.	0.7	6
89	Experience-dependent changes in the topography of visual crowding. Journal of Vision, 2009, 9, 15-15.	0.1	5
90	Online response-selection and the attentional blink: Multiple-processing channels. Visual Cognition, 2009, 17, 531-554.	0.9	5

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91	Attention: feedback focuses a wandering mind. Nature Neuroscience, 2015, 18, 327-328.	7.1	5
92	Object-based biased competition during covert spatial orienting. Attention, Perception, and Psychophysics, 2019, 81, 1366-1385.	0.7	5
93	Multivariate analysis of EEG activity indexes contingent attentional capture. NeuroImage, 2021, 226, 117562.	2.1	4
94	A Neural Measure of Item Individuation. , 2014, , 226-235.		4
95	Benchmarks provide common ground for model development: Reply to Logie (2018) and Vandierendonck (2018).. Psychological Bulletin, 2018, 144, 972-977.	5.5	2
96	The N2pc does not reflect a shift of covert spatial attention. Journal of Vision, 2018, 18, 1220.	0.1	1
97	Alpha-band activity reveals robust representations of spatial position during the storage of non-spatial features in working memory. Journal of Vision, 2017, 17, 335.	0.1	1
98	What is the source of activation for working memory?. Behavioral and Brain Sciences, 2003, 26, 741-742.	0.4	0
99	Commentary: Specificity, Mechanisms, and Timing in the Study of Spatial Cognition. , 2007, , 362-372.		0
100	Alpha-Band Activity Tracks Updates to the Content of Spatial Working Memory. Journal of Vision, 2017, 17, 337.	0.1	0
101	Neural representations of spatial position recalled from long-term and short-term memory diverge across the cortical hierarchy. Journal of Vision, 2017, 17, 1115.	0.1	0
102	Memory compression using statistical regularities requires explicit awareness. Journal of Vision, 2017, 17, 855.	0.1	0
103	Topography of alpha-band power tracks improvement in working memory precision with repeated encoding. Journal of Vision, 2017, 17, 333.	0.1	0
104	Decoding the limits of simultaneous storage in working memory. Journal of Vision, 2018, 18, 366.	0.1	0
105	Real-time triggering reveals sustained attention and working memory lapse together. Journal of Vision, 2019, 19, 133c.	0.1	0
106	Examining the effects of memory compression with the contralateral delay activity. Journal of Vision, 2019, 19, 204a.	0.1	0
107	The influence of task-relevant vs. task-irrelevant interruption on dissociable sub-component processes of the focus of attention. Journal of Vision, 2019, 19, 90c.	0.1	0
108	Classification of load in visual working memory using single-trial EEG data. Journal of Vision, 2019, 19, 247a.	0.1	0

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109	Characterizing the influence of spatial attention on stimulus-evoked cortical representations. Journal of Vision, 2019, 19, 99c.	0.1	0
110	Decoding chromaticity and luminance information with multivariate EEG. Journal of Vision, 2019, 19, 70.	0.1	0