

# Randall W Engle

## List of Publications by Year in descending order

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158  
papers

33,519  
citations

13068

68  
h-index

10127

140  
g-index

177  
all docs

177  
docs citations

177  
times ranked

15359  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the relationship between rationality and intelligence: a latent-variable approach. <i>Thinking and Reasoning</i> , 2023, 29, 1-42.	2.1	6
2	Attention control and process overlap theory: Searching for cognitive processes underpinning the positive manifold. <i>Intelligence</i> , 2022, 91, 101629.	1.6	15
3	The role of attention control in complex real-world tasks. <i>Psychonomic Bulletin and Review</i> , 2022, 29, 1143-1197.	1.4	23
4	A toolbox approach to improving the measurement of attention control.. <i>Journal of Experimental Psychology: General</i> , 2021, 150, 242-275.	1.5	92
5	Is baseline pupil size related to cognitive ability? Yes (under proper lighting conditions). <i>Cognition</i> , 2021, 211, 104643.	1.1	26
6	Reducing adverse impact in high-stakes testing. <i>Intelligence</i> , 2021, 87, 101561.	1.6	13
7	The visual arrays task: Visual storage capacity or attention control?. <i>Journal of Experimental Psychology: General</i> , 2021, 150, 2525-2551.	1.5	8
8	Fluid intelligence and the locus coeruleusâ€“norepinephrine system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
9	The role of proactive interference in working memory training and transfer. <i>Psychological Research</i> , 2020, 84, 1635-1654.	1.0	12
10	Improving the Validity of the Armed Service Vocational Aptitude Battery with Measures of Attention Control. <i>Journal of Applied Research in Memory and Cognition</i> , 2020, 9, 323-335.	0.7	8
11	Attention Control: A Cornerstone of Higher-Order Cognition. <i>Current Directions in Psychological Science</i> , 2020, 29, 624-630.	2.8	61
12	Differential and experimental approaches to studying intelligence in humans and non-human animals. <i>Learning and Motivation</i> , 2020, 72, 101689.	0.6	10
13	Attention control: The missing link between sensory discrimination and intelligence. <i>Attention, Perception, and Psychophysics</i> , 2020, 82, 3445-3478.	0.7	29
14	Mitochondrial Functioning and Its Relation to Higher-Order Cognitive Processes. <i>Journal of Intelligence</i> , 2020, 8, 14.	1.3	2
15	The role of maintenance and disengagement in predicting reading comprehension and vocabulary learning.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2020, 46, 140-154.	0.7	11
16	Individual Differences in Attention Control. , 2020, , 175-211.		7
17	Reaction time in differential and developmental research: A review and commentary on the problems and alternatives.. <i>Psychological Bulletin</i> , 2019, 145, 508-535.	5.5	142
18	Quantifying Inhibitory Control as Externalizing Proneness: A Cross-Domain Model. <i>Clinical Psychological Science</i> , 2018, 6, 561-580.	2.4	78

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19	Working Memory and Executive Attention: A Revisit. <i>Perspectives on Psychological Science</i> , 2018, 13, 190-193.	5.2	186
20	Editorâ€™s Introduction: Special Issue on Racism. <i>Current Directions in Psychological Science</i> , 2018, 27, 147-147.	2.8	2
21	Is a science of the mind even possible? Reply to Logie (2018).. <i>Journal of Applied Research in Memory and Cognition</i> , 2018, 7, 493-498.	0.7	2
22	What item response theory can tell us about the complex span tasks.. <i>Psychological Assessment</i> , 2018, 30, 116-129.	1.2	37
23	Do the effects of working memory training depend on baseline ability level?. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2017, 43, 1677-1689.	0.7	48
24	Chocolate, Air Pollution and Children's Neuroprotection: What Cognition Tools should be at Hand to Evaluate Interventions?. <i>Frontiers in Pharmacology</i> , 2016, 7, 232.	1.6	7
25	Working Memory Capacity and Fluid Intelligence. <i>Perspectives on Psychological Science</i> , 2016, 11, 771-799.	5.2	160
26	Brain-Training Pessimism, but Applied-Memory Optimism. <i>Psychological Science in the Public Interest: A Journal of the American Psychological Society</i> , 2016, 17, 187-191.	6.7	29
27	Measuring working memory capacity on the web with the online working memory lab (the OWL).. <i>Journal of Applied Research in Memory and Cognition</i> , 2016, 5, 478-489.	0.7	27
28	The relationship between baseline pupil size and intelligence. <i>Cognitive Psychology</i> , 2016, 91, 109-123.	0.9	105
29	Cognitive predictors of a common multitasking ability: Contributions from working memory, attention control, and fluid intelligence.. <i>Journal of Experimental Psychology: General</i> , 2016, 145, 1473-1492.	1.5	90
30	Combining Reaction Time and Accuracy. <i>Perspectives on Psychological Science</i> , 2016, 11, 133-155.	5.2	95
31	Wonderlic, working memory capacity, and fluid intelligence. <i>Intelligence</i> , 2015, 50, 186-195.	1.6	21
32	Why is working memory capacity related to matrix reasoning tasks?. <i>Memory and Cognition</i> , 2015, 43, 389-396.	0.9	57
33	Working memory capacity accounts for the ability to switch between object-based and location-based allocation of visual attention. <i>Memory and Cognition</i> , 2015, 43, 379-388.	0.9	14
34	Working memory capacity and the scope and control of attention. <i>Attention, Perception, and Psychophysics</i> , 2015, 77, 1863-1880.	0.7	93
35	Is Playing Video Games Related to Cognitive Abilities?. <i>Psychological Science</i> , 2015, 26, 759-774.	1.8	136
36	Low cognitive load strengthens distractor interference while high load attenuates when cognitive load and distractor possess similar visual characteristics. <i>Attention, Perception, and Psychophysics</i> , 2015, 77, 1659-1673.	0.7	12

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37	Shortened complex span tasks can reliably measure working memory capacity. <i>Memory and Cognition</i> , 2015, 43, 226-236.	0.9	206
38	The mechanisms of working memory capacity: Primary memory, secondary memory, and attention control. <i>Journal of Memory and Language</i> , 2014, 72, 116-141.	1.1	243
39	No evidence of intelligence improvement after working memory training: A randomized, placebo-controlled study.. <i>Journal of Experimental Psychology: General</i> , 2013, 142, 359-379.	1.5	503
40	Working Memory Training May Increase Working Memory Capacity but Not Fluid Intelligence. <i>Psychological Science</i> , 2013, 24, 2409-2419.	1.8	258
41	Interference within the focus of attention: Working memory tasks reflect more than temporary maintenance.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2013, 39, 277-289.	0.7	70
42	Flavonol-rich dark cocoa significantly decreases plasma endothelin-1 and improves cognition in urban children. <i>Frontiers in Pharmacology</i> , 2013, 4, 104.	1.6	27
43	Does working memory training generalize?. <i>Psychologica Belgica</i> , 2013, 50, 245.	1.0	193
44	Faster, smarter? Working memory capacity and perceptual speed in relation to fluid intelligence. <i>Journal of Cognitive Psychology</i> , 2012, 24, 844-854.	0.4	51
45	Cogmed working memory training: Does the evidence support the claims?. <i>Journal of Applied Research in Memory and Cognition</i> , 2012, 1, 185-193.	0.7	211
46	Working memory training remains a work in progress.. <i>Journal of Applied Research in Memory and Cognition</i> , 2012, 1, 217-219.	0.7	34
47	The scope and control of attention as separate aspects of working memory. <i>Memory</i> , 2012, 20, 608-628.	0.9	67
48	Measuring Working Memory Capacity With Automated Complex Span Tasks. <i>European Journal of Psychological Assessment</i> , 2012, 28, 164-171.	1.7	322
49	Working Memory Capacity and Visual Attention: Top-Down and Bottom-Up Guidance. <i>Quarterly Journal of Experimental Psychology</i> , 2012, 65, 401-407.	0.6	32
50	Is working memory training effective?. <i>Psychological Bulletin</i> , 2012, 138, 628-654.	5.5	892
51	Effects of sleep deprivation on cognitive performance by United States Air Force pilots.. <i>Journal of Applied Research in Memory and Cognition</i> , 2012, 1, 27-33.	0.7	32
52	Incidental encoding of goal irrelevant information is associated with insufficient engagement of the dorsal frontal cortex and the inferior parietal cortex. <i>Brain Research</i> , 2012, 1429, 82-97.	1.1	12
53	Rapid communication: Integrating working memory capacity and context-processing views of cognitive control. <i>Quarterly Journal of Experimental Psychology</i> , 2011, 64, 1048-1055.	0.6	47
54	Exposure to severe urban air pollution influences cognitive outcomes, brain volume and systemic inflammation in clinically healthy children. <i>Brain and Cognition</i> , 2011, 77, 345-355.	0.8	256

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55	Individual Differences in Working Memory Capacity and Temporal Discrimination. PLoS ONE, 2011, 6, e25422.	1.1	30
56	Working memory capacity and go/no-go task performance: Selective effects of updating, maintenance, and inhibition.. Journal of Experimental Psychology: Learning Memory and Cognition, 2011, 37, 308-324.	0.7	95
57	Lapsed attention to elapsed time? Individual differences in working memory capacity and temporal reproduction. Acta Psychologica, 2011, 137, 115-126.	0.7	39
58	Comment From the Editor. Current Directions in Psychological Science, 2011, 20, 3-3.	2.8	3
59	Study Modality and False Recall. Experimental Psychology, 2011, 58, 117-124.	0.3	14
60	Validating running memory span: Measurement of working memory capacity and links with fluid intelligence. Behavior Research Methods, 2010, 42, 563-570.	2.3	122
61	Role of Working Memory Capacity in Cognitive Control. Current Anthropology, 2010, 51, S17-S26.	0.8	149
62	Individual Differences in Working Memory and Higher-Ordered Processing: The Commentaries. Plenum Series on Human Exceptionality, 2010, , 419-436.	2.0	0
63	Trait and State Differences in Working Memory Capacity. Plenum Series on Human Exceptionality, 2010, , 295-320.	2.0	85
64	Working Memory Capacity is Decreased in Sleep-Deprived Internal Medicine Residents. Journal of Clinical Sleep Medicine, 2009, 05, 191-197.	1.4	58
65	Complex working memory span tasks and higher-order cognition: A latent-variable analysis of the relationship between processing and storage. Memory, 2009, 17, 635-654.	0.9	321
66	Working memory capacity is decreased in sleep-deprived internal medicine residents. Journal of Clinical Sleep Medicine, 2009, 5, 191-7.	1.4	25
67	Effects of incentive on working memory capacity: Behavioral and pupillometric data. Psychophysiology, 2008, 45, 119-129.	1.2	97
68	Individual Differences in Delay Discounting. Psychological Science, 2008, 19, 904-911.	1.8	391
69	Psychotropic placebos reduce the misinformation effect by increasing monitoring at test. Memory, 2008, 16, 410-419.	0.9	25
70	Air pollution, cognitive deficits and brain abnormalities: A pilot study with children and dogs. Brain and Cognition, 2008, 68, 117-127.	0.8	450
71	Speed and accuracy of accessing information in working memory: An individual differences investigation of focus switching.. Journal of Experimental Psychology: Learning Memory and Cognition, 2008, 34, 616-630.	0.7	65
72	Variation in Working Memory Capacity as Variation in Executive Attention and Control. , 2008, , 21-48.		110

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73	Focusing the spotlight: Individual differences in visual attention control.. Journal of Experimental Psychology: General, 2007, 136, 217-240.	1.5	175
74	The nature of individual differences in working memory capacity: Active maintenance in primary memory and controlled search from secondary memory.. Psychological Review, 2007, 114, 104-132.	2.7	959
75	On the division of short-term and working memory: An examination of simple and complex span and their relation to higher order abilities.. Psychological Bulletin, 2007, 133, 1038-1066.	5.5	471
76	Simple and complex memory spans and their relation to fluid abilities: Evidence from list-length effects. Journal of Memory and Language, 2006, 54, 68-80.	1.1	180
77	A temporalâ€“contextual retrieval account of complex span: An analysis of errorsâˆ†. Journal of Memory and Language, 2006, 54, 346-362.	1.1	60
78	Working memory capacity and attention network test performance. Applied Cognitive Psychology, 2006, 20, 713-721.	0.9	171
79	Working memory capacity and the top-down control of visual search: Exploring the boundaries of "executive attention".. Journal of Experimental Psychology: Learning Memory and Cognition, 2006, 32, 749-777.	0.7	133
80	Working memory, executive function, and general fluid intelligence are not the same. Behavioral and Brain Sciences, 2006, 29, 135-136.	0.4	47
81	An automated version of the operation span task. Behavior Research Methods, 2005, 37, 498-505.	2.3	1,344
82	Individual differences in working memory capacity and learning: Evidence from the serial reaction time task. Memory and Cognition, 2005, 33, 213-220.	0.9	141
83	Working memory span tasks: A methodological review and userâ€™s guide. Psychonomic Bulletin and Review, 2005, 12, 769-786.	1.4	1,984
84	Working Memory Capacity in Hot and Cold Cognition. , 2005, , 19-43.		32
85	Age Differences and Individual Differences in Cognitive Functions. , 2005, , 44-72.		7
86	An Ecological Approach to Studying Aging and Dual-Task Performance. , 2005, , 190-218.		40
87	Cognitive Limitations in Aging and Psychopathology: An Introduction and a Brief Tutorial to Research Methods. , 2005, , 1-16.		0
88	Stress and Working Memory: Between-Person and Within-Person Relationships. , 2005, , 73-94.		3
89	The Aging of Cognitive Control: Studies of Conflict Processing, Goal Neglect, and Error Monitoring. , 2005, , 97-121.		2
90	Impairments of Memory and Reasoning in Patients with Neuropsychiatric Illness: Disruptions of Dynamic Cognitive Binding?. , 2005, , 346-376.		0

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91	Generative Reasoning as Influenced by Depression, Aging, Stereotype Threat, and Prejudice. , 2005, , 377-401.		2
92	Working Memory Capacity, Attention Control, and Fluid Intelligence. , 2005, , 61-78.		59
93	The Role of Working Memory in Higher-Level Cognition: Domain-Specific versus Domain-General Perspectives. , 2004, , 104-121.		7
94	The Generality of Working Memory Capacity: A Latent-Variable Approach to Verbal and Visuospatial Memory Span and Reasoning.. Journal of Experimental Psychology: General, 2004, 133, 189-217.	1.5	1,288
95	Individual Differences in Working Memory Capacity and Dual-Process Theories of the Mind.. Psychological Bulletin, 2004, 130, 553-573.	5.5	699
96	Working Memory Capacity and the Antisaccade Task: Individual Differences in Voluntary Saccade Control.. Journal of Experimental Psychology: Learning Memory and Cognition, 2004, 30, 1302-1321.	0.7	301
97	Working memory capacity and resistance to interference. Journal of Memory and Language, 2004, 51, 80-96.	1.1	72
98	Individual differences in working memory capacity predict visual attention allocation. Psychonomic Bulletin and Review, 2003, 10, 884-889.	1.4	121
99	Dissociable brain mechanisms for inhibitory control: effects of interference content and working memory capacity. Cognitive Brain Research, 2003, 18, 26-38.	3.3	82
100	Working-memory capacity and the control of attention: The contributions of goal neglect, response competition, and task set to Stroop interference.. Journal of Experimental Psychology: General, 2003, 132, 47-70.	1.5	1,288
101	Working memory capacity and its relation to general intelligence. Trends in Cognitive Sciences, 2003, 7, 547-552.	4.0	889
102	Executive Attention, Working Memory Capacity, and a Two-Factor Theory of Cognitive Control. Psychology of Learning and Motivation - Advances in Research and Theory, 2003, 44, 145-199.	0.5	406
103	The Role of Working Memory in Problem Solving. , 2003, , 176-206.		50
104	Working Memory Capacity as Executive Attention. Current Directions in Psychological Science, 2002, 11, 19-23.	2.8	1,850
105	Effects of Domain Knowledge, Working Memory Capacity, and Age on Cognitive Performance: An Investigation of the Knowledge-Is-Power Hypothesis. Cognitive Psychology, 2002, 44, 339-387.	0.9	228
106	The role of prefrontal cortex in working-memory capacity, executive attention, and general fluid intelligence: An individual-differences perspective. Psychonomic Bulletin and Review, 2002, 9, 637-671.	1.4	1,718
107	A controlled-attention view of working-memory capacity.. Journal of Experimental Psychology: General, 2001, 130, 169-183.	1.5	1,067
108	Individual differences in working memory capacity and enumeration. Memory and Cognition, 2001, 29, 484-492.	0.9	106

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109	Working-memory capacity, proactive interference, and divided attention: Limits on long-term memory retrieval.. Journal of Experimental Psychology: Learning Memory and Cognition, 2000, 26, 336-358.	0.7	405
110	Working-memory capacity, proactive interference, and divided attention: limits on long-term memory retrieval. Journal of Experimental Psychology: Learning Memory and Cognition, 2000, 26, 336-58.	0.7	283
111	What do working-memory tests really measure?. Behavioral and Brain Sciences, 1999, 22, 101-102.	0.4	5
112	The effect of memory load on negative priming: An individual differences investigation. Memory and Cognition, 1999, 27, 1042-1050.	0.9	117
113	Working memory, short-term memory, and general fluid intelligence: A latent-variable approach.. Journal of Experimental Psychology: General, 1999, 128, 309-331.	1.5	2,398
114	Individual Differences in Working Memory Capacity and What They Tell Us About Controlled Attention, General Fluid Intelligence, and Functions of the Prefrontal Cortex. , 1999, , 102-134.		641
115	Working memory, short-term memory, and general fluid intelligence: a latent-variable approach. Journal of Experimental Psychology: General, 1999, 128, 309-331.	1.5	745
116	Working Memory Capacity and Suppression. Journal of Memory and Language, 1998, 39, 418-436.	1.1	241
117	The role of working memory capacity in retrieval.. Journal of Experimental Psychology: General, 1997, 126, 211-227.	1.5	428
118	Forward and backward serial recall. Intelligence, 1997, 25, 37-47.	1.6	104
119	Working Memory and Retrieval: An Inhibition-Resource Approach. , 1996, , 89-116.		72
120	A Resource Account of Inhibition. Psychological Science, 1995, 6, 122-125.	1.8	204
121	Effects of Vocabulary Size and Acoustic Similarity on Serial Recall of Mouthed Stimuli. Journal of General Psychology, 1994, 121, 361-376.	1.6	1
122	Working memory and retrieval: A resource-dependent inhibition model.. Journal of Experimental Psychology: General, 1994, 123, 354-373.	1.5	386
123	Working-memory capacity as long-term memory activation: An individual-differences approach.. Journal of Experimental Psychology: Learning Memory and Cognition, 1993, 19, 1101-1114.	0.7	191
124	Individual differences in working memory and comprehension: A test of four hypotheses.. Journal of Experimental Psychology: Learning Memory and Cognition, 1992, 18, 972-992.	0.7	404
125	Effects of Same-Modality Interference on Immediate Serial Recall of Auditory and Visual Information. Journal of General Psychology, 1992, 119, 247-263.	1.6	8
126	Short-term memory, working memory, and verbal abilities: How do they relate?. Intelligence, 1991, 15, 229-246.	1.6	132



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127	Individual Differences in Working Memory for Comprehension and Following Directions. Journal of Educational Research, 1991, 84, 253-262.	0.8	166
128	A Program of Classical Conditioning Experiments Testing Variations in the Conditioned Stimulus and Context. Journal of Consumer Research, 1991, 18, 1.	3.5	235
129	Is "working memory capacity" just another name for word knowledge?. Journal of Educational Psychology, 1990, 82, 799-804.	2.1	100
130	Simple and complex word spans as measures of working memory capacity.. Journal of Experimental Psychology: Learning Memory and Cognition, 1990, 16, 1118-1133.	0.7	276
131	Suffix interference in the recall of linguistically coherent speech.. Journal of Experimental Psychology: Learning Memory and Cognition, 1990, 16, 446-456.	0.7	9
132	The influence of concurrent load on mouthed and vocalized modality effects. Memory and Cognition, 1989, 17, 701-711.	0.9	1
133	Is working memory capacity task dependent?. Journal of Memory and Language, 1989, 28, 127-154.	1.1	1,737
134	Modality Effects: Do They Fall on Deaf Ears?. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 1989, 41, 273-292.	2.3	11
135	Classical Conditioning of Consumer Attitudes: Four Experiments in an Advertising Context. Journal of Consumer Research, 1987, 14, 334.	3.5	295
136	Recency and suffix effects found with auditory presentation and with mouthed visual presentation: They're not the same thing. Journal of Memory and Language, 1987, 26, 138-164.	1.1	14
137	Echoic memory processes in good and poor readers.. Journal of Experimental Psychology: Learning Memory and Cognition, 1986, 12, 402-412.	0.7	15
138	The effect of instruction with relational and item-specific elaborative strategies on young children's organization and free recall. Journal of Experimental Child Psychology, 1984, 37, 282-302.	0.7	6
139	Voice change in the stimulus suffix effect: Are the effects structural or strategic?. Memory and Cognition, 1983, 11, 551-556.	0.9	49
140	Do developmental changes in digit span result from acquisition strategies?. Journal of Experimental Child Psychology, 1983, 36, 429-436.	0.7	25
141	How long does the modality effect persist?. Bulletin of the Psychonomic Society, 1982, 19, 343-346.	0.2	26
142	Is it lateralization, processing strategies, or both that distinguishes good and poor readers?. Journal of Experimental Child Psychology, 1982, 34, 1-19.	0.7	9
143	Does echoic memory develop?. Journal of Experimental Child Psychology, 1981, 32, 459-473.	0.7	17
144	Teaching awareness of strategic behavior in combination with strategy training: Effects on children's memory performance. Journal of Experimental Child Psychology, 1981, 32, 513-530.	0.7	33

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145	Structural and strategic factors in the stimulus suffix effect. <i>Journal of Verbal Learning and Verbal Behavior</i> , 1981, 20, 346-357.	3.8	57
146	The suffix effect: How many positions are involved?. <i>Memory and Cognition</i> , 1980, 8, 247-252.	0.9	13
147	Maintenance and generalization of a semantic rehearsal strategy in educable mentally retarded children. <i>Journal of Experimental Child Psychology</i> , 1980, 30, 438-454.	0.7	7
148	The modality effect: Is it a result of different strategies?. <i>Journal of Verbal Learning and Verbal Behavior</i> , 1980, 19, 226-239.	3.8	6
149	Strategy training and semantic encoding in mildly retarded children. <i>Intelligence</i> , 1979, 3, 17-30.	1.6	22
150	Memory Processes among Bridge Players of Differing Expertise. <i>American Journal of Psychology</i> , 1978, 91, 673.	0.5	132
151	Effects of Modality of Presentation on Delayed Recognition. <i>Perceptual and Motor Skills</i> , 1977, 45, 1203-1210.	0.6	7
152	A developmental study of the Prelinguistic Auditory Store (PAS). <i>Intelligence</i> , 1977, 1, 358-368.	1.6	6
153	The modality effect: What happens in long-term memory?. <i>Journal of Verbal Learning and Verbal Behavior</i> , 1976, 15, 519-527.	3.8	38
154	Negative recency in delayed recognition. <i>Journal of Verbal Learning and Verbal Behavior</i> , 1974, 13, 209-216.	3.8	10
155	The modality effect: Is precategorical acoustic storage responsible?. <i>Journal of Experimental Psychology</i> , 1974, 102, 824-829.	1.5	50
156	Imagery and abstractness in short-term memory.. <i>Journal of Experimental Psychology</i> , 1970, 84, 268-272.	1.5	25
157	What is working memory capacity?. , 0, , 297-314.		87
158	Mechanisms of Working Memory Capacity and Fluid Intelligence and Their Common Dependence on Executive Attention. , 0, , 287-307.		3