Andrew Heathcote

List of Publications by Year
in descending order

164 papers	8,565 citations	61857 43 h-index	56606 83 g-index
181 all docs	181 docs citations	181 times ranked	5348 citing authors

#	Article	IF	Citations
1	Target learning in event-based prospective memory.. Journal of Experimental Psychology: Learning Memory and Cognition, 2022, 48, 1110-1126.	0.7	3
2	OSARI, an Open-Source Anticipated Response Inhibition Task. Behavior Research Methods, 2022, 54, 1530-1540.	2.3	5
3	Editorial.. Psychological Review, 2022, 129, 1-3.	2.7	1
4	Integrated responding improves prospective memory accuracy. Psychonomic Bulletin and Review, 2022, 29, 934-942.	1.4	2
5	Self-reported mind wandering reflects executive control and selective attention. Psychonomic Bulletin and Review, 2022, 29, 2167-2180.	1.4	5
6	Modeling interaction as a complex system. Human-Computer Interaction, 2021, 36, 279-305.	3.1	13
7	Racing against the clock: Evidence-based versus time-based decisions.. Psychological Review, 2021, 128, 222-263.	2.7	24
8	Real-time prediction of short-timescale fluctuations in cognitive workload. Cognitive Research: Principles and Implications, 2021, 6, 30.	1.1	3
9	Urgency, leakage, and the relative nature of information processing in decision-making.. Psychological Review, 2021, 128, 160-186.	2.7	23
10	A new model of decision processing in instrumental learning tasks. ELife, 2021, 10, .	2.8	30
11	A cognitive model of response omissions in distraction paradigms. Memory and Cognition, 2021, , 1.	0.9	3
12	Evidence for different types of errors being associated with different types of post-error changes. Psychonomic Bulletin and Review, 2020, 27, 435-440.	1.4	17
13	Global semantic similarity effects in recognition memory: Insights from BEAGLE representations and the diffusion decision model. Journal of Memory and Language, 2020, 111, 104071.	1.1	10
14	Reconsidering electrophysiological markers of response inhibition in light of trigger failures in the stopâ€signal task. Psychophysiology, 2020, 57, e13619.	1.2	21
15	Computing Bayes factors for evidence-accumulation models using Warp-III bridge sampling. Behavior Research Methods, 2020, 52, 918-937.	2.3	11
16	Correlated racing evidence accumulator models. Journal of Mathematical Psychology, 2020, 96, 102331.	1.0	3
17	Investigating the effects of ongoing-task bias on prospective memory. Quarterly Journal of Experimental Psychology, 2020, 73, 1495-1513.	0.6	7
18	A Cautionary Note on Evidence-Accumulation Models of Response Inhibition in the Stop-Signal Paradigm. Computational Brain & Behavior, 2020, 3, 269-288.	0.9	14

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19	Systematic Parameter Reviews in Cognitive Modeling: Towards a Robust and Cumulative Characterization of Psychological Processes in the Diffusion Decision Model. Frontiers in Psychology, 2020, 11, 608287.	1.1	10
20	Accumulating advantages: A new conceptualization of rapid multiple choice.. Psychological Review, 2020, 127, 186-215.	2.7	20
21	Spatial Attention and Saccade Preparation Both Independently Contribute to the Discrimination of Oblique Orientations. Advances in Cognitive Psychology, 2020, 16, 329-343.	0.2	2
22	Using evidence accumulation modeling to quantify the relative contributions of spatial attention and saccade preparation in perceptual tasks.. Journal of Experimental Psychology: Human Perception and Performance, 2020, 46, 416-433.	0.7	4
23	Dynamic models of choice. Behavior Research Methods, 2019, 51, 961-985.	2.3	99
24	Modeling the effects of methylphenidate on interference and evidence accumulation processes using the conflict linear ballistic accumulator. Psychopharmacology, 2019, 236, 2501-2512.	1.5	7
25	What Do the Rules for the Wrong Game Tell us About How to Play the Right Game?. Computational Brain & Behavior, 2019, 2, 187-189.	0.9	1
26	Assessing Theoretical Conclusions With Blinded Inference to Investigate a Potential Inference Crisis. Advances in Methods and Practices in Psychological Science, 2019, 2, 335-349.	5.4	20
27	Parallel probability density approximation. Behavior Research Methods, 2019, 51, 2777-2799.	2.3	8
28	Confidence and varieties of bias. Journal of Mathematical Psychology, 2019, 90, 31-46.	1.0	1
29	Strategic attention and decision control support prospective memory in a complex dual-task environment. Cognition, 2019, 191, 103974.	1.1	38
30	Modeling distracted performance. Cognitive Psychology, 2019, 112, 48-80.	0.9	21
31	The cognitive load of narrative lies. Applied Cognitive Psychology, 2019, 33, 936-942.	0.9	6
32	Cognitive Modeling Suggests That Attentional Failures Drive Longer Stop-Signal Reaction Time Estimates in Attention Deficit/Hyperactivity Disorder. Clinical Psychological Science, 2019, 7, 856-872.	2.4	39
33	Reliability of triggering inhibitory process is a better predictor of impulsivity than SSRT. Acta Psychologica, 2019, 192, 104-117.	0.7	45
34	The Quality of Response Time Data Inference: A Blinded, Collaborative Assessment of the Validity of Cognitive Models. Psychonomic Bulletin and Review, 2019, 26, 1051-1069.	1.4	95
35	Two processes are not necessary to understand memory deficits. Behavioral and Brain Sciences, 2019, 42, e294.	0.4	1
36	Equally flexible and optimal response bias in older compared to younger adults.. Psychology and Aging, 2019, 34, 821-835.	1.4	7

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37	Inhibiting responses to difficult choices.. Journal of Experimental Psychology: General, 2019, 148, 124-142.	1.5	43
38	Cognitive control and capacity for prospective memory in complex dynamic environments.. Journal of Experimental Psychology: General, 2019, 148, 2181-2206.	1.5	29
39	Cognitive workload measurement and modeling under divided attention.. Journal of Experimental Psychology: Human Perception and Performance, 2019, 45, 826-839.	0.7	30
40	Using response time modeling to understand the sources of dual-task interference in a dynamic environment.. Journal of Experimental Psychology: Human Perception and Performance, 2019, 45, 1331-1345.	0.7	16
41	A consensus guide to capturing the ability to inhibit actions and impulsive behaviors in the stop-signal task. ELife, 2019, 8, .	2.8	479
42	Prospective memory in the red zone: Cognitive control and capacity sharing in a complex, multi-stimulus task.. Journal of Experimental Psychology: Applied, 2019, 25, 695-715.	0.9	10
43	Temporally specific <scp>miRNA</scp> expression patterns in the dorsal and ventral striatum of addictionâ€prone rats. Addiction Biology, 2018, 23, 631-642.	1.4	34
44	Intertrial RT variability affects level of targetâ€related interference in cued task switching. Psychophysiology, 2018, 55, e12971.	1.2	13
45	Estimating across-trial variability parameters of the Diffusion Decision Model: Expert advice and recommendations. Journal of Mathematical Psychology, 2018, 87, 46-75.	1.0	62
46	A cognitive model-based approach to testing mechanistic explanations for neuropsychological decrements during tobacco abstinence. Psychopharmacology, 2018, 235, 3115-3124.	1.5	4
47	Modeling the dynamics of recognition memory testing with an integrated model of retrieval and decision making. Cognitive Psychology, 2018, 104, 106-142.	0.9	25
48	The list strength effect in source memory: Data and a global matching model. Journal of Memory and Language, 2018, 103, 91-113.	1.1	18
49	Testing formal predictions of neuroscientific theories of ADHD with a cognitive modelâ€"based approach.. Journal of Abnormal Psychology, 2018, 127, 529-539.	2.0	21
50	Refining the law of practice.. Psychological Review, 2018, 125, 592-605.	2.7	34
51	Racing to remember: A theory of decision control in event-based prospective memory.. Psychological Review, 2018, 125, 851-887.	2.7	47
52	Understanding the causes of adapting, and failing to adapt, to time pressure in a complex multistimulus environment.. Journal of Experimental Psychology: Applied, 2018, 24, 380-399.	0.9	14
53	A Bayesian approach for estimating the probability of trigger failures in the stop-signal paradigm. Behavior Research Methods, 2017, 49, 267-281.	2.3	102
54	Failures of cognitive control or attention? The case of stop-signal deficits in schizophrenia. Attention, Perception, and Psychophysics, 2017, 79, 1078-1086.	0.7	68

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55	Breaking the rules in perceptual information integration. Cognitive Psychology, 2017, 95, 1-16.	0.9	10
56	A diffusion decision model analysis of evidence variability in the lexical decision task. Psychonomic Bulletin and Review, 2017, 24, 1949-1956.	1.4	8
57	Likelihood ratio sequential sampling models of recognition memory. Cognitive Psychology, 2017, 92, 101-126.	0.9	20
58	Asymmetric Compression of Representational Space for Object Animacy Categorization under Degraded Viewing Conditions. Journal of Cognitive Neuroscience, 2017, 29, 1995-2010.	1.1	21
59	Modeling cognitive load effects of conversation between a passenger and driver. Attention, Perception, and Psychophysics, 2017, 79, 1795-1803.	0.7	34
60	Diffusion vs. linear ballistic accumulation: Different models, different conclusions about the slope of the zROC in recognition memory. Journal of Memory and Language, 2017, 96, 36-61.	1.1	30
61	Opportunity for verbalization does not improve visual change detection performance: A state-trace analysis. Behavior Research Methods, 2017, 49, 853-862.	2.3	19
62	On the efficiency of neurally-informed cognitive models to identify latent cognitive states. Journal of Mathematical Psychology, 2017, 76, 142-155.	1.0	20
63	Bayesian analyses of cognitive architecture.. Psychological Methods, 2017, 22, 288-303.	2.7	9
64	Model flexibility analysis does not measure the persuasiveness of a fit.. Psychological Review, 2017, 124, 339-345.	2.7	12
65	Accumulating evidence about what prospective memory costs actually reveal.. Journal of Experimental Psychology: Learning Memory and Cognition, 2017, 43, 1616-1629.	0.7	31
66	Fundamental causes of systematic and random variability in recognition memory. Journal of Memory and Language, 2016, 88, 51-69.	1.1	6
67	Evidence accumulation in a complex task: Making choices about concurrent multiattribute stimuli under time pressure.. Journal of Experimental Psychology: Applied, 2016, 22, 1-23.	0.9	16
68	Distinguishing the time- and magnitude-difference accounts of the Simon effect: Evidence from the reach-to-touch paradigm. Attention, Perception, and Psychophysics, 2016, 78, 848-867.	0.7	14
69	Bayes factors for state-trace analysis. Journal of Mathematical Psychology, 2016, 72, 116-129.	1.0	12
70	The impact of MRI scanner environment on perceptual decision-making. Behavior Research Methods, 2016, 48, 184-200.	2.3	37
71	A new framework for modeling decisions about changing information: The Piecewise Linear Ballistic Accumulator model. Cognitive Psychology, 2016, 85, 1-29.	0.9	53
72	Biased relevance filtering in the auditory system: A test of confidence-weighted first-impressions. Biological Psychology, 2016, 115, 101-111.	1.1	16

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73	Titrating decision processes in the mental rotation task.. Psychological Review, 2015, 122, 735-754.	2.7	21
74	Anodal tDCS over the Motor Cortex on Prepared and Unprepared Responses in Young Adults. PLoS ONE, 2015, 10, e0124509.	1.1	13
75	Working memory's workload capacity. Memory and Cognition, 2015, 43, 973-989.	0.9	23
76	Generalising the drift rate distribution for linear ballistic accumulators. Journal of Mathematical Psychology, 2015, 68-69, 49-58.	1.0	19
77	Slow down and remember to remember! A delay theory of prospective memory costs.. Psychological Review, 2015, 122, 376-410.	2.7	92
78	An Introduction to Good Practices in Cognitive Modeling. , 2015, , 25-48.		63
79	Toward a model-based cognitive neuroscience of mind wandering. Neuroscience, 2015, 310, 290-305.	1.1	23
80	The Lognormal Race: A Cognitive-Process Model of Choice and Latency with Desirable Psychometric Properties. Psychometrika, 2015, 80, 491-513.	1.2	48
81	The fragile nature of contextual preference reversals: Reply to Tsetsos, Chater, and Usher (2015).. Psychological Review, 2015, 122, 848-853.	2.7	30
82	Decision processes and the slowing of simple choices in schizophrenia.. Journal of Abnormal Psychology, 2015, 124, 961-974.	2.0	23
83	Reactive control processes contributing to residual switch cost and mixing cost across the adult lifespan. Frontiers in Psychology, 2014, 5, 383.	1.1	27
84	Mismatch negativity (MMN) to pitch change is susceptible to order-dependent bias. Frontiers in Neuroscience, 2014, 8, 180.	1.4	34
85	Brain and Behavior in Decision-Making. PLoS Computational Biology, 2014, 10, e1003700.	1.5	33
86	The falsifiability of actual decision-making models.. Psychological Review, 2014, 121, 676-678.	2.7	22
87	The hare and the tortoise: Emphasizing speed can change the evidence used to make decisions.. Journal of Experimental Psychology: Learning Memory and Cognition, 2014, 40, 1226-1243.	0.7	139
88	The multiattribute linear ballistic accumulator model of context effects in multialternative choice.. Psychological Review, 2014, 121, 179-205.	2.7	181
89	Altering the primacy bias—How does a prior task affect mismatch negativity?. Psychophysiology, 2014, 51, 437-445.	1.2	26
90	When the Brain Takes a Break: A Model-Based Analysis of Mind Wandering. Journal of Neuroscience, 2014, 34, 16286-16295.	1.7	159

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91	Integrating Cognitive Process and Descriptive Models of Attitudes and Preferences. Cognitive Science, 2014, 38, 701-735.	0.8	45
92	What controls gain in gain control? Mismatch negativity (MMN), priors and system biases. Brain Topography, 2014, 27, 578-589.	0.8	35
93	Extending the Failure-to-Engage theory of task switch costs. Cognitive Psychology, 2014, 72, 108-141.	0.9	10
94	The best of times and the worst of times are interchangeable.. Decision, 2014, 1, 192-214.	0.4	19
95	Not Just for Consumers. Psychological Science, 2013, 24, 901-908.	1.8	184
96	Not so primitive: context-sensitive meta-learning about unattended sound sequences. Journal of Neurophysiology, 2013, 109, 99-105.	0.9	37
97	Two Routes to Expertise in Mental Rotation. Cognitive Science, 2013, 37, 1321-1342.	0.8	30
98	The design and analysis of state-trace experiments.. Psychological Methods, 2012, 17, 78-99.	2.7	52
99	When learning gets stuck: An automatic bias that alters probability sampling in the unattended auditory environment. International Journal of Psychophysiology, 2012, 85, 316-317.	0.5	0
100	Diffusion versus linear ballistic accumulation: Different models for response time with different conclusions about psychological mechanisms?. Canadian Journal of Experimental Psychology, 2012, 66, 125-136.	0.7	25
101	An R package for state-trace analysis. Behavior Research Methods, 2012, 44, 644-655.	2.3	8
102	Linear Deterministic Accumulator Models of Simple Choice. Frontiers in Psychology, 2012, 3, 292.	1.1	65
103	Variability in Proactive and Reactive Cognitive Control Processes Across the Adult Lifespan. Frontiers in Psychology, 2011, 2, 318.	1.1	77
104	Increasing capacity: Practice effects in absolute identification.. Journal of Experimental Psychology: Learning Memory and Cognition, 2011, 37, 477-492.	0.7	6
105	Switch‐specific and general preparation map onto different ERP components in a task‐switching paradigm. Psychophysiology, 2011, 48, 559-568.	1.2	77
106	Stimulus-specific learning: disrupting the bow effect in absolute identification. Attention, Perception, and Psychophysics, 2011, 73, 1977-1986.	0.7	2
107	Diffusion versus linear ballistic accumulation: different models but the same conclusions about psychological processes?. Psychonomic Bulletin and Review, 2011, 18, 61-69.	1.4	127
108	The form of the forgetting curve and the fate of memories. Journal of Mathematical Psychology, 2011, 55, 25-35.	1.0	156

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109	Drawing conclusions from choice response time models: A tutorial using the linear ballistic accumulator. Journal of Mathematical Psychology, 2011, 55, 140-151.	1.0	82
110	Adjustments of Response Threshold during Task Switching: A Model-Based Functional Magnetic Resonance Imaging Study. Journal of Neuroscience, 2011, 31, 14688-14692.	1.7	88
111	Converging measures of workload capacity. Psychonomic Bulletin and Review, 2010, 17, 763-771.	1.4	60
112	Item effects in recognition memory for words. Journal of Memory and Language, 2010, 62, 1-18.	1.1	36
113	Recollection and confidence in two-alternative forced choice episodic recognition. Journal of Memory and Language, 2010, 62, 183-203.	1.1	28
114	Distribution-free tests of stochastic dominance for small samples. Journal of Mathematical Psychology, 2010, 54, 454-463.	1.0	41
115	Advance preparation in task-switching: converging evidence from behavioral, brain activation, and model-based approaches. Frontiers in Psychology, 2010, 1, 25.	1.1	118
116	Sequence effects support the conflict theory of N2 and P3 in the Go/NoGo task. International Journal of Psychophysiology, 2010, 75, 217-226.	0.5	97
117	Dissociating speed and accuracy in absolute identification: the effect of unequal stimulus spacing. Psychological Research, 2009, 73, 308-316.	1.0	6
118	ChoiceKey: A real-time speech recognition program for psychology experiments with a small response set. Behavior Research Methods, 2009, 41, 154-162.	2.3	8
119	Getting more from accuracy and response time data: Methods for fitting the linear ballistic accumulator. Behavior Research Methods, 2009, 41, 1095-1110.	2.3	67
120	Anticipatory reconfiguration elicited by fully and partially informative cues that validly predict a switch in task. Cognitive, Affective and Behavioral Neuroscience, 2009, 9, 202-215.	1.0	105
121	Purely relative models cannot provide a general account of absolute identification. Psychonomic Bulletin and Review, 2009, 16, 583-593.	1.4	8
122	A dissociation between similarity effects in episodic face recognition. Psychonomic Bulletin and Review, 2009, 16, 824-831.	1.4	21
123	The overconstraint of response time models: Rethinking the scaling problem. Psychonomic Bulletin and Review, 2009, 16, 1129-1135.	1.4	108
124	Referential delusions of communication and reality discrimination deficits in psychosis. British Journal of Clinical Psychology, 2008, 47, 323-334.	1.7	9
125	The simplest complete model of choice response time: Linear ballistic accumulation. Cognitive Psychology, 2008, 57, 153-178.	0.9	835
126	An integrated model of choices and response times in absolute identification.. Psychological Review, 2008, 115, 396-425.	2.7	78

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127	Measuring 3-D understanding on the Web and in the laboratory. Behavior Research Methods, 2007, 39, 926-939.	2.3	5
128	Referential delusions of communication and self-monitoring deficits in psychosis. Acta Neuropsychiatrica, 2006, 18, 243-244.	1.0	1
129	Recollection and familiarity in recognition memory: Evidence from ROC curves. Journal of Memory and Language, 2006, 55, 495-514.	1.1	45
130	Word frequency and word likeness mirror effects in episodic recognition memory. Memory and Cognition, 2006, 34, 826-838.	0.9	15
131	A Ballistic Model of Choice Response Time.. Psychological Review, 2005, 112, 117-128.	2.7	178
132	Electrophysiological correlates of anticipatory task-switching processes. Psychophysiology, 2005, 42, 050826083856001-???.	1.2	98
133	Practice Increases the Efficiency of Evidence Accumulation in Perceptual Choice.. Journal of Experimental Psychology: Human Perception and Performance, 2005, 31, 289-298.	0.7	19
134	Nonlinear dynamical analysis of noisy time series. Nonlinear Dynamics, Psychology, and Life Sciences, 2005, 9, 399-433.	0.2	1
135	QMPE: Estimating Lognormal, Wald, and Weibull RT distributions with a parameter-dependent lower bound. Behavior Research Methods, 2004, 36, 277-290.	1.3	122
136	Reply to Speckman and Rouder: A theoretical basis for QML. Psychonomic Bulletin and Review, 2004, 11, 577-578.	1.4	50
137	Fitting Wald and ex-Wald distributions to response time data: An example using functions for the S-PLUS package. Behavior Research Methods, 2004, 36, 678-694.	1.3	66
138	Fitting distributions using maximum likelihood: Methods and packages. Behavior Research Methods, 2004, 36, 742-756.	1.3	129
139	Beyond Curve Fitting? Comment on Liu, Mayer-Kress, and Newell (2003). Journal of Motor Behavior, 2004, 36, 225-232.	0.5	4
140	Averaging learning curves across and within participants. Behavior Research Methods, 2003, 35, 11-21.	1.3	85
141	QMLE: Fast, robust, and efficient estimation of distribution functions based on quantiles. Behavior Research Methods, 2003, 35, 485-492.	1.3	58
142	Bias in exponential and power function fits due to noise: Comment on Myung, Kim, and Pitt. Memory and Cognition, 2003, 31, 656-661.	0.9	7
143	Item Recognition Memory and the Receiver Operating Characteristic.. Journal of Experimental Psychology: Learning Memory and Cognition, 2003, 29, 1210-1230.	0.7	108
144	On the Use of Nonparametric Regression in Assessing Parametric Regression Models. Journal of Mathematical Psychology, 2002, 46, 716-730.	1.0	5

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145	Quantile maximum likelihood estimation of response time distributions. Psychonomic Bulletin and Review, 2002, 9, 394-401.	1.4	192
146	Distinguishing common and task-specific processes in word identification: A matter of some moment?. Journal of Experimental Psychology: Learning Memory and Cognition, 2001, 27, 514-544.	0.7	91
147	A nonlinear regression approach to estimating signal detection models for rating data. Behavior Research Methods, 2001, 33, 108-114.	1.3	7
148	Response-Time Dynamics: Evidence for Linear and Low-Dimensional Nonlinear Structure in Human Choice Sequences. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 2001, 54, 805-840.	2.3	28
149	Factors affecting progress of Australian and international students in a problem-based learning medical course. Medical Education, 2000, 34, 708-715.	1.1	43
150	The power law repealed: The case for an exponential law of practice. Psychonomic Bulletin and Review, 2000, 7, 185-207.	1.4	537
151	The Law of Practice and localist neural network models. Behavioral and Brain Sciences, 2000, 23, 479-480.	0.4	4
152	Neuromorphic models of response time. Australian Journal of Psychology, 1998, 50, 157-164.	1.4	36
153	Do junior doctors feel they are prepared for hospital practice? A study of graduates from traditional and non-traditional medical schools. Medical Education, 1998, 32, 19-24.	1.1	90
154	RTSYS: A DOS application for the analysis of reaction time data. Behavior Research Methods, 1996, 28, 427-445.	1.3	80
155	Representation and selection of relative position.. Journal of Experimental Psychology: Human Perception and Performance, 1993, 19, 488-516.	0.7	17
156	Representation and selection of relative position. Journal of Experimental Psychology: Human Perception and Performance, 1993, 19, 488-516.	0.7	26
157	Response time distributions and the Stroop task: A test of the Cohen, Dunbar, and McClelland (1990) model.. Journal of Experimental Psychology: Human Perception and Performance, 1992, 18, 872-882.	0.7	39
158	Response time distributions and the Stroop Task: a test of the Cohen, Dunbar, and McClelland (1990) model. Journal of Experimental Psychology: Human Perception and Performance, 1992, 18, 872-82.	0.7	37
159	Analysis of response time distributions: An example using the Stroop task.. Psychological Bulletin, 1991, 109, 340-347.	5.5	421
160	Is unbounded visual search intractable?. Behavioral and Brain Sciences, 1990, 13, 449-449.	0.4	1
161	Screen control and timing routines for the IBM microcomputer family using a high-level language. Behavior Research Methods, 1988, 20, 289-297.	1.3	57
162	The Limits of Marginality. Computational Brain & Behavior, 0, , 1.	0.9	2

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163	Response-Time Dynamics: Evidence for Linear and Low-Dimensional Nonlinear Structure in Human Choice Sequences. , 0, .		5
164	Chapter 16. Time course differences between bilinguals and monolinguals in the Simon task*. Bilingual Processing and Acquisition, 0, , 397-426.	0.2	0