

Roger Ratcliff

List of Publications by Year in descending order

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149
papers

27,313
citations

12322

69
h-index

9334

143
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150
all docs

150
docs citations

150
times ranked

10808
citing authors

#	ARTICLE	IF	CITATIONS
1	A theory of memory retrieval.. Psychological Review, 1978, 85, 59-108.	2.7	3,314
2	The Diffusion Decision Model: Theory and Data for Two-Choice Decision Tasks. Neural Computation, 2008, 20, 873-922.	1.3	2,126
3	Methods for dealing with reaction time outliers.. Psychological Bulletin, 1993, 114, 510-532.	5.5	1,741
4	Modeling Response Times for Two-Choice Decisions. Psychological Science, 1998, 9, 347-356.	1.8	1,160
5	A Comparison of Sequential Sampling Models for Two-Choice Reaction Time.. Psychological Review, 2004, 111, 333-367.	2.7	1,014
6	Diffusion Decision Model: Current Issues and History. Trends in Cognitive Sciences, 2016, 20, 260-281.	4.0	993
7	Psychology and neurobiology of simple decisions. Trends in Neurosciences, 2004, 27, 161-168.	4.2	917
8	Group reaction time distributions and an analysis of distribution statistics.. Psychological Bulletin, 1979, 86, 446-461.	5.5	901
9	Estimating parameters of the diffusion model: Approaches to dealing with contaminant reaction times and parameter variability. Psychonomic Bulletin and Review, 2002, 9, 438-481.	1.4	665
10	Connectionist models of recognition memory: Constraints imposed by learning and forgetting functions.. Psychological Review, 1990, 97, 285-308.	2.7	615
11	Connectionist and diffusion models of reaction time.. Psychological Review, 1999, 106, 261-300.	2.7	528
12	A Diffusion Model Account of the Lexical Decision Task.. Psychological Review, 2004, 111, 159-182.	2.7	446
13	Testing global memory models using ROC curves.. Psychological Review, 1992, 99, 518-535.	2.7	394
14	Retrieval processes in recognition memory.. Psychological Review, 1976, 83, 190-214.	2.7	360
15	Neural Representation of Task Difficulty and Decision Making during Perceptual Categorization: A Timing Diagram. Journal of Neuroscience, 2006, 26, 8965-8975.	1.7	345
16	A Comparison of Macaque Behavior and Superior Colliculus Neuronal Activity to Predictions From Models of Two-Choice Decisions. Journal of Neurophysiology, 2003, 90, 1392-1407.	0.9	333
17	Bias in the Brain: A Diffusion Model Analysis of Prior Probability and Potential Payoff. Journal of Neuroscience, 2012, 32, 2335-2343.	1.7	333
18	The overlap model: A model of letter position coding.. Psychological Review, 2008, 115, 577-600.	2.7	310

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19	Estimation and interpretation of 1/ff± noise in human cognition. <i>Psychonomic Bulletin and Review</i> , 2004, 11, 579-615.	1.4	285
20	The effects of aging on the speed-accuracy compromise: Boundary optimality in the diffusion model.. <i>Psychology and Aging</i> , 2010, 25, 377-390.	1.4	281
21	A model of the go/no-go task.. <i>Journal of Experimental Psychology: General</i> , 2007, 136, 389-413.	1.5	278
22	A diffusion model account of response time and accuracy in a brightness discrimination task: Fitting real data and failing to fit fake but plausible data. <i>Psychonomic Bulletin and Review</i> , 2002, 9, 278-291.	1.4	273
23	The effects of aging on reaction time in a signal detection task.. <i>Psychology and Aging</i> , 2001, 16, 323-341.	1.4	261
24	Theoretical interpretations of the speed and accuracy of positive and negative responses.. <i>Psychological Review</i> , 1985, 92, 212-225.	2.7	258
25	Quality of evidence for perceptual decision making is indexed by trial-to-trial variability of the EEG. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6539-6544.	3.3	254
26	An integrated theory of attention and decision making in visual signal detection.. <i>Psychological Review</i> , 2009, 116, 283-317.	2.7	252
27	A Diffusion Model Analysis of the Effects of Aging in the Lexical-Decision Task.. <i>Psychology and Aging</i> , 2004, 19, 278-289.	1.4	243
28	A diffusion model account of criterion shifts in the lexical decision task. <i>Journal of Memory and Language</i> , 2008, 58, 140-159.	1.1	225
29	A theory of order relations in perceptual matching.. <i>Psychological Review</i> , 1981, 88, 552-572.	2.7	220
30	Continuous versus discrete information processing: Modeling accumulation of partial information.. <i>Psychological Review</i> , 1988, 95, 238-255.	2.7	220
31	Dual Diffusion Model for Single-Cell Recording Data From the Superior Colliculus in a Brightness-Discrimination Task. <i>Journal of Neurophysiology</i> , 2007, 97, 1756-1774.	0.9	211
32	Revisiting the Evidence for Collapsing Boundaries and Urgency Signals in Perceptual Decision-Making. <i>Journal of Neuroscience</i> , 2015, 35, 2476-2484.	1.7	208
33	Individual differences, aging, and IQ in two-choice tasks. <i>Cognitive Psychology</i> , 2010, 60, 127-157.	0.9	203
34	Diffusion models of the flanker task: Discrete versus gradual attentional selection. <i>Cognitive Psychology</i> , 2011, 63, 210-238.	0.9	203
35	A diffusion model analysis of the effects of aging on recognition memory. <i>Journal of Memory and Language</i> , 2004, 50, 408-424.	1.1	199
36	Modeling confidence and response time in recognition memory.. <i>Psychological Review</i> , 2009, 116, 59-83.	2.7	198

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37	A counter model for implicit priming in perceptual word identification.. Psychological Review, 1997, 104, 319-343.	2.7	182
38	MEMORY-BASED LANGUAGE PROCESSING: Psycholinguistic Research in the 1990s. Annual Review of Psychology, 1998, 49, 25-42.	9.9	172
39	A diffusion model account of masking in two-choice letter identification.. Journal of Experimental Psychology: Human Perception and Performance, 2000, 26, 127-140.	0.7	170
40	Reinforcement-Based Decision Making in Corticostriatal Circuits: Mutual Constraints by Neurocomputational and Diffusion Models. Neural Computation, 2012, 24, 1186-1229.	1.3	169
41	Using diffusion models to understand clinical disorders. Journal of Mathematical Psychology, 2010, 54, 39-52.	1.0	167
42	A diffusion model analysis of the effects of aging on letter discrimination.. Psychology and Aging, 2003, 18, 415-429.	1.4	160
43	Modeling response signal and response time data. Cognitive Psychology, 2006, 53, 195-237.	0.9	156
44	Time course of item and associative information: Implications for global memory models.. Journal of Experimental Psychology: Learning Memory and Cognition, 1989, 15, 846-858.	0.7	153
45	Diffusion model for one-choice reaction-time tasks and the cognitive effects of sleep deprivation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11285-11290.	3.3	148
46	A diffusion model analysis of the effects of aging on brightness discrimination. Perception & Psychophysics, 2003, 65, 523-535.	2.3	145
47	Individual differences and fitting methods for the two-choice diffusion model of decision making.. Decision, 2015, 2, 237-279.	0.4	140
48	Sleep deprivation affects multiple distinct cognitive processes. Psychonomic Bulletin and Review, 2009, 16, 742-751.	1.4	138
49	Individual differences in visual word recognition: Insights from the English Lexicon Project.. Journal of Experimental Psychology: Human Perception and Performance, 2012, 38, 53-79.	0.7	134
50	Explicitly modeling the effects of aging on response time. Psychonomic Bulletin and Review, 2000, 7, 1-25.	1.4	133
51	Empirical generality of data from recognition memory receiver-operating characteristic functions and implications for the global memory models.. Journal of Experimental Psychology: Learning Memory and Cognition, 1994, 20, 763-785.	0.7	131
52	Attention orienting and the time course of perceptual decisions: response time distributions with masked and unmasked displays. Vision Research, 2004, 44, 1297-1320.	0.7	131
53	Effects of aging and IQ on item and associative memory.. Journal of Experimental Psychology: General, 2011, 140, 464-487.	1.5	130
54	Assessing model mimicry using the parametric bootstrap. Journal of Mathematical Psychology, 2004, 48, 28-50.	1.0	127

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55	Aging and individual differences in rapid two-choice decisions. <i>Psychonomic Bulletin and Review</i> , 2006, 13, 626-635.	1.4	125
56	Modeling confidence judgments, response times, and multiple choices in decision making: Recognition memory and motion discrimination.. <i>Psychological Review</i> , 2013, 120, 697-719.	2.7	124
57	Memory connections between thematically similar episodes.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1986, 12, 220-231.	0.7	111
58	A note on modeling accumulation of information when the rate of accumulation changes over time. <i>Journal of Mathematical Psychology</i> , 1980, 21, 178-184.	1.0	110
59	Statistical mimicking of reaction time data: Single-process models, parameter variability, and mixtures. <i>Psychonomic Bulletin and Review</i> , 1995, 2, 20-54.	1.4	103
60	Aging, practice, and perceptual tasks: A diffusion model analysis.. <i>Psychology and Aging</i> , 2006, 21, 353-371.	1.4	103
61	Application of the diffusion model to two-choice tasks for adults 75-90 years old.. <i>Psychology and Aging</i> , 2007, 22, 56-66.	1.4	100
62	Process dissociation, single-process theories, and recognition memory.. <i>Journal of Experimental Psychology: General</i> , 1995, 124, 352-374.	1.5	95
63	Similarity information versus relational information: Differences in the time course of retrieval. <i>Cognitive Psychology</i> , 1989, 21, 139-155.	0.9	94
64	Modeling reaction time and accuracy of multiple-alternative decisions. <i>Attention, Perception, and Psychophysics</i> , 2010, 72, 246-273.	0.7	94
65	Children Are Not Like Older Adults: A Diffusion Model Analysis of Developmental Changes in Speeded Responses. <i>Child Development</i> , 2012, 83, 367-381.	1.7	92
66	Evaluating the unequal-variance and dual-process explanations of zROC slopes with response time data and the diffusion model. <i>Cognitive Psychology</i> , 2012, 64, 1-34.	0.9	90
67	Anxiety enhances threat processing without competition among multiple inputs: A diffusion model analysis.. <i>Emotion</i> , 2010, 10, 662-677.	1.5	87
68	Perceptual discrimination in static and dynamic noise: The temporal relation between perceptual encoding and decision making.. <i>Journal of Experimental Psychology: General</i> , 2010, 139, 70-94.	1.5	85
69	Conceptual combinations and relational contexts in free association and in priming in lexical decision and naming. <i>Psychonomic Bulletin and Review</i> , 1995, 2, 527-533.	1.4	83
70	Parameter variability and distributional assumptions in the diffusion model.. <i>Psychological Review</i> , 2013, 120, 281-292.	2.7	72
71	A diffusion model account of masked versus unmasked priming: Are they qualitatively different?. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2013, 39, 1731-1740.	0.7	68
72	Dysphoria and memory for emotional material: A diffusion-model analysis. <i>Cognition and Emotion</i> , 2009, 23, 181-205.	1.2	67

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73	Action video games do not improve the speed of information processing in simple perceptual tasks.. Journal of Experimental Psychology: General, 2014, 143, 1794-1805.	1.5	67
74	Measuring psychometric functions with the diffusion model.. Journal of Experimental Psychology: Human Perception and Performance, 2014, 40, 870-888.	0.7	66
75	Modeling individual differences in response time and accuracy in numeracy. Cognition, 2015, 137, 115-136.	1.1	65
76	Speed and accuracy in the processing of false statements about semantic information.. Journal of Experimental Psychology: Learning Memory and Cognition, 1982, 8, 16-36.	0.7	63
77	A comparison of four methods for simulating the diffusion process. Behavior Research Methods, 2001, 33, 443-456.	1.3	63
78	Age-related differences in diffusion model boundary optimality with both trial-limited and time-limited tasks. Psychonomic Bulletin and Review, 2012, 19, 139-145.	1.4	63
79	Putting noise into neurophysiological models of simple decision making. Nature Neuroscience, 2001, 4, 336-336.	7.1	60
80	A diffusion model explanation of the worst performance rule for reaction time and IQ. Intelligence, 2008, 36, 10-17.	1.6	60
81	Comparing fixed and collapsing boundary versions of the diffusion model. Journal of Mathematical Psychology, 2016, 73, 59-79.	1.0	60
82	Making the connection: Generalized knowledge structures in story understanding. Journal of Memory and Language, 1989, 28, 711-734.	1.1	58
83	Modeling Regularities in Response Time and Accuracy Data With the Diffusion Model. Current Directions in Psychological Science, 2015, 24, 458-470.	2.8	56
84	Modeling aging effects on two-choice tasks: Response signal and response time data.. Psychology and Aging, 2008, 23, 900-916.	1.4	51
85	Influence of Branding on Preference-Based Decision Making. Psychological Science, 2013, 24, 1208-1215.	1.8	50
86	Using the Diffusion Model to Explain Cognitive Deficits in Attention Deficit Hyperactivity Disorder. Journal of Abnormal Child Psychology, 2017, 45, 57-68.	3.5	49
87	The EZ diffusion method: Too EZ?. Psychonomic Bulletin and Review, 2008, 15, 1218-1228.	1.4	48
88	Modeling 2-alternative forced-choice tasks: Accounting for both magnitude and difference effects. Cognitive Psychology, 2018, 103, 1-22.	0.9	47
89	Contextually relevant aspects of meaning.. Journal of Experimental Psychology: Learning Memory and Cognition, 1988, 14, 331-343.	0.7	46
90	Validating the unequal-variance assumption in recognition memory using response time distributions instead of ROC functions: A diffusion model analysis. Journal of Memory and Language, 2014, 70, 36-52.	1.1	46

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91	Modeling individual differences in the go/no-go task with a diffusion model.. <i>Decision</i> , 2018, 5, 42-62.	0.4	46
92	Dissociable perceptual-learning mechanisms revealed by diffusion-model analysis. <i>Psychonomic Bulletin and Review</i> , 2011, 18, 490-497.	1.4	45
93	Responding to nonwords in the lexical decision task: Insights from the English Lexicon Project.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2015, 41, 597-613.	0.7	44
94	Beyond ROC curvature: Strength effects and response time data support continuous-evidence models of recognition memory. <i>Journal of Memory and Language</i> , 2012, 67, 389-406.	1.1	42
95	Modeling simple driving tasks with a one-boundary diffusion model. <i>Psychonomic Bulletin and Review</i> , 2014, 21, 577-589.	1.4	42
96	Modeling perceptual discrimination in dynamic noise: Time-changed diffusion and release from inhibition. <i>Journal of Mathematical Psychology</i> , 2014, 59, 95-113.	1.0	41
97	Discriminating evidence accumulation from urgency signals in speeded decision making. <i>Journal of Neurophysiology</i> , 2015, 114, 40-47.	0.9	41
98	A diffusion model account of normal and impaired readers. <i>Brain and Cognition</i> , 2004, 55, 374-382.	0.8	40
99	Evaluating methods for approximating stochastic differential equations. <i>Journal of Mathematical Psychology</i> , 2006, 50, 402-410.	1.0	40
100	Internal and external sources of variability in perceptual decision-making.. <i>Psychological Review</i> , 2018, 125, 33-46.	2.7	40
101	A single trial analysis of EEG in recognition memory: Tracking the neural correlates of memory strength. <i>Neuropsychologia</i> , 2016, 93, 128-141.	0.7	35
102	A diffusion model analysis of episodic recognition in preclinical individuals with a family history for Alzheimer's disease: The adult children study.. <i>Neuropsychologia</i> , 2016, 30, 225-238.	1.0	34
103	Decision making on spatially continuous scales.. <i>Psychological Review</i> , 2018, 125, 888-935.	2.7	34
104	Modeling numerosity representation with an integrated diffusion model.. <i>Psychological Review</i> , 2018, 125, 183-217.	2.7	32
105	Aging and IQ effects on associative recognition and priming in item recognition. <i>Journal of Memory and Language</i> , 2012, 66, 416-437.	1.1	31
106	Aging effects in item and associative recognition memory for pictures and words.. <i>Psychology and Aging</i> , 2015, 30, 669-674.	1.4	29
107	Two dimensions are not better than one: STREAK and the univariate signal detection model of remember/know performance. <i>Journal of Memory and Language</i> , 2008, 59, 169-182.	1.1	28
108	Aging and predicting inferences: A diffusion model analysis. <i>Journal of Memory and Language</i> , 2013, 68, 240-254.	1.1	27

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109	Computational and Process Models of Decision Making in Psychology and Behavioral Economics. , 2014, , 35-47.		27
110	A diffusion model analysis of sustained attention in children with attention deficit hyperactivity disorder.. Neuropsychology, 2020, 34, 641-653.	1.0	26
111	The diffusion model is not a deterministic growth model: Comment on Jones and Dzhafarov (2014).. Psychological Review, 2014, 121, 679-688.	2.7	25
112	Pointing, looking at, and pressing keys: A diffusion model account of response modality.. Journal of Experimental Psychology: Human Perception and Performance, 2015, 41, 1515-1523.	0.7	24
113	Inhibition in Superior Colliculus Neurons in a Brightness Discrimination Task?. Neural Computation, 2011, 23, 1790-1820.	1.3	23
114	The effects of sleep deprivation on item and associative recognition memory.. Journal of Experimental Psychology: Learning Memory and Cognition, 2018, 44, 193-208.	0.7	22
115	Analysis of group differences in processing speed: Where are the models of processing?. Psychonomic Bulletin and Review, 2004, 11, 755-769.	1.4	21
116	Modeling the effects of hypoglycemia on a two-choice task in adult humans.. Neuropsychology, 2010, 24, 652-660.	1.0	19
117	Improving neurocognitive testing using computational psychiatryâ€”A systematic review for ADHD.. Psychological Bulletin, 2021, 147, 169-231.	5.5	18
118	Modeling the effects of repetition and word frequency in perceptual identification. Psychonomic Bulletin and Review, 2000, 7, 713-717.	1.4	16
119	Modeling one-choice and two-choice driving tasks. Attention, Perception, and Psychophysics, 2015, 77, 2134-2144.	0.7	16
120	Individual differences in the components of childrenâ€™s and adultsâ€™ information processing for simple symbolic and non-symbolic numeric decisions. Journal of Experimental Child Psychology, 2016, 150, 48-71.	0.7	15
121	Ageing and response times: a comparison of sequential sampling models. , 2005, , 3-32.		15
122	Transcranial Direct Current Stimulation Does Not Influence the Speedâ€”Accuracy Tradeoff in Perceptual Decision-making: Evidence from Three Independent Studies. Journal of Cognitive Neuroscience, 2016, 28, 1283-1294.	1.1	14
123	Adults with poor reading skills: How lexical knowledge interacts with scores on standardized reading comprehension tests. Cognition, 2016, 146, 453-469.	1.1	12
124	Decision making in numeracy tasks with spatially continuous scales. Cognitive Psychology, 2020, 116, 101259.	0.9	12
125	Adults with poor reading skills, older adults, and college students: The meanings they understand during reading using a diffusion model analysis. Journal of Memory and Language, 2018, 102, 115-129.	1.1	11
126	Modeling the interaction of numerosity and perceptual variables with the diffusion model. Cognitive Psychology, 2020, 120, 101288.	0.9	11

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127	Do data from mechanical Turk subjects replicate accuracy, response time, and diffusion modeling results?. Behavior Research Methods, 2021, 53, 2302-2325.	2.3	11
128	Modeling confidence and response time in associative recognition. Journal of Memory and Language, 2016, 86, 60-96.	1.1	10
129	Modeling evidence accumulation decision processes using integral equations: Urgency-gating and collapsing boundaries.. Psychological Review, 2022, 129, 235-267.	2.7	10
130	Diffusion and Random Walk Processes. , 2015, , 395-401.		10
131	Effects of aging in a task-switch paradigm with the diffusion decision model.. Psychology and Aging, 2020, 35, 850-865.	1.4	10
132	Does response modality influence conflict? Modelling vocal and manual response Stroop interference.. Journal of Experimental Psychology: Learning Memory and Cognition, 2019, 45, 2098-2119.	0.7	10
133	Qualitative speed-accuracy tradeoff effects can be explained by a diffusion/fast-guess mixture model. Scientific Reports, 2021, 11, 15169.	1.6	9
134	Modeling Conditional Dependence of Response Accuracy and Response Time with the Diffusion Item Response Theory Model. Psychometrika, 2022, 87, 725-748.	1.2	9
135	Naïve Nonparametric Bootstrap Model Weights Are Biased. Biometrics, 2004, 60, 281-283.	0.8	8
136	Anxiety-related threat bias in recognition memory: the moderating effect of list composition and semantic-similarity effects. Cognition and Emotion, 2016, 30, 1446-1460.	1.2	8
137	Aging and confidence judgments in item recognition.. Journal of Experimental Psychology: Learning Memory and Cognition, 2018, 44, 1-23.	0.7	7
138	Discriminating memory disordered patients from controls using diffusion model parameters from recognition memory.. Journal of Experimental Psychology: General, 2022, 151, 1377-1393.	1.5	7
139	An inexpensive real-time microcomputer-based cognitive laboratory system. Behavior Research Methods, 1986, 18, 214-221.	1.3	5
140	Response time distributions.. , 2012, , 429-443.		4
141	Adults With Poor Reading Skills and the Inferences They Make During Reading. Scientific Studies of Reading, 2017, 21, 292-309.	1.3	4
142	A note on decomposition of sources of variability in perceptual decision-making. Journal of Mathematical Psychology, 2020, 98, 102431.	1.0	4
143	The effect of aging on decision-making while driving: A diffusion model analysis.. Psychology and Aging, 2022, 37, 441-455.	1.4	4
144	Using computers in empirical and theoretical work in cognitive psychology. Behavior Research Methods, 1994, 26, 94-106.	1.3	3

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145	Examining aging and numerosity using an integrated diffusion model.. Journal of Experimental Psychology: Learning Memory and Cognition, 2020, 46, 2128-2152.	0.7	2
146	Diffusion Models of Memory and Decision Making. , 2017, , 227-241.		1
147	Estimating systematic and random sources of variability in perceptual decision-making: A reply to Evans, Tillman, & Wagenmakers (2020).. Psychological Review, 2021, 128, 988-994.	2.7	1
148	Two processes are not necessary to understand memory deficits. Behavioral and Brain Sciences, 2019, 42, e294.	0.4	1
149	Examining aging and numerosity using an integrated diffusion model. Journal of Experimental Psychology: Learning Memory and Cognition, 2020, 46, 2128-2152.	0.7	0