Roger Ratcliff

List of Publications by Citations

146 papers	21,117 citations	69 h-index	145 g-index
150 ext. papers	23,764 ext. citations	4.6 avg, IF	7.39 L-index

#	Paper	IF	Citations
146	A theory of memory retrieval.. *Psychological Review*, **1978**, 85, 59-108	6.3	2243
145	The diffusion decision model: theory and data for two-choice decision tasks. *Neural Computation*, **2008**, 20, 873-922	2.9	1567
144	Methods for dealing with reaction time outliers. *Psychological Bulletin*, **1993**, 114, 510-32	19.1	1498
143	Modeling Response Times for Two-Choice Decisions. *Psychological Science*, **1998**, 9, 347-356	7.9	920
142	A comparison of sequential sampling models for two-choice reaction time. *Psychological Review*, **2004**, 111, 333-67	6.3	839
141	Psychology and neurobiology of simple decisions. *Trends in Neurosciences*, **2004**, 27, 161-8	13.3	756
140	Group reaction time distributions and an analysis of distribution statistics.. *Psychological Bulletin*, **1979**, 86, 446-461	19.1	738
139	Diffusion Decision Model: Current Issues and History. *Trends in Cognitive Sciences*, **2016**, 20, 260-281	14	549
138	Estimating parameters of the diffusion model: approaches to dealing with contaminant reaction times and parameter variability. *Psychonomic Bulletin and Review*, **2002**, 9, 438-81	4.1	529
137	Connectionist and diffusion models of reaction time. *Psychological Review*, **1999**, 106, 261-300	6.3	478
136	Connectionist models of recognition memory: constraints imposed by learning and forgetting functions. *Psychological Review*, **1990**, 97, 285-308	6.3	421
135	A diffusion model account of the lexical decision task. *Psychological Review*, **2004**, 111, 159-82	6.3	388
134	Testing global memory models using ROC curves. *Psychological Review*, **1992**, 99, 518-35	6.3	348
133	A comparison of macaque behavior and superior colliculus neuronal activity to predictions from models of two-choice decisions. *Journal of Neurophysiology*, **2003**, 90, 1392-407	3.2	282
132	Neural representation of task difficulty and decision making during perceptual categorization: a timing diagram. *Journal of Neuroscience*, **2006**, 26, 8965-75	6.6	266
131	The overlap model: a model of letter position coding. *Psychological Review*, **2008**, 115, 577-600	6.3	260
130	Estimation and interpretation of 1/falpha noise in human cognition. *Psychonomic Bulletin and Review*, **2004**, 11, 579-615	4.1	243

129	Bias in the brain: a diffusion model analysis of prior probability and potential payoff. *Journal of Neuroscience*, **2012**, 32, 2335-43	6.6	236
128	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. *Psychonomic Bulletin and Review*, **2002**, 9, 278-91	4.1	234
127	Retrieval processes in recognition memory.. *Psychological Review*, **1976**, 83, 190-214	6.3	232
126	Theoretical interpretations of the speed and accuracy of positive and negative responses.. *Psychological Review*, **1985**, 92, 212-225	6.3	225
125	The effects of aging on reaction time in a signal detection task.. *Psychology and Aging*, **2001**, 16, 323-341	3.6	212
124	A model of the go/no-go task. *Journal of Experimental Psychology: General*, **2007**, 136, 389-413	4.7	205
123	The effects of aging on the speed-accuracy compromise: Boundary optimality in the diffusion model. *Psychology and Aging*, **2010**, 25, 377-90	3.6	204
122	Quality of evidence for perceptual decision making is indexed by trial-to-trial variability of the EEG. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 6539-44	11.5	202
121	An integrated theory of attention and decision making in visual signal detection. *Psychological Review*, **2009**, 116, 283-317	6.3	201
120	A diffusion model analysis of the effects of aging in the lexical-decision task. *Psychology and Aging*, **2004**, 19, 278-89	3.6	200
119	A Diffusion Model Account of Criterion Shifts in the Lexical Decision Task. *Journal of Memory and Language*, **2008**, 58, 140-159	3.8	187
118	Continuous versus discrete information processing modeling accumulation of partial information. *Psychological Review*, **1988**, 95, 238-55	6.3	179
117	Dual diffusion model for single-cell recording data from the superior colliculus in a brightness-discrimination task. *Journal of Neurophysiology*, **2007**, 97, 1756-74	3.2	173
116	A diffusion model analysis of the effects of aging on recognition memory. *Journal of Memory and Language*, **2004**, 50, 408-424	3.8	173
115	Individual differences, aging, and IQ in two-choice tasks. *Cognitive Psychology*, **2010**, 60, 127-57	3.1	170
114	Modeling confidence and response time in recognition memory. *Psychological Review*, **2009**, 116, 59-83	6.3	161
113	Diffusion models of the flanker task: discrete versus gradual attentional selection. *Cognitive Psychology*, **2011**, 63, 210-38	3.1	157
112	A counter model for implicit priming in perceptual word identification. *Psychological Review*, **1997**, 104, 319-43	6.3	155

111	A diffusion model account of masking in two-choice letter identification.. *Journal of Experimental Psychology: Human Perception and Performance*, **2000**, 26, 127-140	2.6	149
110	Time course of item and associative information: Implications for global memory models.. *Journal of Experimental Psychology: Learning Memory and Cognition*, **1989**, 15, 846-858	2.2	147
109	A theory of order relations in perceptual matching.. *Psychological Review*, **1981**, 88, 552-572	6.3	147
108	Revisiting the evidence for collapsing boundaries and urgency signals in perceptual decision-making. *Journal of Neuroscience*, **2015**, 35, 2476-84	6.6	145
107	Using diffusion models to understand clinical disorders. *Journal of Mathematical Psychology*, **2010**, 54, 39-52	1.2	144
106	Modeling response signal and response time data. *Cognitive Psychology*, **2006**, 53, 195-237	3.1	140
105	Reinforcement-based decision making in corticostriatal circuits: mutual constraints by neurocomputational and diffusion models. *Neural Computation*, **2012**, 24, 1186-229	2.9	132
104	A diffusion model analysis of the effects of aging on letter discrimination. *Psychology and Aging*, **2003**, 18, 415-29	3.6	132
103	A diffusion model analysis of the effects of aging on brightness discrimination. *Perception & Psychophysics*, **2003**, 65, 523-35		126
102	Memory-based language processing: psycholinguistic research in the 1990s. *Annual Review of Psychology*, **1998**, 49, 25-42	26.1	126
101	Sleep deprivation affects multiple distinct cognitive processes. *Psychonomic Bulletin and Review*, **2009**, 16, 742-51	4.1	115
100	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, 11285-90	11.5	112
99	Attention orienting and the time course of perceptual decisions: response time distributions with masked and unmasked displays. *Vision Research*, **2004**, 44, 1297-320	2.1	111
98	Aging and individual differences in rapid two-choice decisions. *Psychonomic Bulletin and Review*, **2006**, 13, 626-35	4.1	110
97	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	2.2	109
96	Effects of aging and IQ on item and associative memory. *Journal of Experimental Psychology: General*, **2011**, 140, 464-87	4.7	105
95	Explicitly modeling the effects of aging on response time. *Psychonomic Bulletin and Review*, **2000**, 7, 1-25	4.1	105
94	Individual differences in visual word recognition: insights from the English Lexicon Project. *Journal of Experimental Psychology: Human Perception and Performance*, **2012**, 38, 53-79	2.6	102

93	Individual Differences and Fitting Methods for the Two-Choice Diffusion Model of Decision Making. *Decision*, **2015**, 2015,	1.9	101
92	Assessing model mimicry using the parametric bootstrap. *Journal of Mathematical Psychology*, **2004**, 48, 28-50	1.2	100
91	A note on modeling accumulation of information when the rate of accumulation changes over time. *Journal of Mathematical Psychology*, **1980**, 21, 178-184	1.2	96
90	Modeling confidence judgments, response times, and multiple choices in decision making: recognition memory and motion discrimination. *Psychological Review*, **2013**, 120, 697-719	6.3	93
89	Memory connections between thematically similar episodes.. *Journal of Experimental Psychology: Learning Memory and Cognition*, **1986**, 12, 220-231	2.2	91
88	Process dissociation, single-process theories, and recognition memory.. *Journal of Experimental Psychology: General*, **1995**, 124, 352-374	4.7	90
87	Aging, practice, and perceptual tasks: a diffusion model analysis. *Psychology and Aging*, **2006**, 21, 353-71	3.6	89
86	Application of the diffusion model to two-choice tasks for adults 75-90 years old. *Psychology and Aging*, **2007**, 22, 56-66	3.6	86
85	Statistical mimicking of reaction time data: Single-process models, parameter variability, and mixtures. *Psychonomic Bulletin and Review*, **1995**, 2, 20-54	4.1	80
84	Evaluating the unequal-variance and dual-process explanations of zROC slopes with response time data and the diffusion model. *Cognitive Psychology*, **2012**, 64, 1-34	3.1	75
83	Similarity information versus relational information: differences in the time course of retrieval. *Cognitive Psychology*, **1989**, 21, 139-55	3.1	74
82	Children are not like older adults: a diffusion model analysis of developmental changes in speeded responses. *Child Development*, **2012**, 83, 367-81	4.9	73
81	Anxiety enhances threat processing without competition among multiple inputs: a diffusion model analysis. *Emotion*, **2010**, 10, 662-77	4.1	72
80	Modeling reaction time and accuracy of multiple-alternative decisions. *Attention, Perception, and Psychophysics*, **2010**, 72, 246-73	2	71
79	Conceptual combinations and relational contexts in free association and in priming in lexical decision and naming. *Psychonomic Bulletin and Review*, **1995**, 2, 527-33	4.1	70
78	Perceptual discrimination in static and dynamic noise: the temporal relation between perceptual encoding and decision making. *Journal of Experimental Psychology: General*, **2010**, 139, 70-94	4.7	69
77	Measuring psychometric functions with the diffusion model. *Journal of Experimental Psychology: Human Perception and Performance*, **2014**, 40, 870-88	2.6	54
76	A comparison of four methods for simulating the diffusion process. *Behavior Research Methods*, **2001**, 33, 443-56		54

75	A diffusion model account of masked versus unmasked priming: are they qualitatively different?. *Journal of Experimental Psychology: Human Perception and Performance*, **2013**, 39, 1731-40	2.6	53
74	Dysphoria and memory for emotional material: A diffusion-model analysis. *Cognition and Emotion*, **2009**, 23, 181-205	2.3	53
73	Putting noise into neurophysiological models of simple decision making. *Nature Neuroscience*, **2001**, 4, 336-7	25.5	53
72	Making the connection: Generalized knowledge structures in story understanding. *Journal of Memory and Language*, **1989**, 28, 711-734	3.8	52
71	Action video games do not improve the speed of information processing in simple perceptual tasks. *Journal of Experimental Psychology: General*, **2014**, 143, 1794-805	4.7	51
70	Age-related differences in diffusion model boundary optimality with both trial-limited and time-limited tasks. *Psychonomic Bulletin and Review*, **2012**, 19, 139-45	4.1	51
69	A diffusion model explanation of the worst performance rule for reaction time and IQ. *Intelligence*, **2008**, 36, 10-17	3	51
68	Parameter variability and distributional assumptions in the diffusion model. *Psychological Review*, **2013**, 120, 281-92	6.3	50
67	Speed and accuracy in the processing of false statements about semantic information.. *Journal of Experimental Psychology: Learning Memory and Cognition*, **1982**, 8, 16-36	2.2	49
66	Modeling individual differences in response time and accuracy in numeracy. *Cognition*, **2015**, 137, 115-136	3.5	46
65	Contextually relevant aspects of meaning.. *Journal of Experimental Psychology: Learning Memory and Cognition*, **1988**, 14, 331-343	2.2	46
64	The EZ diffusion method: too EZ?. *Psychonomic Bulletin and Review*, **2008**, 15, 1218-28	4.1	41
63	Modeling Regularities in Response Time and Accuracy Data with the Diffusion Model. *Current Directions in Psychological Science*, **2015**, 24, 458-470	6.5	40
62	Beyond ROC curvature: Strength effects and response time data support continuous-evidence models of recognition memory. *Journal of Memory and Language*, **2012**, 67, 389-406	3.8	37
61	A diffusion model account of normal and impaired readers. *Brain and Cognition*, **2004**, 55, 374-82	2.7	37
60	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	3.8	36
59	Modeling aging effects on two-choice tasks: response signal and response time data. *Psychology and Aging*, **2008**, 23, 900-16	3.6	36
58	Comparing fixed and collapsing boundary versions of the diffusion model. *Journal of Mathematical Psychology*, **2016**, 73, 59-79	1.2	35

57	Discriminating evidence accumulation from urgency signals in speeded decision making. *Journal of Neurophysiology*, **2015**, 114, 40-7	3.2	34
56	Using the Diffusion Model to Explain Cognitive Deficits in Attention Deficit Hyperactivity Disorder. *Journal of Abnormal Child Psychology*, **2017**, 45, 57-68	4	33
55	Responding to nonwords in the lexical decision task: Insights from the English Lexicon Project. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2015**, 41, 597-613	2.2	33
54	Influence of branding on preference-based decision making. *Psychological Science*, **2013**, 24, 1208-15	7.9	33
53	Modeling perceptual discrimination in dynamic noise: Time-changed diffusion and release from inhibition. *Journal of Mathematical Psychology*, **2014**, 59, 95-113	1.2	31
52	Modeling simple driving tasks with a one-boundary diffusion model. *Psychonomic Bulletin and Review*, **2014**, 21, 577-89	4.1	30
51	Dissociable perceptual-learning mechanisms revealed by diffusion-model analysis. *Psychonomic Bulletin and Review*, **2011**, 18, 490-7	4.1	30
50	Evaluating methods for approximating stochastic differential equations. *Journal of Mathematical Psychology*, **2006**, 50, 402-410	1.2	28
49	Two Dimensions Are Not Better than One: STREAK and the Univariate Signal Detection Model of Remember/Know Performance. *Journal of Memory and Language*, **2008**, 59, 169-182	3.8	27
48	Aging and IQ effects on associative recognition and priming in item recognition. *Journal of Memory and Language*, **2012**, 66, 416-437	3.8	26
47	Aging and Predicting Inferences: A Diffusion Model Analysis. *Journal of Memory and Language*, **2013**, 68, 240-254	3.8	25
46	Modeling Individual Differences in the Go/No-go Task with a Diffusion Model. *Decision*, **2018**, 5, 42-62	1.9	25
45	A single trial analysis of EEG in recognition memory: Tracking the neural correlates of memory strength. *Neuropsychologia*, **2016**, 93, 128-141	3.2	25
44	Modeling 2-alternative forced-choice tasks: Accounting for both magnitude and difference effects. *Cognitive Psychology*, **2018**, 103, 1-22	3.1	23
43	A diffusion model analysis of episodic recognition in preclinical individuals with a family history for Alzheimer's disease: The adult children study. *Neuropsychology*, **2016**, 30, 225-38	3.8	23
42	Aging effects in item and associative recognition memory for pictures and words. *Psychology and Aging*, **2015**, 30, 669-74	3.6	22
41	The diffusion model is not a deterministic growth model: comment on Jones and Dzhafarov (2014). *Psychological Review*, **2014**, 121, 679-88	6.3	22
40	Internal and external sources of variability in perceptual decision-making. *Psychological Review*, **2018**, 125, 33-46	6.3	22

39	Modeling numerosity representation with an integrated diffusion model. *Psychological Review*, **2018**, 125, 183-217	6.3	22
38	Inhibition in superior colliculus neurons in a brightness discrimination task?. *Neural Computation*, **2011**, 23, 1790-820	2.9	19
37	Modeling the effects of hypoglycemia on a two-choice task in adult humans. *Neuropsychology*, **2010**, 24, 652-60	3.8	19
36	Analysis of group differences in processing speed: where are the models of processing?. *Psychonomic Bulletin and Review*, **2004**, 11, 755-69	4.1	19
35	Decision making on spatially continuous scales. *Psychological Review*, **2018**, 125, 888-935	6.3	15
34	Pointing, looking at, and pressing keys: A diffusion model account of response modality. *Journal of Experimental Psychology: Human Perception and Performance*, **2015**, 41, 1515-23	2.6	14
33	Modeling the effects of repetition and word frequency in perceptual identification. *Psychonomic Bulletin and Review*, **2000**, 7, 713-7	4.1	14
32	A diffusion model analysis of sustained attention in children with attention deficit hyperactivity disorder. *Neuropsychology*, **2020**, 34, 641-653	3.8	14
31	Computational and Process Models of Decision Making in Psychology and Behavioral Economics **2014**, 35-47		13
30	Individual differences in the components of children and adults information processing for simple symbolic and non-symbolic numeric decisions. *Journal of Experimental Child Psychology*, **2016**, 150, 48-71	2.3	12
29	Adults with poor reading skills: How lexical knowledge interacts with scores on standardized reading comprehension tests. *Cognition*, **2016**, 146, 453-69	3.5	11
28	The effects of sleep deprivation on item and associative recognition memory. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2018**, 44, 193-208	2.2	11
27	Modeling one-choice and two-choice driving tasks. *Attention, Perception, and Psychophysics*, **2015**, 77, 2134-44	2	9
26	Aging and response times: a comparison of sequential sampling models **2005**, 3-32		9
25	Transcranial Direct Current Stimulation Does Not Influence the Speed-Accuracy Tradeoff in Perceptual Decision-making: Evidence from Three Independent Studies. *Journal of Cognitive Neuroscience*, **2016**, 28, 1283-94	3.1	9
24	Modeling confidence and response time in associative recognition. *Journal of Memory and Language*, **2016**, 86, 60-96	3.8	8
23	Naïve nonparametric bootstrap model weights are biased. *Biometrics*, **2004**, 60, 281-3; author reply 283	1.8	7
22	Anxiety-related threat bias in recognition memory: the moderating effect of list composition and semantic-similarity effects. *Cognition and Emotion*, **2016**, 30, 1446-1460	2.3	6

21	Aging and confidence judgments in item recognition. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2018**, 44, 1-23	2.2	6
20	Modeling the interaction of numerosity and perceptual variables with the diffusion model. *Cognitive Psychology*, **2020**, 120, 101288	3.1	5
19	Decision making in numeracy tasks with spatially continuous scales. *Cognitive Psychology*, **2020**, 116, 101259	3.1	5
18	Does response modality influence conflict? Modelling vocal and manual response Stroop interference. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2019**, 45, 2098-2119	2.2	4
17	Do data from mechanical Turk subjects replicate accuracy, response time, and diffusion modeling results?. *Behavior Research Methods*, **2021**, 53, 2302-2325	6.1	4
16	Improving neurocognitive testing using computational psychiatry-A systematic review for ADHD. *Psychological Bulletin*, **2021**, 147, 169-231	19.1	4
15	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	3.8	4
14	Using computers in empirical and theoretical work in cognitive psychology. *Behavior Research Methods*, **1994**, 26, 94-106		3
13	An inexpensive real-time microcomputer-based cognitive laboratory system. *Behavior Research Methods*, **1986**, 18, 214-221		3
12	Adults With Poor Reading Skills and the Inferences They Make During Reading. *Scientific Studies of Reading*, **2017**, 21, 292-309	3.8	2
11	Modeling Conditional Dependence of Response Accuracy and Response Time with the Diffusion Item Response Theory Model.. *Psychometrika*, **2022**, 1	2.2	2
10	Effects of aging in a task-switch paradigm with the diffusion decision model. *Psychology and Aging*, **2020**, 35, 850-865	3.6	2
9	Diffusion Models of Memory and Decision Making **2017**, 227-241		1
8	Response time distributions. **2012**, 429-443		1
7	Examining aging and numerosity using an integrated diffusion model.. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2020**, 46, 2128-2152	2.2	1
6	Diffusion and Random Walk Processes **2015**, 395-401		1
5	Two processes are not necessary to understand memory deficits. *Behavioral and Brain Sciences*, **2020**, 42, e294	0.9	1
4	A Note on Decomposition of Sources of Variability in Perceptual Decision-making. *Journal of Mathematical Psychology*, **2020**, 98,	1.2	1

3	Qualitative speed-accuracy tradeoff effects can be explained by a diffusion/fast-guess mixture model. *Scientific Reports*, **2021**, 11, 15169	4.9	0
2	Estimating systematic and random sources of variability in perceptual decision-making: A reply to Evans, Tillman, & Wagenmakers (2020). *Psychological Review*, **2021**, 128, 988-994	6.3	0
1	Examining aging and numerosity using an integrated diffusion model. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2020**, 46, 2128-2152	2.2	