Hedderik van Rijn

List of Publications by Year
in descending order

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115 papers	8,356 citations	159358 30 h-index	53109 85 g-index
128 all docs	128 docs citations	128 times ranked	10797 citing authors

#	Article	IF	Citations
1	Estimating the reproducibility of psychological science. Science, 2015, 349, aac4716.	6.0	4,926
2	Pupil dilation deconvolution reveals the dynamics of attention at high temporal resolution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8456-8460.	3.3	256
3	An integrated theory of prospective time interval estimation: The role of cognition, attention, and learning.. Psychological Review, 2007, 114, 577-598.	2.7	179
4	The problem state: A cognitive bottleneck in multitasking.. Journal of Experimental Psychology: Learning Memory and Cognition, 2010, 36, 363-382.	0.7	132
5	Oscillatory multiplexing of neural population codes for interval timing and working memory. Neuroscience and Biobehavioral Reviews, 2015, 48, 160-185.	2.9	132
6	Contingent negative variation and its relation to time estimation: a theoretical evaluation. Frontiers in Integrative Neuroscience, 2011, 5, 91.	1.0	127
7	Decoupling Interval Timing and Climbing Neural Activity: A Dissociation between CNV and N1P2 Amplitudes. Journal of Neuroscience, 2014, 34, 2931-2939.	1.7	102
8	Analyzing the Time Course of Pupillometric Data. Trends in Hearing, 2019, 23, 233121651983248.	0.7	95
9	Single trial beta oscillations index time estimation. Neuropsychologia, 2015, 75, 381-389.	0.7	92
10	Trial-by-trial fluctuations in CNV amplitude reflect anticipatory adjustment of response caution. NeuroImage, 2014, 96, 95-105.	2.1	90
11	Dedicated Clock/Timing-Circuit Theories of Time Perception and Timed Performance. Advances in Experimental Medicine and Biology, 2014, 829, 75-99.	0.8	88
12	The effect of horizontal eye movements on free recall: A preregistered adversarial collaboration.. Journal of Experimental Psychology: General, 2015, 144, e1-e15.	1.5	83
13	How WM Load Influences Linguistic Processing in Adults: A Computational Model of Pronoun Interpretation in Discourse. Topics in Cognitive Science, 2013, 5, 564-580.	1.1	80
14	Stroop and pictureâ€"word interference are two sides of the same coin. Psychonomic Bulletin and Review, 2009, 16, 987-999.	1.4	75
15	Fronto-parietal network oscillations reveal relationship between working memory capacity and cognitive control. Frontiers in Human Neuroscience, 2014, 8, 761.	1.0	75
16	Traces of times past: Representations of temporal intervals in memory. Memory and Cognition, 2011, 39, 1546-1560.	0.9	73
17	What Makes Interruptions Disruptive?. , 2015, , .		70
18	A model for evidence accumulation in the lexical decision task. Cognitive Psychology, 2004, 48, 332-367.	0.9	69

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19	Slow Potentials in Time Estimation: The Role of Temporal Accumulation and Habituation. Frontiers in Integrative Neuroscience, 2011, 5, 48.	1.0	61
20	Timing of multiple overlapping intervals: How many clocks do we have?. Acta Psychologica, 2008, 129, 365-375.	0.7	59
21	Single-task fMRI overlap predicts concurrent multitasking interference. NeuroImage, 2014, 100, 60-74.	2.1	58
22	Validation of a simple response-time measure of listening effort. Journal of the Acoustical Society of America, 2015, 138, EL187-EL192.	0.5	52
23	Cognitive architectures and language acquisition: A case study in pronoun comprehension. Journal of Child Language, 2010, 37, 731-766.	0.8	51
24	Dissociable mechanisms underlying individual differences in visual working memory capacity. NeuroImage, 2014, 99, 197-206.	2.1	51
25	The Neural Correlates of Problem States: Testing fMRI Predictions of a Computational Model of Multitasking. PLoS ONE, 2010, 5, e12966.	1.1	46
26	Pupil Dilation Co-Varies with Memory Strength of Individual Traces in a Delayed Response Paired-Associate Task. PLoS ONE, 2012, 7, e51134.	1.1	46
27	RACE/A: An Architectural Account of the Interactions Between Learning, Task Control, and Retrieval Dynamics. Cognitive Science, 2012, 36, 62-101.	0.8	42
28	Subjective Duration as a Signature of Coding Efficiency: Emerging Links Among Stimulus Repetition, Predictive Coding, and Cortical GABA Levels. Timing & Time Perception Reviews, 2014, 1, 1-12.	1.4	40
29	Distracting the Mind Improves Performance: An ERP Study. PLoS ONE, 2010, 5, e15024.	1.1	39
30	An Individual's Rate of Forgetting Is Stable Over Time but Differs Across Materials. Topics in Cognitive Science, 2016, 8, 305-321.	1.1	39
31	Modeling developmental transitions on the balance scale task. Cognitive Science, 2003, 27, 227-257.	0.8	33
32	What Eye Movements Can Tell about Theory of Mind in a Strategic Game. PLoS ONE, 2012, 7, e45961.	1.1	32
33	Accounting for memory mechanisms in interval timing: a review. Current Opinion in Behavioral Sciences, 2016, 8, 245-249.	2.0	31
34	An accumulator model of semantic interference. Cognitive Systems Research, 2007, 8, 174-181.	1.9	30
35	Using a symbolic process model as input for model-based fMRI analysis: Locating the neural correlates of problem state replacements. NeuroImage, 2011, 58, 137-147.	2.1	30
36	Driving and Multitasking: The Good, the Bad, and the Dangerous. Frontiers in Psychology, 2016, 7, 1718.	1.1	30

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37	Pupillary response indexes the metrical hierarchy of unattended rhythmic violations. Brain and Cognition, 2017, 111, 95-103.	0.8	30
38	Decision Making in Concurrent Multitasking: Do People Adapt to Task Interference?. PLoS ONE, 2013, 8, e79583.	1.1	30
39	Temporal Context Actively Shapes EEG Signatures of Time Perception. Journal of Neuroscience, 2021, 41, 4514-4523.	1.7	28
40	The Locus of the Gratton Effect in Pictureâ€“Word Interference. Topics in Cognitive Science, 2010, 2, 168-180.	1.1	25
41	Learning to reason about speakersâ€™ alternatives in sentence comprehension: A computational account. Lingua, 2007, 117, 1879-1896.	0.4	24
42	Using Data-Driven Model-Brain Mappings to Constrain Formal Models of Cognition. PLoS ONE, 2015, 10, e0119673.	1.1	22
43	Neuroelectromagnetic signatures of the reproduction of supra-second durations. Neuropsychologia, 2015, 75, 201-213.	0.7	22
44	Of monkeys and men: Impatience in perceptual decision-making. Psychonomic Bulletin and Review, 2016, 23, 738-749.	1.4	22
45	Core body temperature speeds up temporal processing and choice behavior under deadlines. Scientific Reports, 2019, 9, 10053.	1.6	22
46	It's time to take the psychology of biological time into account: speed of driving affects a trip's subjective duration. Frontiers in Psychology, 2014, 5, 1028.	1.1	20
47	Pupillary responses reflect ambiguity resolution in pronoun processing. Language, Cognition and Neuroscience, 2016, 31, 876-885.	0.7	20
48	FMTP: A unifying computational framework of temporal preparation across time scales.. Psychological Review, 2022, 129, 911-948.	2.7	19
49	Modeling developmental transitions on the balance scale task. Cognitive Science, 2003, 27, 227-257.	0.8	18
50	Contrasting single and multi-component working-memory systems in dual tasking. Cognitive Psychology, 2016, 86, 1-26.	0.9	18
51	Towards Ecologically Valid Interval Timing. Trends in Cognitive Sciences, 2018, 22, 850-852.	4.0	18
52	Timing deficiencies in amnestic Mild Cognitive Impairment: Disentangling clock and memory processes. Behavioural Brain Research, 2019, 373, 112110.	1.2	18
53	Lockdown Learning: Changes in Online Foreign-Language Study Activity and Performance of Dutch Secondary School Students During the COVID-19 Pandemic. Frontiers in Education, 2021, 6, .	1.2	18
54	Eye Guidance and the Saliency of Word Beginnings in Reading Text. , 2000, , 269-299.		17

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55	Avoiding the problem state bottleneck by strategic use of the environment. Acta Psychologica, 2013, 144, 373-379.	0.7	17
56	Temporal Context Influences the Perceived Duration of Everyday Actions: Assessing the Ecological Validity of Lab-Based Timing Phenomena. Journal of Cognition, 2018, 2, 1.	1.0	17
57	Temporal Expectation Indexed by Pupillary Response. Timing and Time Perception, 2016, 4, 354-370.	0.4	15
58	Thermosensory perception regulates speed of movement in response to temperature changes in Drosophila melanogaster. Journal of Experimental Biology, 2018, 221, .	0.8	15
59	Performance-informed EEG analysis reveals mixed evidence for EEG signatures unique to the processing of time. Psychological Research, 2020, 84, 352-369.	1.0	15
60	Timing & Time Perception Enters a New Dimension. Timing and Time Perception, 2013, 1, 1-2.	0.4	14
61	A common dynamic prior for time in duration discrimination. Psychonomic Bulletin and Review, 2021, 28, 1183-1190.	1.4	14
62	The dynamic effect of context on interval timing in children and adults. Acta Psychologica, 2019, 192, 87-93.	0.7	13
63	How to Assess the Existence of Competing Strategies in Cognitive Tasks: A Primer on the Fixed-Point Property. PLoS ONE, 2014, 9, e106113.	1.1	13
64	FILE: a tool for the study of inquiry learning. Computers in Human Behavior, 2005, 21, 945-956.	5.1	12
65	Tonic and Phasic Dopamine Fluctuations as Reflected in Beta-power Predict Interval Timing Behavior. Procedia, Social and Behavioral Sciences, 2014, 126, 47.	0.5	12
66	Modeling inference of mental states. Interaction Studies, 2014, 15, 455-477.	0.4	12
67	Eliciting contextual temporal calibration: The effect of bottom-up and top-down information in reproduction tasks. Acta Psychologica, 2019, 199, 102898.	0.7	12
68	Time perception and timed decision task performance during passive heat stress. Temperature, 2021, 8, 53-63.	1.7	12
69	Alleviating the Cold Start Problem in Adaptive Learning using Data-Driven Difficulty Estimates. Computational Brain & Behavior, 2021, 4, 231-249.	0.9	12
70	Two visual targets for the price of one? Pupil dilation shows reduced mental effort through temporal integration. Psychonomic Bulletin and Review, 2015, 22, 251-257.	1.4	11
71	What You See Is What You Remember: Visual Chunking by Temporal Integration Enhances Working Memory. Journal of Cognitive Neuroscience, 2017, 29, 2025-2036.	1.1	11
72	Reflections of idiographic long-term memory characteristics in resting-state neuroimaging data. Cognition, 2021, 212, 104660.	1.1	11

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73	Temporal context effects are associated with cognitive status in advanced age. Psychological Research, 2022, 86, 512-521.	1.0	10
74	Studying inquiry learning with FILE. Computers in Human Behavior, 2005, 21, 933-943.	5.1	9
75	1-s Productions: A Validation of an Efficient Measure of Clock Variability. Frontiers in Human Neuroscience, 2018, 12, 519.	1.0	9
76	Neural Repetition Suppression Modulates Time Perception: Evidence From Electrophysiology and Pupillometry. Journal of Cognitive Neuroscience, 2021, 33, 1230-1252.	1.1	9
77	Age-related changes in time perception: The impact of naturalistic environments and retrospective judgements on timing performance. Quarterly Journal of Experimental Psychology, 2021, 74, 2002-2012.	0.6	9
78	Predicting University Studentsâ€™ Exam Performance Using a Model-Based Adaptive Fact-Learning System. Journal of Learning Analytics, 2021, 8, 155-169.	1.8	9
79	An Evaluation of the Effect of Auditory Emotional Stimuli on Interval Timing. Timing and Time Perception, 2016, 4, 48-62.	0.4	8
80	Precision Timing with Î±â€“Î² Oscillatory Coupling: Stopwatch or Motor Control?. Journal of Cognitive Neuroscience, 2020, 32, 1624-1636.	1.1	8
81	Itâ€™s time to do the math. Mental Lexicon, 2013, 8, 1-25.	0.2	7
82	Toward Cognitively Constrained Models of Language Processing: A Review. Frontiers in Communication, 2017, 2, .	0.6	7
83	Exploration of the Rate of Forgetting as a Domain-Specific Individual Differences Measure. Frontiers in Education, 2018, 3, .	1.2	7
84	EEG-based Identification of Evidence Accumulation Stages in Decision-Making. Journal of Cognitive Neuroscience, 2021, 33, 510-527.	1.1	7
85	Personal Publication Assistant: Abstract recommendations by a cognitive model. Cognitive Systems Research, 2010, 11, 120-129.	1.9	6
86	Implicit learning of temporal behavior in complex dynamic environments. Psychonomic Bulletin and Review, 2021, 28, 1270-1280.	1.4	6
87	Discovering the brain stages of lexical decision: Behavioral effects originate from a single neural decision process. Brain and Cognition, 2021, 153, 105786.	0.8	6
88	Within-Subject Performance on a Real-Life, Complex Task and Traditional Lab Experiments: Measures of Word Learning, Raven Matrices, Tapping, and CPR. Journal of Cognition, 2019, 2, 12.	1.0	6
89	Neural markers of memory consolidation do not predict temporal estimates of encoded items. Neuropsychologia, 2018, 117, 36-45.	0.7	5
90	On the necessity of integrating multiple levels of abstraction in a single computational framework. Current Opinion in Behavioral Sciences, 2016, 11, 116-120.	2.0	4

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91	Robustness of individual differences in temporal interference effects. PLoS ONE, 2018, 13, e0202345.	1.1	4
92	Benefits of Adaptive Learning Transfer From Typing-Based Learning to Speech-Based Learning. Frontiers in Artificial Intelligence, 2021, 4, 780131.	2.0	4
93	The Role of the SMA and the Contingent Negative Variation in Interval Timing. Procedia, Social and Behavioral Sciences, 2014, 126, 27-28.	0.5	3
94	Timing & Time Perception Reviews: Opening the Door to Theoretical Discussions of Consciousness, Decision-Making, Multisensory Processing, Time Cells and Memory Mapping â€¦ to Name But a Few Issues of Relevance to Temporal Cognition. Timing & Time Perception Reviews, 2014, 1, 1-4.	1.4	3
95	An Automated Method to Determine the Performance of Drosophila in Response to Temperature Changes in Space and Time. Journal of Visualized Experiments, 2018, , .	0.2	3
96	Probabilistic motor sequence learning in a virtual reality serial reaction time task. PLoS ONE, 2018, 13, e0198759.	1.1	3
97	Keeping Bystanders Active: Resuscitating Resuscitation Skills. Frontiers in Public Health, 2019, 7, 177.	1.3	3
98	No evidence for an attentional bias towards implicit temporal regularities. Attention, Perception, and Psychophysics, 2020, 82, 1136-1149.	0.7	3
99	Attention Does Not Affect the Speed of Subjective Time, but Whether Temporal Information Guides Performance: A Largeâ€Scale Study of Intrinsically Motivated Timers in a Realâ€Time Strategy Game. Cognitive Science, 2021, 45, e12939.	0.8	3
100	Conceptually plausible Bayesian inference in interval timing. Royal Society Open Science, 2021, 8, 201844.	1.1	3
101	Word Frequency and the Attentional Blink: The Effects of Target Difficulty on Retrieval and Consolidation Processes. PLoS ONE, 2013, 8, e73415.	1.1	3
102	Capturing Dynamic Performance in a Cognitive Model: Estimating ACTâ€R Memory Parameters With the Linear Ballistic Accumulator. Topics in Cognitive Science, 2022, 14, 889-903.	1.1	3
103	How Children Process Reduced Forms: A Computational Cognitive Modeling Approach to Pronoun Processing in Discourse. Cognitive Science, 2021, 45, e12951.	0.8	2
104	Memory for Stimulus Duration Is Not Bound to Spatial Information. Journal of Cognitive Neuroscience, 2021, 33, 1211-1229.	1.1	2
105	Effects of elaborate feedback during practice tests: Costs and benefits of retrieval prompts.. Journal of Experimental Psychology: Applied, 2019, 25, 588-601.	0.9	2
106	The Cognitive Representation of Time and Duration. Procedia, Social and Behavioral Sciences, 2014, 126, 21-23.	0.5	1
107	An Integrative Account of Psychological Time. , 2016, , .		1
108	The observed locus of semantic interference may not coincide with the functional locus of semantic interference: A commentary on Shitova etÂal.. Cortex, 2019, 111, 327-332.	1.1	1

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109	Reasoning about alternative forms is costly: The processing of null and overt pronouns in Italian using pupillary responses. Discourse Processes, 2020, 57, 158-183.	1.1	1
110	Estimating Time: Comparing the Accuracy of Estimation Methods for Interval Timing. Collabra: Psychology, 2021, 7, .	0.9	1
111	Change biases identify the features that drive time perception.. Journal of Experimental Psychology: Human Perception and Performance, 2021, 47, 1192-1208.	0.7	1
112	Reducing the tendency for chronometric counting in duration discrimination tasks. Attention, Perception, and Psychophysics, 0, , .	0.7	1
113	Editorial to the Special Issue on â€œThe Best of ICCM 2012â€. Cognitive Systems Research, 2013, 24, 1.	1.9	0
114	Validating Models of Complex, Real-life Tasks Using fMRI. , 2013, , 163-180.		0
115	Individual optimization of risky decisions in duration and distance estimations. Attention, Perception, and Psychophysics, 2021, 83, 1897-1906.	0.7	0