Jelmer P Borst

List of Publications by Year
in descending order

43 papers	1,490 citations	430874 18 h-index	377865 34 g-index
53 all docs	53 docs citations	53 times ranked	1467 citing authors

#	Article	IF	Citations
1	Thalamic bursts modulate cortical synchrony locally to switch between states of global functional connectivity in a cognitive task. PLoS Computational Biology, 2022, 18, e1009407.	3.2	1
2	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.	1.9	3
3	EEG-based Identification of Evidence Accumulation Stages in Decision-Making. Journal of Cognitive Neuroscience, 2021, 33, 510-527.	2.3	7
4	The Discovery and Interpretation of Evidence Accumulation Stages. Computational Brain & Behavior, 2021, 4, 395-415.	1.7	6
5	The resource-availability model of distraction and mind-wandering. Cognitive Systems Research, 2021, 68, 84-104.	2.7	11
6	Discovering the brain stages of lexical decision: Behavioral effects originate from a single neural decision process. Brain and Cognition, 2021, 153, 105786.	1.8	6
7	Memory-related cognitive load effects in an interrupted learning task: A model-based explanation. Trends in Neuroscience and Education, 2020, 20, 100139.	3.1	8
8	Distinguishing vigilance decrement and low task demands from mindâ€wandering: A machine learning analysis of EEG. European Journal of Neuroscience, 2020, 52, 4147-4164.	2.6	16
9	A functional spiking-neuron model of activity-silent working memory in humans based on calcium-mediated short-term synaptic plasticity. PLoS Computational Biology, 2020, 16, e1007936.	3.2	14
10	Predicting task-general mind-wandering with EEG. Cognitive, Affective and Behavioral Neuroscience, 2019, 19, 1059-1073.	2.0	69
11	Characterizing synchrony patterns across cognitive task stages of associative recognition memory. European Journal of Neuroscience, 2018, 48, 2759-2769.	2.6	19
12	Mapping working memory retrieval in space and in time: A combined electroencephalography and electrocorticography approach. NeuroImage, 2018, 174, 472-484.	4.2	20
13	The Common Time Course of Memory Processes Revealed. Psychological Science, 2018, 29, 1463-1474.	3.3	14
14	A step-by-step tutorial on using the cognitive architecture ACT-R in combination with fMRI data. Journal of Mathematical Psychology, 2017, 76, 94-103.	1.8	24
15	Interâ€subject alignment of MEG datasets in a common representational space. Human Brain Mapping, 2017, 38, 4287-4301.	3.6	13
16	Driving and Multitasking: The Good, the Bad, and the Dangerous. Frontiers in Psychology, 2016, 7, 1718.	2.1	30
17	Strategies for memory-based decision making: Modeling behavioral and neural signatures within a cognitive architecture. Cognition, 2016, 157, 77-99.	2.2	15
18	Tracking cognitive processing stages with MEG: A spatio-temporal model of associative recognition in the brain. NeuroImage, 2016, 141, 416-430.	4.2	17

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19	Cognitive Modeling at <scp>ICCM</scp>: State of the Art and Future Directions. Topics in Cognitive Science, 2016, 8, 259-263.	1.9	1
20	On the necessity of integrating multiple levels of abstraction in a single computational framework. Current Opinion in Behavioral Sciences, 2016, 11, 116-120.	3.9	4
21	Activity in the fronto-parietal network indicates numerical inductive reasoning beyond calculation: An fMRI study combined with a cognitive model. Scientific Reports, 2016, 6, 25976.	3.3	16
22	The discovery of processing stages: Extension of Sternbergâ€™s method.. Psychological Review, 2016, 123, 481-509.	3.8	34
23	Interrupted by Your Pupil: An Interruption Management System Based on Pupil Dilation. International Journal of Human-Computer Interaction, 2016, 32, 791-801.	4.8	21
24	Interrupt me: External interruptions are less disruptive than self-interruptions. Computers in Human Behavior, 2016, 63, 906-915.	8.5	39
25	Contrasting single and multi-component working-memory systems in dual tasking. Cognitive Psychology, 2016, 86, 1-26.	2.2	18
26	Using Data-Driven Model-Brain Mappings to Constrain Formal Models of Cognition. PLoS ONE, 2015, 10, e0119673.	2.5	22
27	The discovery of processing stages: Analyzing EEG data with hidden semi-Markov models. NeuroImage, 2015, 108, 60-73.	4.2	51
28	What Makes Interruptions Disruptive?. , 2015, , .		70
29	What happens when we switch tasks: Pupil dilation in multitasking.. Journal of Experimental Psychology: Applied, 2014, 20, 380-396.	1.2	36
30	Single-task fMRI overlap predicts concurrent multitasking interference. NeuroImage, 2014, 100, 60-74.	4.2	58
31	Avoiding the problem state bottleneck by strategic use of the environment. Acta Psychologica, 2013, 144, 373-379.	1.5	17
32	Using model-based functional MRI to locate working memory updates and declarative memory retrievals in the fronto-parietal network. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1628-1633.	7.1	88
33	Stages of Processing in Associative Recognition: Evidence from Behavior, EEG, and Classification. Journal of Cognitive Neuroscience, 2013, 25, 2151-2166.	2.3	19
34	Decision Making in Concurrent Multitasking: Do People Adapt to Task Interference?. PLoS ONE, 2013, 8, e79583.	2.5	30
35	Pupil Dilation Co-Varies with Memory Strength of Individual Traces in a Delayed Response Paired-Associate Task. PLoS ONE, 2012, 7, e51134.	2.5	46
36	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.	4.2	30

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37	The problem state: A cognitive bottleneck in multitasking.. Journal of Experimental Psychology: Learning Memory and Cognition, 2010, 36, 363-382.	0.9	132
38	The Neural Correlates of Problem States: Testing fMRI Predictions of a Computational Model of Multitasking. PLoS ONE, 2010, 5, e12966.	2.5	46
39	Toward a unified theory of the multitasking continuum. , 2009, , .		134
40	Too much control can hurt: A threaded cognition model of the attentional blink. Cognitive Psychology, 2009, 59, 1-29.	2.2	168
41	Stroop and pictureâ€"word interference are two sides of the same coin. Psychonomic Bulletin and Review, 2009, 16, 987-999.	2.8	75
42	A Quick Visual Mind Can be a Slow Auditory Mind. Experimental Psychology, 2009, 56, 33-40.	0.7	19
43	Validating Models of Complex, Real-life Tasks Using fMRI. , 0, , .		1