

Howard Bowman

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

2,839
citations

257450

24
h-index

206112

48
g-index

107
all docs

107
docs citations

107
times ranked

2827
citing authors

#	ARTICLE	IF	CITATIONS
1	Oscillations and Episodic Memory: Addressing the Synchronization/Desynchronization Conundrum. <i>Trends in Neurosciences</i> , 2016, 39, 16-25.	8.6	295
2	The simultaneous type, serial token model of temporal attention and working memory.. <i>Psychological Review</i> , 2007, 114, 38-70.	3.8	250
3	The attentional blink provides episodic distinctiveness: Sparing at a cost.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2009, 35, 787-807.	0.9	217
4	Deep temporal models and active inference. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 77, 388-402.	6.1	159
5	Attentional episodes in visual perception.. <i>Journal of Experimental Psychology: General</i> , 2011, 140, 488-505.	2.1	99
6	I tried a bunch of things: The dangers of unexpected overfitting in classification of brain data. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 119, 456-467.	6.1	94
7	Recovery after stroke: not so proportional after all?. <i>Brain</i> , 2019, 142, 15-22.	7.6	84
8	The Temporal Signature of Memories: Identification of a General Mechanism for Dynamic Memory Replay in Humans. <i>PLoS Biology</i> , 2016, 14, e1002528.	5.6	83
9	Neural correlates of intrusion of emotion words in a modified Stroop task. <i>International Journal of Psychophysiology</i> , 2008, 67, 23-34.	1.0	82
10	Dissociating local and global levels of perceptuo-motor control in masked priming.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2006, 32, 618-632.	0.9	77
11	The impact of sample size on the reproducibility of voxel-based lesion-deficit mappings. <i>Neuropsychologia</i> , 2018, 115, 101-111.	1.6	67
12	Damage to Broca's area does not contribute to long-term speech production outcome after stroke. <i>Brain</i> , 2021, 144, 817-832.	7.6	65
13	A neural network model of inhibitory processes in subliminal priming. <i>Visual Cognition</i> , 2006, 13, 401-480.	1.6	63
14	Data-driven region-of-interest selection without inflating Type I error rate. <i>Psychophysiology</i> , 2017, 54, 100-113.	2.4	62
15	The Attentional Blink Reveals Serial Working Memory Encoding: Evidence from Virtual and Human Event-related Potentials. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 550-566.	2.3	58
16	EEG oscillations during word processing predict MCI conversion to Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2018, 17, 188-197.	2.7	57
17	Speed of time-compressed forward replay flexibly changes in human episodic memory. <i>Nature Human Behaviour</i> , 2019, 3, 143-154.	12.0	57
18	The Sync/deSync Model: How a Synchronized Hippocampus and a Desynchronized Neocortex Code Memories. <i>Journal of Neuroscience</i> , 2018, 38, 3428-3440.	3.6	51

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19	Categorically defined targets trigger spatiotemporal visual attention.. Journal of Experimental Psychology: Human Perception and Performance, 2009, 35, 324-337.	0.9	42
20	Data-driven re-referencing of intracranial EEG based on independent component analysis (ICA). Journal of Neuroscience Methods, 2018, 307, 125-137.	2.5	38
21	Subliminal Salience Search Illustrated: EEG Identity and Deception Detection on the Fringe of Awareness. PLoS ONE, 2013, 8, e54258.	2.5	37
22	Strategic regulation of cognitive control by emotional salience: A neural network model. Cognition and Emotion, 2008, 22, 1019-1051.	2.0	36
23	Bringing proportional recovery into proportion: Bayesian modelling of post-stroke motor impairment. Brain, 2020, 143, 2189-2206.	7.6	35
24	FDTs for ODP. Computer Standards and Interfaces, 1995, 17, 457-479.	5.4	32
25	How distributed processing produces false negatives in voxel-based lesion-deficit analyses. Neuropsychologia, 2018, 115, 124-133.	1.6	30
26	Constructive consistency checking for partial specification in Z. Science of Computer Programming, 1999, 35, 29-75.	1.9	25
27	Attention Increases the Temporal Precision of Conscious Perception: Verifying the Neural-ST2 Model. PLoS Computational Biology, 2009, 5, e1000576.	3.2	25
28	The cost of space independence in P300-BCI spellers. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 82.	4.6	25
29	Analysing Cognitive Behaviour using LOTOS and Mexitl. Formal Aspects of Computing, 1999, 11, 132-159.	1.8	24
30	How to stop time stopping. Formal Aspects of Computing, 2006, 18, 459-493.	1.8	24
31	Countering Countermeasures: Detecting Identity Lies by Detecting Conscious Breakthrough. PLoS ONE, 2014, 9, e90595.	2.5	24
32	Specifying and Refining Internal Operations in Z. Formal Aspects of Computing, 1998, 10, 125-159.	1.8	20
33	Efficient Detection of Zeno Runs in Timed Automata. Lecture Notes in Computer Science, 2007, , 195-210.	1.3	20
34	Attention is more than prediction precision. Behavioral and Brain Sciences, 2013, 36, 206-208.	0.7	19
35	Understanding visual attention with RAGNAROC: A reflexive attention gradient through neural AttRActOr competition.. Psychological Review, 2020, 127, 1163-1198.	3.8	19
36	A reciprocal relationship between bottom-up trace strength and the attentional blink bottleneck: Relating the LC-NE and ST2 models. Brain Research, 2008, 1202, 25-42.	2.2	17

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37	Replay of Stimulus-specific Temporal Patterns during Associative Memory Formation. <i>Journal of Cognitive Neuroscience</i> , 2018, 30, 1577-1589.	2.3	17
38	Competitive interactions affect working memory performance for both simultaneous and sequential stimulus presentation. <i>Scientific Reports</i> , 2017, 7, 4785.	3.3	16
39	How hot is the hot zone? Computational modelling clarifies the role of parietal and frontoparietal connectivity during anaesthetic-induced loss of consciousness. <i>NeuroImage</i> , 2021, 231, 117841.	4.2	16
40	Cross-viewpoint consistency in open distributed processing. <i>Software Engineering Journal</i> , 1996, 11, 44.	0.7	16
41	The experiential blink: Mapping the cost of working memory encoding onto conscious perception in the attentional blink. <i>Cortex</i> , 2016, 81, 35-49.	2.4	15
42	Placing meta-stable states of consciousness within the predictive coding hierarchy: The deceleration of the accelerated prediction error. <i>Consciousness and Cognition</i> , 2018, 63, 123-142.	1.5	15
43	Breakthrough percepts of famous faces. <i>Psychophysiology</i> , 2019, 56, e13279.	2.4	14
44	Inflated Estimates of Proportional Recovery From Stroke. <i>Stroke</i> , 2021, 52, 1915-1920.	2.0	14
45	Process algebraic modelling of attentional capture and human electrophysiology in interactive systems. <i>Formal Aspects of Computing</i> , 2009, 21, 513.	1.8	13
46	Temporal perception deficits in schizophrenia: integration is the problem, not deployment of attentions. <i>Scientific Reports</i> , 2015, 5, 9745.	3.3	13
47	Effect of tDCS Over the Right Inferior Parietal Lobule on Mind-Wandering Propensity. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 230.	2.0	13
48	Modelling Timeouts without Timelocks. <i>Lecture Notes in Computer Science</i> , 1999, , 334-353.	1.3	13
49	Formal specification and verification of multimedia systems in open distributed processing. <i>Computer Standards and Interfaces</i> , 1995, 17, 413-436.	5.4	11
50	Viewpoints and consistency: translating lotos to Object-z. <i>Computer Standards and Interfaces</i> , 1999, 21, 251-272.	5.4	9
51	Breaking the circularity in circular analyses: Simulations and formal treatment of the flattened average approach. <i>PLoS Computational Biology</i> , 2020, 16, e1008286.	3.2	8
52	Recovery after stroke: the severely impaired are a distinct group. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2022, 93, 369-378.	1.9	8
53	Mexitl: Multimedia in Executable Interval Temporal Logic. <i>Formal Methods in System Design</i> , 2003, 22, 5-38.	0.8	7
54	Salience sensitive control, temporal attention and stimulus-rich reactive interfaces. , 2011, , 114-144.		7

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55	Glancing and Then Looking: On the Role of Body, Affect, and Meaning in Cognitive Control. <i>Frontiers in Psychology</i> , 2011, 2, 348.	2.1	7
56	Event-related potentials reflect prediction errors and pop-out during comprehension of degraded speech. <i>Neuroscience of Consciousness</i> , 2020, 2020, niaa022.	2.6	7
57	Realizing Active Inference in Variational Message Passing: The Outcome-Blind Certainty Seeker. <i>Neural Computation</i> , 2021, 33, 2762-2826.	2.2	7
58	Analysing neurobiological models using communicating automata. <i>Formal Aspects of Computing</i> , 2014, 26, 1169-1204.	1.8	6
59	On the interplay between working memory consolidation and attentional selection in controlling conscious access: parallel processing at a cost—a comment on “The interplay of attention and consciousness in visual search, attentional blink and working memory consolidation”. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140197.	4.0	6
60	Illusions of integration are subjectively impenetrable: Phenomenological experience of Lag 1 percepts during dual-target RSVP. <i>Consciousness and Cognition</i> , 2017, 51, 181-192.	1.5	6
61	Aging reduces EEG markers of recognition despite intact performance: Implications for forensic memory detection. <i>Cortex</i> , 2021, 140, 80-97.	2.4	6
62	Formal description of distributed multimedia systems: an assessment of potential techniques. <i>Computer Communications</i> , 1995, 18, 964-977.	5.1	5
63	PITL2MONA: Implementing a Decision Procedure for Propositional Interval Temporal Logic. <i>Journal of Applied Non-Classical Logics</i> , 2004, 14, 105-148.	0.5	5
64	Resampling the peak, some dos and don'ts. <i>Psychophysiology</i> , 2015, 52, 444-448.	2.4	5
65	Sedation Modulates Frontotemporal Predictive Coding Circuits and the Double Surprise Acceleration Effect. <i>Cerebral Cortex</i> , 2020, 30, 5204-5217.	2.9	5
66	A Tool for the Syntactic Detection of Zeno-timelocks in Timed Automata. <i>Electronic Notes in Theoretical Computer Science</i> , 2005, 139, 25-47.	0.9	4
67	Performance of Reactive Interfaces in Stimulus Rich Environments, Applying Formal Methods and Cognitive Frameworks. <i>Electronic Notes in Theoretical Computer Science</i> , 2008, 208, 95-111.	0.9	4
68	On the limits of evidence accumulation of the preconscious percept. <i>Cognition</i> , 2020, 195, 104080.	2.2	4
69	The Sync-Fire/deSync model: Modelling the reactivation of dynamic memories from cortical alpha oscillations. <i>Neuropsychologia</i> , 2021, 158, 107867.	1.6	4
70	Incandescent Bulb and LED Brake Lights: Novel Analysis of Reaction Times. <i>IEEE Access</i> , 2021, 9, 29143-29152.	4.2	4
71	Fleeting Perceptual Experience and the Possibility of Recalling Without Seeing. <i>Scientific Reports</i> , 2020, 10, 8540.	3.3	4
72	From ACT-ONE to Miranda, a translation experiment. <i>Computer Standards and Interfaces</i> , 1998, 19, 31-49.	5.4	3

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73	Towards Integrated Cognitive and Interface Analysis. <i>Electronic Notes in Theoretical Computer Science</i> , 2001, 43, 97-112.	0.9	3
74	MODELLING THE SLOW EMOTIONAL STROOP EFFECT: SUPPRESSION OF COGNITIVE CONTROL. , 2005, , .		3
75	Strategic and Non-Strategic Semantic Expectations Hierarchically Modulate Neural Processing. <i>ENeuro</i> , 2020, 7, ENEURO.0229-20.2020.	1.9	3
76	Branching Time Active Inference: The theory and its generality. <i>Neural Networks</i> , 2022, 151, 295-316.	5.9	3
77	Branching time active inference: Empirical study and complexity class analysis. <i>Neural Networks</i> , 2022, 152, 450-466.	5.9	3
78	A new method for detecting deception in Event Related Potentials using individual-specific weight templates. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	2
79	Breakthrough percepts of online identity: Detecting recognition of email addresses on the fringe of awareness. <i>European Journal of Neuroscience</i> , 2021, 53, 895-901.	2.6	2
80	Breakthrough percepts of famous names. <i>Cortex</i> , 2021, 139, 267-281.	2.4	2
81	A LOTOS based tutorial on formal methods for object-oriented distributed systems. <i>New Generation Computing</i> , 1998, 16, 343-372.	3.3	1
82	AN INVESTIGATION OF THE MYOPIA FOR FUTURE CONSEQUENCES THEORY OF VMF PATIENT BEHAVIOUR ON THE IOWA GAMBLING TASK: AN ABSTRACT NEURAL NETWORK SIMULATION. , 2005, , .		1
83	The missing N1 or jittered P2: Electrophysiological correlates of pattern glare in the time and frequency domain. <i>European Journal of Neuroscience</i> , 2021, 54, 6168-6186.	2.6	1
84	NEURAL NETWORK MODELLING OF INHIBITION IN VISUO-MOTOR CONTROL. , 2002, , .		1
85	Modelling the simultaneous encoding/serial experience theory of the perceptual moment: a blink of meta-experience. <i>Neuroscience of Consciousness</i> , 2022, 2022, niac003.	2.6	1
86	Investigating the Cognitive Response of Brake Lights in Initiating Braking Action Using EEG. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 13878-13883.	8.0	0
87	Perceiving what is not there: Distractor intrusions accounted for by a computational model.. <i>Journal of Vision</i> , 2021, 21, 2016.	0.3	0
88	Fragile Memories for Fleeting Percepts. <i>Journal of Vision</i> , 2021, 21, 2542.	0.3	0
89	Data-driven region-of-interest selection for visual and attention ERP studies controls Type I error and increases power. <i>Journal of Vision</i> , 2018, 18, 972.	0.3	0
90	Strategic and Non-Strategic Semantic Expectations Hierarchically Modulate Neural Processing. <i>ENeuro</i> , 2020, 7, .	1.9	0

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91	Title is missing!. , 2020, 16, e1008286.		0
92	Title is missing!. , 2020, 16, e1008286.		0
93	Title is missing!. , 2020, 16, e1008286.		0
94	Title is missing!. , 2020, 16, e1008286.		0
95	Title is missing!. , 2020, 16, e1008286.		0
96	Title is missing!. , 2020, 16, e1008286.		0