Howard Bowman

List of Publications by Year
in descending order

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	Investigating the Cognitive Response of Brake Lights in Initiating Braking Action Using EEG. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13878-13883.	8.0	0
2	Modelling the simultaneous encoding/serial experience theory of the perceptual moment: a blink of meta-experience. Neuroscience of Consciousness, 2022, 2022, niac003.	2.6	1
3	Branching Time Active Inference: The theory and its generality. Neural Networks, 2022, 151, 295-316.	5.9	3
4	Recovery after stroke: the severely impaired are a distinct group. Journal of Neurology, Neurosurgery and Psychiatry, 2022, 93, 369-378.	1.9	8
5	Branching time active inference: Empirical study and complexity class analysis. Neural Networks, 2022, 152, 450-466.	5.9	3
6	Breakthrough percepts of online identity: Detecting recognition of email addresses on the fringe of awareness. European Journal of Neuroscience, 2021, 53, 895-901.	2.6	2
7	How hot is the hot zone? Computational modelling clarifies the role of parietal and frontoparietal connectivity during anaesthetic-induced loss of consciousness. NeuroImage, 2021, 231, 117841.	4.2	16
8	Inflated Estimates of Proportional Recovery From Stroke. Stroke, 2021, 52, 1915-1920.	2.0	14
9	Breakthrough percepts of famous names. Cortex, 2021, 139, 267-281.	2.4	2
10	Aging reduces EEG markers of recognition despite intact performance: Implications for forensic memory detection. Cortex, 2021, 140, 80-97.	2.4	6
11	The Sync-Fire/deSync model: Modelling the reactivation of dynamic memories from cortical alpha oscillations. Neuropsychologia, 2021, 158, 107867.	1.6	4
12	The missing N1 or jittered P2: Electrophysiological correlates of pattern glare in the time and frequency domain. European Journal of Neuroscience, 2021, 54, 6168-6186.	2.6	1
13	Perceiving what is not there: Distractor intrusions accounted for by a computational model.. Journal of Vision, 2021, 21, 2016.	0.3	0
14	Fragile Memories for Fleeting Percepts. Journal of Vision, 2021, 21, 2542.	0.3	0
15	Realizing Active Inference in Variational Message Passing: The Outcome-Blind Certainty Seeker. Neural Computation, 2021, 33, 2762-2826.	2.2	7
16	Damage to Brocaâ€™s area does not contribute to long-term speech production outcome after stroke. Brain, 2021, 144, 817-832.	7.6	65
17	Incandescent Bulb and LED Brake Lights: Novel Analysis of Reaction Times. IEEE Access, 2021, 9, 29143-29152.	4.2	4
18	On the limits of evidence accumulation of the preconscious percept. Cognition, 2020, 195, 104080.	2.2	4

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19	Event-related potentials reflect prediction errors and pop-out during comprehension of degraded speech. Neuroscience of Consciousness, 2020, 2020, niaa022.	2.6	7
20	I tried a bunch of things: The dangers of unexpected overfitting in classification of brain data. Neuroscience and Biobehavioral Reviews, 2020, 119, 456-467.	6.1	94
21	Sedation Modulates Frontotemporal Predictive Coding Circuits and the Double Surprise Acceleration Effect. Cerebral Cortex, 2020, 30, 5204-5217.	2.9	5
22	Bringing proportional recovery into proportion: Bayesian modelling of post-stroke motor impairment. Brain, 2020, 143, 2189-2206.	7.6	35
23	Effect of tDCS Over the Right Inferior Parietal Lobule on Mind-Wandering Propensity. Frontiers in Human Neuroscience, 2020, 14, 230.	2.0	13
24	Understanding visual attention with RAGNAROC: A reflexive attention gradient through neural AttRactOr competition.. Psychological Review, 2020, 127, 1163-1198.	3.8	19
25	Fleeting Perceptual Experience and the Possibility of Recalling Without Seeing. Scientific Reports, 2020, 10, 8540.	3.3	4
26	Breaking the circularity in circular analyses: Simulations and formal treatment of the flattened average approach. PLoS Computational Biology, 2020, 16, e1008286.	3.2	8
27	Strategic and Non-Strategic Semantic Expectations Hierarchically Modulate Neural Processing. ENeuro, 2020, 7, .	1.9	0
28	Strategic and Non-Strategic Semantic Expectations Hierarchically Modulate Neural Processing. ENeuro, 2020, 7, ENEURO.0229-20.2020.	1.9	3
29	Title is missing!. , 2020, 16, e1008286.		0
30	Title is missing!. , 2020, 16, e1008286.		0
31	Title is missing!. , 2020, 16, e1008286.		0
32	Title is missing!. , 2020, 16, e1008286.		0
33	Title is missing!. , 2020, 16, e1008286.		0
34	Title is missing!. , 2020, 16, e1008286.		0
35	Speed of time-compressed forward replay flexibly changes in human episodic memory. Nature Human Behaviour, 2019, 3, 143-154.	12.0	57
36	Recovery after stroke: not so proportional after all?. Brain, 2019, 142, 15-22.	7.6	84

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37	Breakthrough percepts of famous faces. Psychophysiology, 2019, 56, e13279.	2.4	14
38	How distributed processing produces false negatives in voxel-based lesion-deficit analyses. Neuropsychologia, 2018, 115, 124-133.	1.6	30
39	The Sync/deSync Model: How a Synchronized Hippocampus and a Desynchronized Neocortex Code Memories. Journal of Neuroscience, 2018, 38, 3428-3440.	3.6	51
40	The impact of sample size on the reproducibility of voxel-based lesion-deficit mappings. Neuropsychologia, 2018, 115, 101-111.	1.6	67
41	EEG oscillations during word processing predict MCI conversion to Alzheimer's disease. NeuroImage: Clinical, 2018, 17, 188-197.	2.7	57
42	Data-driven re-referencing of intracranial EEG based on independent component analysis (ICA). Journal of Neuroscience Methods, 2018, 307, 125-137.	2.5	38
43	Placing meta-stable states of consciousness within the predictive coding hierarchy: The deceleration of the accelerated prediction error. Consciousness and Cognition, 2018, 63, 123-142.	1.5	15
44	Replay of Stimulus-specific Temporal Patterns during Associative Memory Formation. Journal of Cognitive Neuroscience, 2018, 30, 1577-1589.	2.3	17
45	Data-driven region-of-interest selection for visual and attention ERP studies controls Type I error and increases power. Journal of Vision, 2018, 18, 972.	0.3	0
46	Deep temporal models and active inference. Neuroscience and Biobehavioral Reviews, 2017, 77, 388-402.	6.1	159
47	Illusions of integration are subjectively impenetrable: Phenomenological experience of Lag 1 percepts during dual-target RSVP. Consciousness and Cognition, 2017, 51, 181-192.	1.5	6
48	Dataâ€driven regionâ€ofâ€interest selection without inflating Type I error rate. Psychophysiology, 2017, 54, 100-113.	2.4	62
49	Competitive interactions affect working memory performance for both simultaneous and sequential stimulus presentation. Scientific Reports, 2017, 7, 4785.	3.3	16
50	The experiential blink: Mapping the cost of working memory encoding onto conscious perception in the attentional blink. Cortex, 2016, 81, 35-49.	2.4	15
51	Oscillations and Episodic Memory: Addressing the Synchronization/Desynchronization Conundrum. Trends in Neurosciences, 2016, 39, 16-25.	8.6	295
52	The Temporal Signature of Memories: Identification of a General Mechanism for Dynamic Memory Replay in Humans. PLoS Biology, 2016, 14, e1002528.	5.6	83
53	Temporal perception deficits in schizophrenia: integration is the problem, not deployment of attentions. Scientific Reports, 2015, 5, 9745.	3.3	13
54	On the interplay between working memory consolidation and attentional selection in controlling conscious access: parallel processing at a costâ€"a comment on â€˜The interplay of attention and consciousness in visual search, attentional blink and working memory consolidationâ€™. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140197.	4.0	6

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55	Resampling the peak, some dos and don'ts. Psychophysiology, 2015, 52, 444-448.	2.4	5
56	Countering Countermeasures: Detecting Identity Lies by Detecting Conscious Breakthrough. PLoS ONE, 2014, 9, e90595.	2.5	24
57	Analysing neurobiological models using communicating automata. Formal Aspects of Computing, 2014, 26, 1169-1204.	1.8	6
58	A new method for detecting deception in Event Related Potentials using individual-specific weight templates. BMC Neuroscience, 2013, 14, .	1.9	2
59	The cost of space independence in P300-BCI spellers. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 82.	4.6	25
60	Subliminal Salience Search Illustrated: EEG Identity and Deception Detection on the Fringe of Awareness. PLoS ONE, 2013, 8, e54258.	2.5	37
61	Attention is more than prediction precision. Behavioral and Brain Sciences, 2013, 36, 206-208.	0.7	19
62	Salience sensitive control, temporal attention and stimulus-rich reactive interfaces. , 2011, , 114-144.		7
63	Glancing and Then Looking: On the Role of Body, Affect, and Meaning in Cognitive Control. Frontiers in Psychology, 2011, 2, 348.	2.1	7
64	Attentional episodes in visual perception.. Journal of Experimental Psychology: General, 2011, 140, 488-505.	2.1	99
65	Attention Increases the Temporal Precision of Conscious Perception: Verifying the Neural-ST2 Model. PLoS Computational Biology, 2009, 5, e1000576.	3.2	25
66	The Attentional Blink Reveals Serial Working Memory Encoding: Evidence from Virtual and Human Event-related Potentials. Journal of Cognitive Neuroscience, 2009, 21, 550-566.	2.3	58
67	Process algebraic modelling of attentional capture and human electrophysiology in interactive systems. Formal Aspects of Computing, 2009, 21, 513.	1.8	13
68	The attentional blink provides episodic distinctiveness: Sparing at a cost.. Journal of Experimental Psychology: Human Perception and Performance, 2009, 35, 787-807.	0.9	217
69	Categorically defined targets trigger spatiotemporal visual attention.. Journal of Experimental Psychology: Human Perception and Performance, 2009, 35, 324-337.	0.9	42
70	Performance of Reactive Interfaces in Stimulus Rich Environments, Applying Formal Methods and Cognitive Frameworks. Electronic Notes in Theoretical Computer Science, 2008, 208, 95-111.	0.9	4
71	A reciprocal relationship between bottom-up trace strength and the attentional blink bottleneck: Relating the LCâ€“NE and ST2 models. Brain Research, 2008, 1202, 25-42.	2.2	17
72	Neural correlates of intrusion of emotion words in a modified Stroop task. International Journal of Psychophysiology, 2008, 67, 23-34.	1.0	82

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73	Strategic regulation of cognitive control by emotional salience: A neural network model. Cognition and Emotion, 2008, 22, 1019-1051.	2.0	36
74	The simultaneous type, serial token model of temporal attention and working memory.. Psychological Review, 2007, 114, 38-70.	3.8	250
75	Efficient Detection of Zeno Runs in Timed Automata. Lecture Notes in Computer Science, 2007, , 195-210.	1.3	20
76	How to stop time stopping. Formal Aspects of Computing, 2006, 18, 459-493.	1.8	24
77	Dissociating local and global levels of perceptuo-motor control in masked priming.. Journal of Experimental Psychology: Human Perception and Performance, 2006, 32, 618-632.	0.9	77
78	A neural network model of inhibitory processes in subliminal priming. Visual Cognition, 2006, 13, 401-480.	1.6	63
79	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
80	A Tool for the Syntactic Detection of Zeno-timelocks in Timed Automata. Electronic Notes in Theoretical Computer Science, 2005, 139, 25-47.	0.9	4
81	MODELLING THE SLOW EMOTIONAL STROOP EFFECT: SUPPRESSION OF COGNITIVE CONTROL. , 2005, , .		3
82	PITL2MONA: Implementing a Decision Procedure for Propositional Interval Temporal Logic. Journal of Applied Non-Classical Logics, 2004, 14, 105-148.	0.5	5
83	Mexitl: Multimedia in Executable Interval Temporal Logic. Formal Methods in System Design, 2003, 22, 5-38.	0.8	7
84	NEURAL NETWORK MODELLING OF INHIBITION IN VISUO-MOTOR CONTROL. , 2002, , .		1
85	Towards Integrated Cognitive and Interface Analysis. Electronic Notes in Theoretical Computer Science, 2001, 43, 97-112.	0.9	3
86	Constructive consistency checking for partial specification in Z. Science of Computer Programming, 1999, 35, 29-75.	1.9	25
87	Analysing Cognitive Behaviour using LOTOS and Mexitl. Formal Aspects of Computing, 1999, 11, 132-159.	1.8	24
88	Viewpoints and consistency: translating lotos to Object-z. Computer Standards and Interfaces, 1999, 21, 251-272.	5.4	9
89	Modelling Timeouts without Timelocks. Lecture Notes in Computer Science, 1999, , 334-353.	1.3	13
90	From ACT-ONE to Miranda, a translation experiment. Computer Standards and Interfaces, 1998, 19, 31-49.	5.4	3

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91	A LOTOS based tutorial on formal methods for object-oriented distributed systems. New Generation Computing, 1998, 16, 343-372.	3.3	1
92	Specifying and Refining Internal Operations in Z. Formal Aspects of Computing, 1998, 10, 125-159.	1.8	20
93	Cross-viewpoint consistency in open distributed processing. Software Engineering Journal, 1996, 11, 44.	0.7	16
94	Formal description of distributed multimedia systems: an assessment of potential techniques. Computer Communications, 1995, 18, 964-977.	5.1	5
95	Formal specification and verification of multimedia systems in open distributed processing. Computer Standards and Interfaces, 1995, 17, 413-436.	5.4	11
96	FDTs for ODP. Computer Standards and Interfaces, 1995, 17, 457-479.	5.4	32