

Suzanna Becker

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

3,980
citations

159585

30
h-index

149698

56
g-index

72
all docs

72
docs citations

72
times ranked

3804
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathologies of precision: A Bayesian account of goals, habits, and episodic foresight in addiction. <i>Brain and Cognition</i> , 2022, 158, 105843.	1.8	5
2	BCI Illiteracy: It's Us, Not Them. Optimizing BCIs for Individual Brains. , 2022, , .		5
3	Dynamic task-linked switching between brain networks – A tri-network perspective. <i>Brain and Cognition</i> , 2021, 151, 105725.	1.8	19
4	Visual perspective as a two-dimensional construct in episodic future thought. <i>Consciousness and Cognition</i> , 2021, 93, 103148.	1.5	6
5	Recovery of High Interference Memory in Spite of Lingering Cognitive Deficits in a Longitudinal Pilot Study of Hospitalized Depressed Patients. <i>Frontiers in Psychiatry</i> , 2020, 11, 736.	2.6	1
6	Using Deep Learning Algorithms to Grade Hydronephrosis Severity: Toward a Clinical Adjunct. <i>Frontiers in Pediatrics</i> , 2020, 8, 1.	1.9	103
7	Capturing the Forest but Missing the Trees: Microstates Inadequate for Characterizing Shorter-Scale EEG Dynamics. <i>Neural Computation</i> , 2019, 31, 2177-2211.	2.2	19
8	Impact of a structured, group-based running programme on clinical, cognitive and social function in youth and adults with complex mood disorders: a 12-week pilot study. <i>BMJ Open Sport and Exercise Medicine</i> , 2019, 5, e000521.	2.9	2
9	Grading Prenatal Hydronephrosis from Ultrasound Imaging Using Deep Convolutional Neural Networks. , 2018, , .		8
10	Progressive Thresholding: Shaping and Specificity in Automated Neurofeedback Training. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 2297-2305.	4.9	7
11	Effects of a 12-week running programme in youth and adults with complex mood disorders. <i>BMJ Open Sport and Exercise Medicine</i> , 2018, 4, e000314.	2.9	20
12	Early Intervention with a Multi-Ingredient Dietary Supplement Improves Mood and Spatial Memory in a Triple Transgenic Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2018, 64, 835-857.	2.6	10
13	Neurogenesis and pattern separation: time for a divorce. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2017, 8, e1427.	2.8	35
14	Emotional reaction recognition from EEG. , 2017, , .		4
15	Toward an Open-Ended BCI: A User-Centered Coadaptive Design. <i>Neural Computation</i> , 2017, 29, 2742-2768.	2.2	8
16	The Effects of Physical Exercise and Cognitive Training on Memory and Neurotrophic Factors. <i>Journal of Cognitive Neuroscience</i> , 2017, 29, 1895-1907.	2.3	90
17	Restricted Boltzmann Machine Models of Hippocampal Coding and Neurogenesis. , 2017, , 443-461.		0
18	A Brain-Computer Interface Based on Abstract Visual and Auditory Imagery: Evidence for an Effect of Artistic Training. <i>Lecture Notes in Computer Science</i> , 2017, , 313-332.	1.3	3

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19	Stress and binge drinking: A toxic combination for the teenage brain. <i>Neuropsychologia</i> , 2016, 90, 251-260.	1.6	10
20	Marrâ€™s theory of the hippocampus as a simple memory. , 2016, , 159-178.		1
21	Neurogenesis paradoxically decreases both pattern separation and memory interference. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 136.	2.5	39
22	Emotional memory in pregnant women at risk for postpartum depression. <i>Psychiatry Research</i> , 2015, 229, 777-783.	3.3	10
23	Synergistic effects of diet and exercise on hippocampal function in chronically stressed mice. <i>Neuroscience</i> , 2015, 308, 180-193.	2.3	29
24	A role for adult hippocampal neurogenesis at multiple time scales: A study of recent and remote memory in humans.. <i>Behavioral Neuroscience</i> , 2015, 129, 435-449.	1.2	22
25	Examining the role of the temporo-parietal network in memory, imagery, and viewpoint transformations. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 709.	2.0	42
26	One spatial map or many? Spatial coding of connected environments.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2014, 40, 511-531.	0.9	31
27	Adult hippocampal neurogenesis reduces memory interference in humans: opposing effects of aerobic exercise and depression. <i>Frontiers in Neuroscience</i> , 2013, 7, 66.	2.8	145
28	The role of adult hippocampal neurogenesis in reducing interference.. <i>Behavioral Neuroscience</i> , 2012, 126, 381-391.	1.2	54
29	Adult hippocampal neurogenesis and memory interference. <i>Behavioural Brain Research</i> , 2012, 227, 464-469.	2.2	62
30	When Do Objects Become Landmarks? A VR Study of the Effect of Task Relevance on Spatial Memory. <i>PLoS ONE</i> , 2012, 7, e35940.	2.5	6
31	Peer victimization, depressive symptoms, and high salivary cortisol predict poorer memory in children. <i>Brain and Cognition</i> , 2011, 77, 191-199.	1.8	55
32	Can homeostatic plasticity in deafferented primary auditory cortex lead to travelling waves of excitation?. <i>Journal of Computational Neuroscience</i> , 2011, 30, 279-299.	1.0	38
33	Preface to the special issue on computational cognitive neuroscience. <i>Brain Research</i> , 2010, 1365, 1-2.	2.2	0
34	Computational Models of Millisecond Level Duration Tuning in Neural Circuits. <i>Journal of Neuroscience</i> , 2009, 29, 9255-9270.	3.6	43
35	Computational modeling and empirical studies of hippocampal neurogenesis-dependent memory: Effects of interference, stress and depression. <i>Brain Research</i> , 2009, 1299, 45-54.	2.2	62
36	Computational cognitive neuroscience. <i>Brain Research</i> , 2009, 1299, 1-2.	2.2	10

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37	Preface to the special issue: Computational cognitive neuroscience. Brain Research, 2008, 1202, 1-2.	2.2	0
38	A neural network model of hippocampalâ€“striatalâ€“prefrontal interactions in contextual conditioning. Brain Research, 2008, 1202, 87-98.	2.2	9
39	A Principle for Learning Egocentric-Allocentric Transformation. Neural Computation, 2008, 20, 709-737.	2.2	26
40	Linking Animal Models of Psychosis to Computational Models of Dopamine Function. Neuropsychopharmacology, 2007, 32, 54-66.	5.4	35
41	A model of hippocampal neurogenesis in memory and mood disorders. Trends in Cognitive Sciences, 2007, 11, 70-76.	7.8	169
42	Remembering the past and imagining the future: A neural model of spatial memory and imagery.. Psychological Review, 2007, 114, 340-375.	3.8	796
43	A Spiking Neuron Model of Cortical Correlates of Sensorineural Hearing Loss: Spontaneous Firing, Synchrony, and Tinnitus. Neural Computation, 2006, 18, 2942-2958.	2.2	64
44	A model of grounded language acquisition: Sensorimotor features improve lexical and grammatical learning. Journal of Memory and Language, 2005, 53, 258-276.	2.1	50
45	A computational principle for hippocampal learning and neurogenesis. Hippocampus, 2005, 15, 722-738.	1.9	211
46	A Novel Model-Based Hearing Compensation Design Using a Gradient-Free Optimization Method. Neural Computation, 2005, 17, 2648-2671.	2.2	9
47	A Computational Model of the Functional Role of the Ventral-Striatal D2 Receptor in the Expression of Previously Acquired Behaviors. Neural Computation, 2005, 17, 361-395.	2.2	30
48	Modeling Mental Navigation in Scenes with Multiple Objects. Neural Computation, 2004, 16, 1851-1872.	2.2	7
49	Development of a flexible, realistic hearing in noise test environment (R-HINT-E). Signal Processing, 2004, 84, 299-309.	3.7	11
50	Stochastic Correlative Learning Algorithms. IEEE Transactions on Signal Processing, 2004, 52, 2200-2209.	5.3	16
51	A Computational Model of Prefrontal Control in Free Recall: Strategic Memory Use in the California Verbal Learning Task. Journal of Cognitive Neuroscience, 2003, 15, 821-832.	2.3	74
52	From Dopamine to Psychosis: A Computational Approach. Lecture Notes in Computer Science, 2003, , 1115-1121.	1.3	0
53	Associative Arithmetic with Boltzmann Machines: The Role of Number Representations. Lecture Notes in Computer Science, 2002, , 277-283.	1.3	7
54	Memory for events and their spatial context: models and experiments. , 2002, , 249-268.		0

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55	Memory for events and their spatial context: models and experiments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001, 356, 1493-1503.	4.0	291
56	Implicit Learning in 3D Object Recognition: The Importance of Temporal Context. <i>Neural Computation</i> , 1999, 11, 347-374.	2.2	46
57	Long-term semantic priming: A computational account and empirical evidence.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1997, 23, 1059-1082.	0.9	216
58	The long and short of semantic priming effects in lexical decision.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1997, 23, 1083-1105.	0.9	153
59	Long-term semantic priming: A computational account and empirical evidence.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1997, 23, 1059-1082.	0.9	68
60	Mutual information maximization: models of cortical self-organization. <i>Network: Computation in Neural Systems</i> , 1996, 7, 7-31.	3.6	71
61	Unsupervised neural network learning procedures for feature extraction and classification. <i>Applied Intelligence</i> , 1996, 6, 185-203.	5.3	51
62	Title is missing!. <i>Network: Computation in Neural Systems</i> , 1996, 7, 7-31.	3.6	102
63	Model Synapses with Frequency Potentiation Characteristics Can Cooperatively Enhance Hebbian Learning. , 1995, , 197-202.		2
64	Learning Mixture Models of Spatial Coherence. <i>Neural Computation</i> , 1993, 5, 267-277.	2.2	42
65	Self-organizing neural network that discovers surfaces in random-dot stereograms. <i>Nature</i> , 1992, 355, 161-163.	27.8	325
66	UNSUPERVISED LEARNING PROCEDURES FOR NEURAL NETWORKS. <i>International Journal of Neural Systems</i> , 1991, 02, 17-33.	5.2	58
67	<title>Learning spatially coherent properties of the visual world in connectionist networks</title>. , 1991, , .		0
68	Combined Aerobic Exercise and Neurofeedback Lead to Improved Task-Relevant Intrinsic Network Synchrony. <i>Frontiers in Human Neuroscience</i> , 0, 16, .	2.0	0