

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	Remembering the past and imagining the future: A neural model of spatial memory and imagery.. Psychological Review, 2007, 114, 340-375.	3.8	796
2	Self-organizing neural network that discovers surfaces in random-dot stereograms. Nature, 1992, 355, 161-163.	27.8	325
3	Memory for events and their spatial context: models and experiments. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1493-1503.	4.0	291
4	Long-term semantic priming: A computational account and empirical evidence.. Journal of Experimental Psychology: Learning Memory and Cognition, 1997, 23, 1059-1082.	0.9	216
5	A computational principle for hippocampal learning and neurogenesis. Hippocampus, 2005, 15, 722-738.	1.9	211
6	A model of hippocampal neurogenesis in memory and mood disorders. Trends in Cognitive Sciences, 2007, 11, 70-76.	7.8	169
7	The long and short of semantic priming effects in lexical decision.. Journal of Experimental Psychology: Learning Memory and Cognition, 1997, 23, 1083-1105.	0.9	153
8	Adult hippocampal neurogenesis reduces memory interference in humans: opposing effects of aerobic exercise and depression. Frontiers in Neuroscience, 2013, 7, 66.	2.8	145
9	Using Deep Learning Algorithms to Grade Hydronephrosis Severity: Toward a Clinical Adjunct. Frontiers in Pediatrics, 2020, 8, 1.	1.9	103
10	Title is missing!. Network: Computation in Neural Systems, 1996, 7, 7-31.	3.6	102
11	The Effects of Physical Exercise and Cognitive Training on Memory and Neurotrophic Factors. Journal of Cognitive Neuroscience, 2017, 29, 1895-1907.	2.3	90
12	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
13	Mutual information maximization: models of cortical self-organization. Network: Computation in Neural Systems, 1996, 7, 7-31.	3.6	71
14	Long-term semantic priming: A computational account and empirical evidence.. Journal of Experimental Psychology: Learning Memory and Cognition, 1997, 23, 1059-1082.	0.9	68
15	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
16	Computational modeling and empirical studies of hippocampal neurogenesis-dependent memory: Effects of interference, stress and depression. Brain Research, 2009, 1299, 45-54.	2.2	62
17	Adult hippocampal neurogenesis and memory interference. Behavioural Brain Research, 2012, 227, 464-469.	2.2	62
18	UNSUPERVISED LEARNING PROCEDURES FOR NEURAL NETWORKS. International Journal of Neural Systems, 1991, 02, 17-33.	5.2	58

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19	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
20	The role of adult hippocampal neurogenesis in reducing interference.. <i>Behavioral Neuroscience</i> , 2012, 126, 381-391.	1.2	54
21	Unsupervised neural network learning procedures for feature extraction and classification. <i>Applied Intelligence</i> , 1996, 6, 185-203.	5.3	51
22	A model of grounded language acquisition: Sensorimotor features improve lexical and grammatical learning. <i>Journal of Memory and Language</i> , 2005, 53, 258-276.	2.1	50
23	Implicit Learning in 3D Object Recognition: The Importance of Temporal Context. <i>Neural Computation</i> , 1999, 11, 347-374.	2.2	46
24	Computational Models of Millisecond Level Duration Tuning in Neural Circuits. <i>Journal of Neuroscience</i> , 2009, 29, 9255-9270.	3.6	43
25	Learning Mixture Models of Spatial Coherence. <i>Neural Computation</i> , 1993, 5, 267-277.	2.2	42
26	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
27	Neurogenesis paradoxically decreases both pattern separation and memory interference. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 136.	2.5	39
28	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
29	Linking Animal Models of Psychosis to Computational Models of Dopamine Function. <i>Neuropsychopharmacology</i> , 2007, 32, 54-66.	5.4	35
30	Neurogenesis and pattern separation: time for a divorce. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2017, 8, e1427.	2.8	35
31	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
32	A Computational Model of the Functional Role of the Ventral-Striatal D2 Receptor in the Expression of Previously Acquired Behaviors. <i>Neural Computation</i> , 2005, 17, 361-395.	2.2	30
33	Synergistic effects of diet and exercise on hippocampal function in chronically stressed mice. <i>Neuroscience</i> , 2015, 308, 180-193.	2.3	29
34	A Principle for Learning Egocentric-Allocentric Transformation. <i>Neural Computation</i> , 2008, 20, 709-737.	2.2	26
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Dynamic task-linked switching between brain networks – A tri-network perspective. <i>Brain and Cognition</i> , 2021, 151, 105725.	1.8	19
39	Stochastic Correlative Learning Algorithms. <i>IEEE Transactions on Signal Processing</i> , 2004, 52, 2200-2209.	5.3	16
40	Development of a flexible, realistic hearing in noise test environment (R-HINT-E). <i>Signal Processing</i> , 2004, 84, 299-309.	3.7	11
41	Computational cognitive neuroscience. <i>Brain Research</i> , 2009, 1299, 1-2.	2.2	10
42	Emotional memory in pregnant women at risk for postpartum depression. <i>Psychiatry Research</i> , 2015, 229, 777-783.	3.3	10
43	Stress and binge drinking: A toxic combination for the teenage brain. <i>Neuropsychologia</i> , 2016, 90, 251-260.	1.6	10
44	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
45	A Novel Model-Based Hearing Compensation Design Using a Gradient-Free Optimization Method. <i>Neural Computation</i> , 2005, 17, 2648-2671.	2.2	9
46	A neural network model of hippocampal–striatal–prefrontal interactions in contextual conditioning. <i>Brain Research</i> , 2008, 1202, 87-98.	2.2	9
47	Toward an Open-Ended BCI: A User-Centered Coadaptive Design. <i>Neural Computation</i> , 2017, 29, 2742-2768.	2.2	8
48	Grading Prenatal Hydronephrosis from Ultrasound Imaging Using Deep Convolutional Neural Networks. , 2018, , .		8
49	Modeling Mental Navigation in Scenes with Multiple Objects. <i>Neural Computation</i> , 2004, 16, 1851-1872.	2.2	7
50	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
51	Associative Arithmetic with Boltzmann Machines: The Role of Number Representations. <i>Lecture Notes in Computer Science</i> , 2002, , 277-283.	1.3	7
52	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
53	Visual perspective as a two-dimensional construct in episodic future thought. <i>Consciousness and Cognition</i> , 2021, 93, 103148.	1.5	6
54	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

#	ARTICLE	IF	CITATIONS
55	BCI Illiteracy: It's Us, Not Them. Optimizing BCIs for Individual Brains. , 2022, , .		5
56	Emotional reaction recognition from EEG. , 2017, , .		4
57	A Brain-Computer Interface Based on Abstract Visual and Auditory Imagery: Evidence for an Effect of Artistic Training. Lecture Notes in Computer Science, 2017, , 313-332.	1.3	3
58	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. BMJ Open Sport and Exercise Medicine, 2019, 5, e000521.	2.9	2
59	Model Synapses with Frequency Potentiation Characteristics Can Cooperatively Enhance Hebbian Learning. , 1995, , 197-202.		2
60	Recovery of High Interference Memory in Spite of Lingering Cognitive Deficits in a Longitudinal Pilot Study of Hospitalized Depressed Patients. Frontiers in Psychiatry, 2020, 11, 736.	2.6	1
61	Marr's theory of the hippocampus as a simple memory. , 2016, , 159-178.		1
62	Preface to the special issue: Computational cognitive neuroscience. Brain Research, 2008, 1202, 1-2.	2.2	0
63	Preface to the special issue on computational cognitive neuroscience. Brain Research, 2010, 1365, 1-2.	2.2	0
64	Restricted Boltzmann Machine Models of Hippocampal Coding and Neurogenesis. , 2017, , 443-461.		0
65	Memory for events and their spatial context: models and experiments. , 2002, , 249-268.		0
66	From Dopamine to Psychosis: A Computational Approach. Lecture Notes in Computer Science, 2003, , 1115-1121.	1.3	0
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. Frontiers in Human Neuroscience, 0, 16, .	2.0	0