Catherine E Myers

List of Publications by Year
in descending order

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132 papers	5,542 citations	81900 39 h-index	98798 67 g-index
138 all docs	138 docs citations	138 times ranked	4536 citing authors

#	Article	IF	Citations
1	Pyridostigmine bromide, chlorpyrifos, and DEET combined Gulf War exposure insult depresses mitochondrial function in neuroblastoma cells. Journal of Biochemical and Molecular Toxicology, 2021, 35, e22913.	3.0	6
2	Attentional control may be modifiable with Mindfulness-Based Cognitive Therapy to Prevent Suicide. Behaviour Research and Therapy, 2021, 147, 103988.	3.1	7
3	Towards the objective assessment of suicidal states: Some neurocognitive deficits may be temporally related to suicide attempt. Psychiatry Research, 2020, 287, 112624.	3.3	14
4	Dataset of active avoidance in Wistar-Kyoto and Sprague Dawley rats: Experimental data and reinforcement learning model code and output. Data in Brief, 2020, 32, 106074.	1.0	0
5	Demonstrating and disrupting well-learned habits. PLoS ONE, 2020, 15, e0234424.	2.5	7
6	A reinforcement-learning model of active avoidance behavior: Differences between Sprague Dawley and Wistar-Kyoto rats. Behavioural Brain Research, 2020, 393, 112784.	2.2	7
7	Maladaptive avoidance patterns in Parkinsonâ€™s disease are exacerbated by symptoms of depression. Behavioural Brain Research, 2020, 382, 112473.	2.2	2
8	A pilot study of escape, avoidance, and approach behaviors in treated alcohol-dependent males. Journal of Clinical and Experimental Neuropsychology, 2019, 41, 601-614.	1.3	3
9	Learning functions in short-term cocaine users. Addictive Behaviors Reports, 2019, 9, 100169.	1.9	4
10	Inhibited Personality Temperaments Translated Through Enhanced Avoidance and Associative Learning Increase Vulnerability for PTSD. Frontiers in Psychology, 2019, 10, 496.	2.1	13
11	ABCA7 risk variant in healthy older African Americans is associated with a functionally isolated entorhinal cortex mediating deficient generalization of prior discrimination training. Hippocampus, 2019, 29, 527-538.	1.9	21
12	Impairment of memory generalization in preclinical autosomal dominant Alzheimer's disease mutation carriers. Neurobiology of Aging, 2018, 65, 149-157.	3.1	7
13	Post-traumatic stress symptoms are associated with better performance on a delayed match-to-position task. PeerJ, 2018, 6, e4701.	2.0	2
14	Intolerance of uncertainty and conditioned place preference in opioid addiction. PeerJ, 2018, 6, e4775.	2.0	9
15	Greater avoidance behavior in individuals with posttraumatic stress disorder symptoms. Stress, 2017, 20, 285-293.	1.8	31
16	Reward and punishment-based compound cue learning and generalization in opiate dependency. Experimental Brain Research, 2017, 235, 3153-3162.	1.5	3
17	Learning and generalization from reward and punishment in opioid addiction. Behavioural Brain Research, 2017, 317, 122-131.	2.2	27
18	Stress-Related Mental Health Symptoms in Coast Guard: Incidence, Vulnerability, and Neurocognitive Performance. Frontiers in Psychology, 2017, 8, 1513.	2.1	15

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19	Beyond Behavioral Inhibition: A Computer Avatar Task Designed to Assess Behavioral Inhibition Extends to Harm Avoidance. Frontiers in Psychology, 2017, 8, 1560.	2.1	10
20	Depression Reduces Accuracy While Parkinsonism Slows Response Time for Processing Positive Feedback in Patients with Parkinsonâ€™s Disease with Comorbid Major Depressive Disorder Tested on a Probabilistic Category-Learning Task. Frontiers in Psychiatry, 2017, 8, 84.	2.6	16
21	Intolerance of uncertainty in opioid dependency â€“ Relationship with trait anxiety and impulsivity. PLoS ONE, 2017, 12, e0181955.	2.5	28
22	Post-traumatic stress disorder symptom burden and gender each affect generalization in a reward- and punishment-learning task. PLoS ONE, 2017, 12, e0172144.	2.5	9
23	Exaggerated Acquisition and Resistance to Extinction of Avoidance Behavior in Treated Heroin-Dependent Men. Journal of Clinical Psychiatry, 2016, 77, 386-394.	2.2	27
24	The Personality Trait of Intolerance to Uncertainty Affects Behavior in a Novel Computer-Based Conditioned Place Preference Task. Frontiers in Psychology, 2016, 7, 1175.	2.1	19
25	Deficits in hippocampalâ€dependent transfer generalization learning accompany synaptic dysfunction in a mouse model of amyloidosis. Hippocampus, 2016, 26, 455-471.	1.9	8
26	Beyond symptom self-report: use of a computer â€œavatarâ€•to assess post-traumatic stress disorder (PTSD) symptoms. Stress, 2016, 19, 593-598.	1.8	19
27	Watch what I do, not what I say I do: Computer-based avatars to assess behavioral inhibition, a vulnerability factor for anxiety disorders. Computers in Human Behavior, 2016, 55, 804-816.	8.5	10
28	Probabilistic reward- and punishment-based learning in opioid addiction: Experimental and computational data. Behavioural Brain Research, 2016, 296, 240-248.	2.2	51
29	Corruption of the dentate gyrus by â€œdominantâ€•granule cells: Implications for dentate gyrus function in health and disease. Neurobiology of Learning and Memory, 2016, 129, 69-82.	1.9	33
30	Amnesic patients show superior generalization in category learning.. Neuropsychology, 2016, 30, 915-919.	1.3	6
31	The personality trait of behavioral inhibition modulates perceptions of moral character and performance during the trust game: behavioral results and computational modeling. PeerJ, 2016, 4, e1631.	2.0	7
32	The influence of trial order on learning from reward vs. punishment in a probabilistic categorization task: experimental and computational analyses. Frontiers in Behavioral Neuroscience, 2015, 9, 153.	2.0	12
33	Altered activity of the medial prefrontal cortex and amygdala during acquisition and extinction of an active avoidance task. Frontiers in Behavioral Neuroscience, 2015, 9, 249.	2.0	22
34	The Role of Informative and Ambiguous Feedback in Avoidance Behavior: Empirical and Computational Findings. PLoS ONE, 2015, 10, e0144083.	2.5	5
35	Testing the role of reward and punishment sensitivity in avoidance behavior: A computational modeling approach. Behavioural Brain Research, 2015, 283, 121-138.	2.2	34
36	Increased generalization of learned associations is related to re-experiencing symptoms in veterans with symptoms of post-traumatic stress. Stress, 2015, 18, 484-489.	1.8	16

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37	Using signals associated with safety in avoidance learning: computational model of sex differences. PeerJ, 2015, 3, e1081.	2.0	3
38	Absence of Ã¢â‚¬Å“Warm-UpÃ¢â‚¬Â•during Active Avoidance Learning in a Rat Model of Anxiety Vulnerability: Insights from Computational Modeling. Frontiers in Behavioral Neuroscience, 2014, 8, 283.	2.0	11
39	Effects of Psychotropic Agents on Extinction of Lever-Press Avoidance in a Rat Model of Anxiety Vulnerability. Frontiers in Behavioral Neuroscience, 2014, 8, 322.	2.0	6
40	Acquisition and Extinction of Human Avoidance Behavior: Attenuating Effect of Safety Signals and Associations with Anxiety Vulnerabilities. Frontiers in Behavioral Neuroscience, 2014, 8, 323.	2.0	50
41	Avoidance prone individuals self reporting behavioral inhibition exhibit facilitated acquisition and altered extinction of conditioned eyeblinks with partial reinforcement schedules. Frontiers in Behavioral Neuroscience, 2014, 8, 347.	2.0	26
42	ITI-Signals and Prelimbic Cortex Facilitate Avoidance Acquisition and Reduce Avoidance Latencies, Respectively, in Male WKY Rats. Frontiers in Behavioral Neuroscience, 2014, 8, 403.	2.0	12
43	Acquired Equivalence in U.S. Veterans With Symptoms of Posttraumatic Stress: Reexperiencing Symptoms Are Associated With Greater Generalization. Journal of Traumatic Stress, 2014, 27, 717-720.	1.8	21
44	Hippocampal BOLD response during category learning predicts subsequent performance on transfer generalization. Human Brain Mapping, 2014, 35, 3122-3131.	3.6	6
45	Behaviourally inhibited temperament and female sex, two vulnerability factors for anxiety disorders, facilitate conditioned avoidance (also) in humans. Behavioural Processes, 2014, 103, 228-235.	1.1	47
46	Avoidance as expectancy in rats: sex and strain differences in acquisition. Frontiers in Behavioral Neuroscience, 2014, 8, 334.	2.0	14
47	A decrement in probabilistic category learning in cocaine users after controlling for marijuana and alcohol use.. Experimental and Clinical Psychopharmacology, 2014, 22, 65-74.	1.8	9
48	Why trace and delay conditioning are sometimes (but not always) hippocampal dependent: A computational model. Brain Research, 2013, 1493, 48-67.	2.2	27
49	Depression impairs learning, whereas the selective serotonin reuptake inhibitor, paroxetine, impairs generalization in patients with major depressive disorder. Journal of Affective Disorders, 2013, 151, 484-492.	4.1	27
50	A model of amygdalaâ€“hippocampalâ€“prefrontal interaction in fear conditioning and extinction in animals. Brain and Cognition, 2013, 81, 29-43.	1.8	94
51	Enhanced avoidance learning in behaviorally inhibited young men and women. Stress, 2013, 16, 289-299.	1.8	27
52	The Influence of Ectopic Migration of Granule Cells into the Hilus on Dentate Gyrus-CA3 Function. PLoS ONE, 2013, 8, e68208.	2.5	63
53	Learning to Obtain Reward, but Not Avoid Punishment, Is Affected by Presence of PTSD Symptoms in Male Veterans: Empirical Data and Computational Model. PLoS ONE, 2013, 8, e72508.	2.5	44
54	Learning from negative feedback in patients with major depressive disorder is attenuated by SSRI antidepressants. Frontiers in Integrative Neuroscience, 2013, 7, 67.	2.1	58

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55	Learning and Generalization in Healthy Aging. Cognitive and Behavioral Neurology, 2012, 25, 7-15.	0.9	9
56	Behaviorally inhibited temperament is associated with severity of post-traumatic stress disorder symptoms and faster eyeblink conditioning in veterans. Stress, 2012, 15, 31-44.	1.8	54
57	Impaired Generalization of Associative Learning in Patients with Alcohol Dependence After Intermediate-term Abstinence. Alcohol and Alcoholism, 2012, 47, 533-537.	1.6	13
58	Individuals with posttraumatic stress disorder show a selective deficit in generalization of associative learning.. Neuropsychology, 2012, 26, 758-767.	1.3	38
59	Behavioral inhibition and PTSD symptoms in veterans. Psychiatry Research, 2012, 196, 271-276.	3.3	50
60	The Relationship between Associative Learning, Transfer Generalization, and Homocysteine Levels in Mild Cognitive Impairment. PLoS ONE, 2012, 7, e46496.	2.5	22
61	Enhanced conditioned eyeblink response acquisition and proactive interference in anxiety vulnerable individuals. Frontiers in Behavioral Neuroscience, 2012, 6, 76.	2.0	18
62	Hilar mossy cells of the dentate gyrus: a historical perspective. Frontiers in Neural Circuits, 2012, 6, 106.	2.8	158
63	Procedural Learning in Schizophrenia: Reconciling the Discrepant Findings. Biological Psychiatry, 2011, 69, 49-54.	1.3	22
64	General functioning predicts reward and punishment learning in schizophrenia. Schizophrenia Research, 2011, 127, 131-136.	2.0	42
65	Vulnerability factors in anxiety: Strain and sex differences in the use of signals associated with non-threat during the acquisition and extinction of active-avoidance behavior. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2011, 35, 1659-1670.	4.8	36
66	Pattern separation in the dentate gyrus: A role for the CA3 backprojection. Hippocampus, 2011, 21, 1190-1215.	1.9	109
67	Depression Impairs Learning Whereas Anticholinergics Impair Transfer Generalization in Parkinson Patients Tested on Dopaminergic Medications. Cognitive and Behavioral Neurology, 2010, 23, 98-105.	0.9	21
68	Î±-Synuclein gene duplication impairs reward learning. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15992-15994.	7.1	32
69	Using an animal learning model of the hippocampus to simulate human fMRI data. , 2010, , .		1
70	Relative Risk of Probabilistic Category Learning Deficits in Patients with Schizophrenia and Their Siblings. Biological Psychiatry, 2010, 67, 948-955.	1.3	36
71	A neural model of hippocampalâ€“striatal interactions in associative learning and transfer generalization in various neurological and psychiatric patients. Brain and Cognition, 2010, 74, 132-144.	1.8	43
72	Reward-learning and the novelty-seeking personality: a between- and within-subjects study of the effects of dopamine agonists on young Parkinson's patients. Brain, 2009, 132, 2385-2395.	7.6	310

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73	Sleep enhances category learning. Learning and Memory, 2009, 16, 751-755.	1.3	91
74	Neural Correlates of Probabilistic Category Learning in Patients with Schizophrenia. Journal of Neuroscience, 2009, 29, 1244-1254.	3.6	69
75	Dopaminergic Drugs Modulate Learning Rates and Perseveration in Parkinson's Patients in a Dynamic Foraging Task. Journal of Neuroscience, 2009, 29, 15104-15114.	3.6	213
76	Distinct Hippocampal and Basal Ganglia Contributions to Probabilistic Learning and Reversal. Journal of Cognitive Neuroscience, 2009, 21, 1820-1832.	2.3	61
77	A neurocomputational model of classical conditioning phenomena: A putative role for the hippocampal region in associative learning. Brain Research, 2009, 1276, 180-195.	2.2	39
78	A role for hilar cells in pattern separation in the dentate gyrus: A computational approach. Hippocampus, 2009, 19, 321-337.	1.9	162
79	Associative Learning, Acquired Equivalence, and Flexible Generalization of Knowledge in Mild Alzheimer Disease. Cognitive and Behavioral Neurology, 2009, 22, 89-94.	0.9	37
80	The role of the orbitofrontal cortex in human discrimination learning. Neuropsychologia, 2008, 46, 1326-1337.	1.6	23
81	How to find the way out from four rooms? The learning of â€œchainingâ€•associations may shed light on the neuropsychology of the deficit syndrome of schizophrenia. Schizophrenia Research, 2008, 99, 200-207.	2.0	34
82	Stimulusâ€“response learning in long-term cocaine users: Acquired equivalence and probabilistic category learning. Drug and Alcohol Dependence, 2008, 93, 155-162.	3.2	22
83	Associative Learning Over Trials Activates the Hippocampus in Healthy Elderly but not Mild Cognitive Impairment. Aging, Neuropsychology, and Cognition, 2008, 15, 129-145.	1.3	33
84	Learning and Generalization Tasks Predict Short-Term Cognitive Outcome in Nondemented Elderly. Journal of Geriatric Psychiatry and Neurology, 2008, 21, 93-103.	2.3	21
85	Learning and generalization deficits in patients with memory impairments due to anterior communicating artery aneurysm rupture or hypoxic brain injury.. Neuropsychology, 2008, 22, 681-686.	1.3	35
86	Associative learning in deficit and nondeficit schizophrenia. NeuroReport, 2008, 19, 55-58.	1.2	34
87	Cognitive sequence learning in Parkinson's disease and amnestic mild cognitive impairment: Dissociation between sequential and non-sequential learning of associations. Neuropsychologia, 2007, 45, 1386-1392.	1.6	33
88	l-dopa impairs learning, but spares generalization, in Parkinson's disease. Neuropsychologia, 2006, 44, 774-784.	1.6	135
89	Computational Models of the Hippocampal Region: Implications for Prediction of Risk for Alzheimers Disease in Non-demented Elderly. Current Alzheimer Research, 2006, 3, 247-257.	1.4	17
90	Strategies in probabilistic categorization: Results from a new way of analyzing performance. Learning and Memory, 2006, 13, 230-239.	1.3	58

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91	Integrating Incremental Learning and Episodic Memory Models of the Hippocampal Region.. Psychological Review, 2005, 112, 560-585.	3.8	47
92	Cortico-hippocampal interaction and adaptive stimulus representation: A neurocomputational theory of associative learning and memory. Neural Networks, 2005, 18, 1265-1279.	5.9	22
93	Neural Mechanisms Underlying Probabilistic Category Learning in Normal Aging. Journal of Neuroscience, 2005, 25, 11340-11348.	3.6	95
94	The role of dopamine in cognitive sequence learning: evidence from Parkinsonâ€™s disease. Behavioural Brain Research, 2005, 156, 191-199.	2.2	99
95	Dissociation between medial temporal lobe and basal ganglia memory systems in schizophrenia. Schizophrenia Research, 2005, 77, 321-328.	2.0	60
96	Impaired probabilistic category learning in hypoxic subjects with hippocampal damage. Neuropsychologia, 2004, 42, 524-535.	1.6	94
97	Role of the Basal Ganglia in Category Learning: How Do Patients With Parkinson's Disease Learn?. Behavioral Neuroscience, 2004, 118, 676-686.	1.2	158
98	Dissociating medial temporal and basal ganglia memory systems with a latent learning task. Neuropsychologia, 2003, 41, 1919-1928.	1.6	36
99	Dissociating Hippocampal versus Basal Ganglia Contributions to Learning and Transfer. Journal of Cognitive Neuroscience, 2003, 15, 185-193.	2.3	184
100	Computational models of the hippocampal region: linking incremental learning and episodic memory. Trends in Cognitive Sciences, 2003, 7, 269-276.	7.8	74
101	Selectively Impaired Associative Learning in Older People with Cognitive Decline. Journal of Cognitive Neuroscience, 2002, 14, 484-492.	2.3	33
102	How do People Solve the â€œWeather Predictionâ€•Task?: Individual Variability in Strategies for Probabilistic Category Learning. Learning and Memory, 2002, 9, 408-418.	1.3	213
103	A connectionist model of septohippocampal dynamics during conditioning: Closing the loop.. Behavioral Neuroscience, 2002, 116, 48-62.	1.2	27
104	Neural Network Approaches to Eyeblink Classical Conditioning. , 2002, , 229-255.		1
105	Hippocampal Atrophy Disrupts Transfer Generalization in Nondemented Elderly. Journal of Geriatric Psychiatry and Neurology, 2002, 15, 82-90.	2.3	61
106	A comparison of latent inhibition and learned irrelevance pre-exposure effects in rabbit and human eyeblink conditioning. Integrative Psychological and Behavioral Science, 2002, 37, 188-214.	0.3	22
107	Dissociating basal forebrain and medial temporal amnesic syndromes: Insights from classical conditioning. Integrative Psychological and Behavioral Science, 2002, 37, 85-102.	0.3	11
108	Selective hippocampal lesions disrupt a novel cue effect but fail to eliminate blocking in rabbit eyeblink conditioning. Cognitive, Affective and Behavioral Neuroscience, 2002, 2, 318-328.	2.0	11

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109	A connectionist model of septohippocampal dynamics during conditioning: closing the loop. Behavioral Neuroscience, 2002, 116, 48-62.	1.2	13
110	Cerebellar Substrates for Error Correction in Motor Conditioning. Neurobiology of Learning and Memory, 2001, 76, 314-341.	1.9	41
111	Impaired delay eyeblink classical conditioning in individuals with anterograde amnesia resulting from anterior communicating artery aneurysm rupture.. Behavioral Neuroscience, 2001, 115, 560-570.	1.2	22
112	Parallel neural systems for classical conditioning: Support from computational modeling. Integrative Psychological and Behavioral Science, 2001, 36, 36-61.	0.3	7
113	A computational model of mechanisms controlling experience-dependent reorganization of representational maps in auditory cortex. Cognitive, Affective and Behavioral Neuroscience, 2001, 1, 37-55.	2.0	16
114	Latent learning in medial temporal amnesia: Evidence for disrupted representational but preserved attentional processes.. Neuropsychology, 2000, 14, 3-15.	1.3	12
115	A dynamic model of learning in the septo-hippocampal system. Neurocomputing, 2000, 32-33, 501-507.	5.9	2
116	Modeling auditory cortical processing as an adaptive chirplet transform. Neurocomputing, 2000, 32-33, 913-919.	5.9	13
117	Stimulus exposure effects in human associative learning. Quarterly Journal of Experimental Psychology Section B: Comparative and Physiological Psychology, 2000, 53, 173-187.	2.8	9
118	Stimulus exposure effects in human associative learning. Quarterly Journal of Experimental Psychology Section B: Comparative and Physiological Psychology, 2000, 53, 173-187.	2.8	4
119	Conditional spatial discrimination in humans with hypoxic brain injury. Cognitive, Affective and Behavioral Neuroscience, 2000, 28, 275-282.	1.3	9
120	Psychobiological Models of Hippocampal Function in Learning and Memory. , 1998, , 417-448.		3
121	Further implications of a computational model of septohippocampal cholinergic modulation in eyeblink conditioning. Cognitive, Affective and Behavioral Neuroscience, 1998, 26, 1-20.	1.3	21
122	Extending Models of Hippocampal Function in Animal Conditioning to Human Amnesia. Memory, 1997, 5, 179-212.	1.7	46
123	PSYCHOBIOLOGICAL MODELS OF HIPPOCAMPAL FUNCTION IN LEARNING AND MEMORY. Annual Review of Psychology, 1997, 48, 481-514.	17.7	102
124	A Neural-Network Approach to Adaptive Similarity and Stimulus Representations in Cortico-Hippocampal Function. Advances in Psychology, 1997, 121, 220-241.	0.1	0
125	A Computational Model of Cholinergic Disruption of Septohippocampal Activity in Classical Eyeblink Conditioning. Neurobiology of Learning and Memory, 1996, 66, 51-66.	1.9	67
126	Cortico-hippocampal representations in simultaneous odor discrimination: A computational interpretation of Eichenbaum, Mathews, and Cohen (1989).. Behavioral Neuroscience, 1996, 110, 685-706.	1.2	25

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127	Integrating behavioral and physiological models of hippocampal function. , 1996, 6, 643-653.		17
128	Representation and Association in Memory: A Neurocomputational View of Hippocampal Function. Current Directions in Psychological Science, 1995, 4, 23-29.	5.3	25
129	Dissociation of hippocampal and entorhinal function in associative learning: A computational approach. Cognitive, Affective and Behavioral Neuroscience, 1995, 23, 116-138.	1.3	54
130	A computational perspective on dissociating hippocampal and entorhinal function. Behavioral and Brain Sciences, 1994, 17, 476-477.	0.7	9
131	Context, conditioning, and hippocampal rerepresentation in animal learning.. Behavioral Neuroscience, 1994, 108, 835-847.	1.2	122
132	Hippocampal mediation of stimulus representation: A computational theory. Hippocampus, 1993, 3, 491-516.	1.9	453