

# Carolyn W Harley

## List of Publications by Year in descending order

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55  
papers

2,726  
citations

331259

21  
h-index

197535

49  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2572  
citing authors

#	ARTICLE	IF	CITATIONS
1	Norepinephrine ignites local hotspots of neuronal excitation: How arousal amplifies selectivity in perception and memory. <i>Behavioral and Brain Sciences</i> , 2016, 39, e200.	0.4	410
2	The Locus Coeruleus: Essential for Maintaining Cognitive Function and the Aging Brain. <i>Trends in Cognitive Sciences</i> , 2016, 20, 214-226.	4.0	339
3	Locus coeruleus: a new look at the blue spot. <i>Nature Reviews Neuroscience</i> , 2020, 21, 644-659.	4.9	316
4	Novelty-elicited, Noradrenaline-dependent Enhancement of Excitability in the Dentate Gyrus. <i>European Journal of Neuroscience</i> , 1997, 9, 41-47.	1.2	128
5	Norepinephrine and the dentate gyrus. <i>Progress in Brain Research</i> , 2007, 163, 299-318.	0.9	118
6	Norepinephrine and Dopamine as Learning Signals. <i>Neural Plasticity</i> , 2004, 11, 191-204.	1.0	103
7	Locus Coeruleus Activation Initiates Delayed Synaptic Potentiation of Perforant Path Input to the Dentate Gyrus in Awake Rats: A Novel $\alpha$ -Adrenergic- and Protein Synthesis-Dependent Mammalian Plasticity Mechanism. <i>Journal of Neuroscience</i> , 2004, 24, 598-604.	1.7	102
8	Locus Coeruleus Activation Suppresses Feedforward Interneurons and Reduces $\delta$ - $\delta$ Electroencephalogram Frequencies While It Enhances $\delta$ Frequencies in Rat Dentate Gyrus. <i>Journal of Neuroscience</i> , 2005, 25, 1985-1991.	1.7	102
9	Orexin-A Infusion in the Locus Coeruleus Triggers Norepinephrine (NE) Release and NE-Induced Long-Term Potentiation in the Dentate Gyrus. <i>Journal of Neuroscience</i> , 2004, 24, 7421-7426.	1.7	96
10	pCREB in the Neonate Rat Olfactory Bulb Is Selectively and Transiently Increased by Odor Preference-Conditioned Training. <i>Learning and Memory</i> , 1999, 6, 608-618.	0.5	81
11	Early Odor Preference Learning in the Rat: Bidirectional Effects of cAMP Response Element-Binding Protein (CREB) and Mutant CREB Support a Causal Role for Phosphorylated CREB. <i>Journal of Neuroscience</i> , 2003, 23, 4760-4765.	1.7	63
12	Locus coeruleus bursts induced by glutamate trigger delayed perforant path spike amplitude potentiation in the dentate gyrus. <i>Experimental Brain Research</i> , 1992, 89, 581-7.	0.7	55
13	Optical Imaging of Odor Preference Memory in the Rat Olfactory Bulb. <i>Journal of Neurophysiology</i> , 2002, 87, 3156-3159.	0.9	54
14	A comparison of glycogen phosphorylase and cytochrome oxidase histochemical staining in rat brain. <i>Journal of Comparative Neurology</i> , 1992, 322, 377-389.	0.9	51
15	A role for the anterior piriform cortex in early odor preference learning: evidence for multiple olfactory learning structures in the rat pup. <i>Journal of Neurophysiology</i> , 2013, 110, 141-152.	0.9	42
16	Arc-Expressing Neuronal Ensembles Supporting Pattern Separation Require Adrenergic Activity in Anterior Piriform Cortex: An Exploration of Neural Constraints on Learning. <i>Journal of Neuroscience</i> , 2015, 35, 14070-14075.	1.7	42
17	An experimental model of Braak's pretangle proposal for the origin of Alzheimer's disease: the role of locus coeruleus in early symptom development. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 59.	3.0	37
18	$\alpha$ 1-Adrenoceptor or $\alpha$ 1-adrenoceptor activation initiates early odor preference learning in rat pups: Support for the mitral cell/cAMP model of odor preference learning. <i>Learning and Memory</i> , 2006, 13, 8-13.	0.5	36

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19	Locus Coeruleus Phasic, But Not Tonic, Activation Initiates Global Remapping in a Familiar Environment. <i>Journal of Neuroscience</i> , 2019, 39, 445-455.	1.7	36
20	Olfactory Bulb Glomerular NMDA Receptors Mediate Olfactory Nerve Potentiation and Odor Preference Learning in the Neonate Rat. <i>PLoS ONE</i> , 2012, 7, e35024.	1.1	34
21	Arc Visualization of Odor Objects Reveals Experience-Dependent Ensemble Sharpening, Separation, and Merging in Anterior Piriform Cortex in Adult Rat. <i>Journal of Neuroscience</i> , 2014, 34, 10206-10210.	1.7	28
22	?-Adrenergic blockade in the dentate gyrus in vivo prevents high frequency-induced long-term potentiation of EPSP slope, but not long-term potentiation of population spike amplitude. <i>Hippocampus</i> , 2001, 11, 322-328.	0.9	26
23	Odor preference learning and memory modify GluA1 phosphorylation and GluA1 distribution in the neonate rat olfactory bulb: Testing the AMPA receptor hypothesis in an appetitive learning model. <i>Learning and Memory</i> , 2011, 18, 283-291.	0.5	24
24	Locus Coeruleus Optogenetic Light Activation Induces Long-Term Potentiation of Perforant Path Population Spike Amplitude in Rat Dentate Gyrus. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 67.	1.2	24
25	Visualizing the Engram: Learning Stabilizes Odor Representations in the Olfactory Network. <i>Journal of Neuroscience</i> , 2014, 34, 15394-15401.	1.7	22
26	An associativity requirement for locus coeruleus-induced long-term potentiation in the dentate gyrus of the urethane-anesthetized rat. <i>Experimental Brain Research</i> , 2010, 200, 151-159.	0.7	21
27	Pheromone-Induced Odor Associative Fear Learning in Rats. <i>Scientific Reports</i> , 2018, 8, 17701.	1.6	21
28	A temporal-specific and transient cAMP increase characterizes odorant classical conditioning. <i>Learning and Memory</i> , 2007, 14, 126-133.	0.5	20
29	Mechanisms Underlying Early Odor Preference Learning in Rats. <i>Progress in Brain Research</i> , 2014, 208, 115-156.	0.9	20
30	Infusion of the metabotropic receptor agonist, DCG-IV, into the main olfactory bulb induces olfactory preference learning in rat pups. <i>Developmental Brain Research</i> , 2001, 128, 177-179.	2.1	19
31	Novelty-like activation of locus coeruleus protects against deleterious human pretangle tau effects while stress-inducing activation worsens its effects. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2021, 7, e12231.	1.8	19
32	Mammalian intermediate-term memory: New findings in neonate rat. <i>Neurobiology of Learning and Memory</i> , 2011, 95, 385-391.	1.0	18
33	PKA increases in the olfactory bulb act as unconditioned stimuli and provide evidence for parallel memory systems: Pairing odor with increased PKA creates intermediate- and long-term, but not short-term, memories. <i>Learning and Memory</i> , 2012, 19, 107-115.	0.5	16
34	Lateralized Odor Preference Training in Rat Pups Reveals an Enhanced Network Response in Anterior Piriform Cortex to Olfactory Input That Parallels Extended Memory. <i>Journal of Neuroscience</i> , 2013, 33, 15126-15131.	1.7	16
35	GANEing traction: The broad applicability of NE hotspots to diverse cognitive and arousal phenomena. <i>Behavioral and Brain Sciences</i> , 2016, 39, e228.	0.4	16
36	Locus Coeruleus Activation Patterns Differentially Modulate Odor Discrimination Learning and Odor Valence in Rats. <i>Cerebral Cortex Communications</i> , 2021, 2, tgab026.	0.7	15

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37	Epac activation initiates associative odor preference memories in the rat pup. <i>Learning and Memory</i> , 2015, 22, 74-82.	0.5	14
38	Daily variation in the distribution of glycogen phosphorylase in the suprachiasmatic nucleus of Syrian hamsters. <i>Journal of Comparative Neurology</i> , 2001, 435, 249-258.	0.9	13
39	Olfactory bulb $\beta$ -adrenoceptor activation promotes rat pup odor-preference learning via a cAMP-independent mechanism. <i>Learning and Memory</i> , 2012, 19, 499-502.	0.5	13
40	Modulation of the perforant path-evoked potential in dentate gyrus as a function of intrahippocampal $\beta$ -adrenoceptor agonist concentration in urethane-anesthetized rat. <i>Brain and Behavior</i> , 2014, 4, 95-103.	1.0	12
41	The $\alpha$ , $\beta$ $\beta$ -forms of pretangle tau and their relation to aging and the risk of Alzheimer's Disease. <i>Seminars in Cell and Developmental Biology</i> , 2021, 116, 125-134.	2.3	12
42	What a nostril knows: Olfactory nerve-evoked AMPA responses increase while NMDA responses decrease at 24-h post-training for lateralized odor preference memory in neonate rat. <i>Learning and Memory</i> , 2012, 19, 50-53.	0.5	11
43	A Cognitive Rehabilitation Paradigm Effective in Male Rats Lacks Efficacy in Female Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1673-1680.	2.4	11
44	Emotional arousal amplifies competitions across goal-relevant representation: A neurocomputational framework. <i>Cognition</i> , 2019, 187, 108-125.	1.1	11
45	Learning-Induced Metaplasticity? Associative Training for Early Odor Preference Learning Down-Regulates Synapse-Specific NMDA Receptors via mGluR and Calcineurin Activation. <i>Cerebral Cortex</i> , 2015, 27, bhv256.	1.6	9
46	CaMKII mediates stimulus specificity in early odor preference learning in rats. <i>Journal of Neurophysiology</i> , 2016, 116, 404-410.	0.9	9
47	Histone deacetylase inhibition induces odor preference memory extension and maintains enhanced AMPA receptor expression in the rat pup model. <i>Learning and Memory</i> , 2017, 24, 543-551.	0.5	9
48	Norepinephrine and serotonin axonal dynamics and clinical depression: a commentary on the interaction between serotonergic and noradrenergic axons during axonal regeneration. <i>Experimental Neurology</i> , 2003, 184, 24-26.	2.0	7
49	Lost in time: rats are unable to return to a start location that varies. <i>Connection Science</i> , 2005, 17, 127-144.	1.8	7
50	Hippocampal spatial mapping and the acquisition of competing responses. <i>Hippocampus</i> , 2014, 24, 396-402.	0.9	7
51	Locus Coeruleus Optogenetic Modulation: Lessons Learned from Temporal Patterns. <i>Brain Sciences</i> , 2021, 11, 1624.	1.1	7
52	Learning-induced mRNA alterations in olfactory bulb mitral cells in neonatal rats. <i>Learning and Memory</i> , 2020, 27, 209-221.	0.5	3
53	Revisiting metaplasticity: The roles of calcineurin and histone deacetylation in unlearning odor preference memory in rat pups. <i>Neurobiology of Learning and Memory</i> , 2018, 154, 62-69.	1.0	1
54	Learning modulation of odor representations: new findings from Arc-indexed networks. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 423.	1.8	0

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55	Using Molecular Biology to Address Locus Coeruleus Modulation of Hippocampal Plasticity and Learning. Handbook of Behavioral Neuroscience, 2018, 28, 349-364.	0.7	0