Carolyn W Harley

List of Publications by Year
in descending order

55 papers	2,726 citations	331670 21 h-index	197818 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. Behavioral and Brain Sciences, 2016, 39, e200.	0.7	410
2	The Locus Coeruleus: Essential for Maintaining Cognitive Function and the Aging Brain. Trends in Cognitive Sciences, 2016, 20, 214-226.	7.8	339
3	Locus coeruleus: a new look at the blue spot. Nature Reviews Neuroscience, 2020, 21, 644-659.	10.2	316
4	Novelty-elicited, Noradrenaline-dependent Enhancement of Excitability in the Dentate Gyrus. European Journal of Neuroscience, 1997, 9, 41-47.	2.6	128
5	Norepinephrine and the dentate gyrus. Progress in Brain Research, 2007, 163, 299-318.	1.4	118
6	Norepinephrine and Dopamine as Learning Signals. Neural Plasticity, 2004, 11, 191-204.	2.2	103
7	Locus Ceruleus Activation Initiates Delayed Synaptic Potentiation of Perforant Path Input to the Dentate Gyrus in Awake Rats: A Novel Â-Adrenergic- and Protein Synthesis-Dependent Mammalian Plasticity Mechanism. Journal of Neuroscience, 2004, 24, 598-604.	3.6	102
8	Locus Ceruleus Activation Suppresses Feedforward Interneurons and Reduces Â-Â Electroencephalogram Frequencies While It Enhances Â Frequencies in Rat Dentate Gyrus. Journal of Neuroscience, 2005, 25, 1985-1991.	3.6	102
9	Orexin-A Infusion in the Locus Ceruleus Triggers Norepinephrine (NE) Release and NE-Induced Long-Term Potentiation in the Dentate Gyrus. Journal of Neuroscience, 2004, 24, 7421-7426.	3.6	96
10	pCREB in the Neonate Rat Olfactory Bulb Is Selectively and Transiently Increased by Odor Preferenceâ€"Conditioned Training. Learning and Memory, 1999, 6, 608-618.	1.3	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. Journal of Neuroscience, 2003, 23, 4760-4765.	3.6	63
12	Locus coeruleus bursts induced by glutamate trigger delayed perforant path spike amplitude potentiation in the dentate gyrus. Experimental Brain Research, 1992, 89, 581-7.	1.5	55
13	Optical Imaging of Odor Preference Memory in the Rat Olfactory Bulb. Journal of Neurophysiology, 2002, 87, 3156-3159.	1.8	54
14	A comparison of glycogen phosphorylasea and cytochrome oxidase histochemical staining in rat brain. Journal of Comparative Neurology, 1992, 322, 377-389.	1.6	51
15	A role for the anterior piriform cortex in early odor preference learning: evidence for multiple olfactory learning structures in the rat pup. Journal of Neurophysiology, 2013, 110, 141-152.	1.8	42
16	Arc-Expressing Neuronal Ensembles Supporting Pattern Separation Require Adrenergic Activity in Anterior Piriform Cortex: An Exploration of Neural Constraints on Learning. Journal of Neuroscience, 2015, 35, 14070-14075.	3.6	42
17	An experimental model of Braakâ€™s pretangle proposal for the origin of Alzheimerâ€™s disease: the role of locus coeruleus in early symptom development. Alzheimer's Research and Therapy, 2019, 11, 59.	6.2	37
18	Â1-Adrenoceptor or Â1-adrenoceptor activation initiates early odor preference learning in rat pups: Support for the mitral cell/cAMP model of odor preference learning. Learning and Memory, 2006, 13, 8-13.	1.3	36

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19	Locus Coeruleus Phasic, But Not Tonic, Activation Initiates Global Remapping in a Familiar Environment. Journal of Neuroscience, 2019, 39, 445-455.	3.6	36
20	Olfactory Bulb Glomerular NMDA Receptors Mediate Olfactory Nerve Potentiation and Odor Preference Learning in the Neonate Rat. PLoS ONE, 2012, 7, e35024.	2.5	34
21	Arc Visualization of Odor Objects Reveals Experience-Dependent Ensemble Sharpening, Separation, and Merging in Anterior Piriform Cortex in Adult Rat. Journal of Neuroscience, 2014, 34, 10206-10210.	3.6	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. Hippocampus, 2001, 11, 322-328.	1.9	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. Learning and Memory, 2011, 18, 283-291.	1.3	24
24	Locus Coeruleus Optogenetic Light Activation Induces Long-Term Potentiation of Perforant Path Population Spike Amplitude in Rat Dentate Gyrus. Frontiers in Systems Neuroscience, 2018, 12, 67.	2.5	24
25	Visualizing the Engram: Learning Stabilizes Odor Representations in the Olfactory Network. Journal of Neuroscience, 2014, 34, 15394-15401.	3.6	22
26	An associativity requirement for locus coeruleus-induced long-term potentiation in the dentate gyrus of the urethane-anesthetized rat. Experimental Brain Research, 2010, 200, 151-159.	1.5	21
27	Pheromone-Induced Odor Associative Fear Learning in Rats. Scientific Reports, 2018, 8, 17701.	3.3	21
28	A temporal-specific and transient cAMP increase characterizes odorant classical conditioning. Learning and Memory, 2007, 14, 126-133.	1.3	20
29	Mechanisms Underlying Early Odor Preference Learning in Rats. Progress in Brain Research, 2014, 208, 115-156.	1.4	20
30	Infusion of the metabotropic receptor agonist, DCG-IV, into the main olfactory bulb induces olfactory preference learning in rat pups. Developmental Brain Research, 2001, 128, 177-179.	1.7	19
31	Noveltyâ€like activation of locus coeruleus protects against deleterious human pretangle tau effects while stressâ€inducing activation worsens its effects. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2021, 7, e12231.	3.7	19
32	Mammalian intermediate-term memory: New findings in neonate rat. Neurobiology of Learning and Memory, 2011, 95, 385-391.	1.9	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. Learning and Memory, 2012, 19, 107-115.	1.3	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. Journal of Neuroscience, 2013, 33, 15126-15131.	3.6	16
35	GANEing traction: The broad applicability of NE hotspots to diverse cognitive and arousal phenomena. Behavioral and Brain Sciences, 2016, 39, e228.	0.7	16
36	Locus Coeruleus Activation Patterns Differentially Modulate Odor Discrimination Learning and Odor Valence in Rats. Cerebral Cortex Communications, 2021, 2, tgab026.	1.6	15

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37	Epac activation initiates associative odor preference memories in the rat pup. Learning and Memory, 2015, 22, 74-82.	1.3	14
38	Daily variation in the distribution of glycogen phosphorylase in the suprachiasmatic nucleus of Syrian hamsters. Journal of Comparative Neurology, 2001, 435, 249-258.	1.6	13
39	Olfactory bulb Î±₂-adrenoceptor activation promotes rat pup odor-preference learning via a cAMP-independent mechanism. Learning and Memory, 2012, 19, 499-502.	1.3	13
40	Modulation of the perforant pathâ€evoked potential in dentate gyrus as a function of intrahippocampal Î² â€adrenoceptor agonist concentration in urethaneâ€anesthetized rat. Brain and Behavior, 2014, 4, 95-103.	2.2	12
41	The â€˜a, b, câ€™s of pretangle tau and their relation to aging and the risk of Alzheimerâ€™s Disease. Seminars in Cell and Developmental Biology, 2021, 116, 125-134.	5.0	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. Learning and Memory, 2012, 19, 50-53.	1.3	11
43	A Cognitive Rehabilitation Paradigm Effective in Male Rats Lacks Efficacy in Female Rats. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1673-1680.	4.3	11
44	Emotional arousal amplifies competitions across goal-relevant representation: A neurocomputational framework. Cognition, 2019, 187, 108-125.	2.2	11
45	Learning-Induced Metaplasticity? Associative Training for Early Odor Preference Learning Down-Regulates Synapse-Specific NMDA Receptors via mGluR and Calcineurin Activation. Cerebral Cortex, 2015, 27, bhv256.	2.9	9
46	CaMKII mediates stimulus specificity in early odor preference learning in rats. Journal of Neurophysiology, 2016, 116, 404-410.	1.8	9
47	Histone deacetylase inhibition induces odor preference memory extension and maintains enhanced AMPA receptor expression in the rat pup model. Learning and Memory, 2017, 24, 543-551.	1.3	9
48	Norepinephrine and serotonin axonal dynamics and clinical depression: a commentary on the interaction between serotonergic and noradrenergic axons during axonal regeneration. Experimental Neurology, 2003, 184, 24-26.	4.1	7
49	Lost in time: rats are unable to return to a start location that varies. Connection Science, 2005, 17, 127-144.	3.0	7
50	Hippocampal spatial mapping and the acquisition of competing responses. Hippocampus, 2014, 24, 396-402.	1.9	7
51	Locus Coeruleus Optogenetic Modulation: Lessons Learned from Temporal Patterns. Brain Sciences, 2021, 11, 1624.	2.3	7
52	Learning-induced mRNA alterations in olfactory bulb mitral cells in neonatal rats. Learning and Memory, 2020, 27, 209-221.	1.3	3
53	Revisiting metaplasticity: The roles of calcineurin and histone deacetylation in unlearning odor preference memory in rat pups. Neurobiology of Learning and Memory, 2018, 154, 62-69.	1.9	1
54	Learning modulation of odor representations: new findings from Arc-indexed networks. Frontiers in Cellular Neuroscience, 2014, 8, 423.	3.7	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