Timothy C Roth

List of Publications by Year
in descending order

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37 papers	1,163 citations	516561 16 h-index	395590 33 g-index
37 all docs	37 docs citations	37 times ranked	973 citing authors

#	Article	IF	Citations
1	Hippocampal volumes and neuron numbers increase along a gradient of environmental harshness: a large-scale comparison. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 401-405.	1.2	125
2	Cognitive Ecology of Food Hoarding: The Evolution of Spatial Memory and the Hippocampus. Annual Review of Ecology, Evolution, and Systematics, 2013, 44, 173-193.	3.8	120
3	Learning capabilities enhanced in harsh environments: a common garden approach. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3187-3193.	1.2	104
4	Variation in memory and the hippocampus across populations from different climates: a common garden approach. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 402-410.	1.2	104
5	Hippocampal memory consolidation during sleep: a comparison of mammals and birds. Biological Reviews, 2011, 86, 658-691.	4.7	103
6	Is bigger always better? A critical appraisal of the use of volumetric analysis in the study of the hippocampus. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 915-931.	1.8	82
7	The ecological relevance of sleep: the trade-off between sleep, memory and energy conservation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 945-959.	1.8	69
8	Sleep Ecophysiology: Integrating Neuroscience and Ecology. Trends in Ecology and Evolution, 2016, 31, 590-599.	4.2	67
9	The Role of Age-Specific Learning and Experience for Turtles Navigating a Changing Landscape. Current Biology, 2015, 25, 333-337.	1.8	45
10	Hybrid chickadees are deficient in learning and memory. Evolution; International Journal of Organic Evolution, 2018, 72, 1155-1164.	1.1	38
11	Hippocampal neuron soma size is associated with population differences in winter climate severity in foodâ€caching chickadees. Functional Ecology, 2013, 27, 1341-1349.	1.7	33
12	Variation in hippocampal morphology along an environmental gradient: controlling for the effects of day length. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2662-2667.	1.2	27
13	Evidence for long-term spatial memory in a parid. Animal Cognition, 2012, 15, 149-154.	0.9	23
14	Interaction between territoriality, spatial environment, and hippocampal neurogenesis in male side-blotched lizards.. Behavioral Neuroscience, 2013, 127, 555-565.	0.6	23
15	Potential Mechanisms Driving Population Variation in Spatial Memory and the Hippocampus in Food-caching Chickadees. Integrative and Comparative Biology, 2015, 55, 354-371.	0.9	23
16	Reptilian Cognition: A More Complex Picture via Integration of Neurological Mechanisms, Behavioral Constraints, and Evolutionary Context. BioEssays, 2019, 41, e1900033.	1.2	20
17	Variation in hippocampal glial cell numbers in foodâ€caching birds from different climates. Developmental Neurobiology, 2013, 73, 480-485.	1.5	16
18	Sleep loss impairs cognitive performance and alters song output in Australian magpies. Scientific Reports, 2022, 12, 6645.	1.6	15

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19	Cognition-centered conservation as a means of advancing integrative animal behavior. Current Opinion in Behavioral Sciences, 2015, 6, 1-6.	2.0	13
20	Turtles outsmart rapid environmental change: The role of cognition in navigation. Communicative and Integrative Biology, 2015, 8, e1052922.	0.6	12
21	Pharmacological evidence is consistent with a prominent role of spatial memory in complex navigation. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152548.	1.2	12
22	No effect of social group composition or size on hippocampal formation morphology and neurogenesis in mountain chickadees (poecile gambeli). Developmental Neurobiology, 2010, 70, NA-NA.	1.5	11
23	Environmental experiences influence cortical volume in territorial and nonterritorial side-blotched lizards, Uta stansburiana. Animal Behaviour, 2016, 115, 11-18.	0.8	10
24	Of molecules, memories and migration: M1 acetylcholine receptors facilitate spatial memory formation and recall during migratory navigation. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181904.	1.2	10
25	Variation in Brain Regions Associated with Fear and Learning in Contrasting Climates. Brain, Behavior and Evolution, 2012, 79, 181-190.	0.9	9
26	A multiâ€trait, fieldâ€based examination of personality in a semiâ€aquatic turtle. Ethology, 2020, 126, 851-857.	0.5	9
27	Homeostatic regulation of NREM sleep, but not REM sleep, in Australian magpies. Sleep, 2022, 45, .	0.6	8
28	My way is the highway: the role of plasticity in learning complex migration routes. Animal Behaviour, 2021, 174, 161-167.	0.8	7
29	Morphological changes in hippocampal cytoarchitecture as a function of spatial treatment in birds. Developmental Neurobiology, 2017, 77, 93-101.	1.5	6
30	Thinking about Change: An Integrative Approach for Examining Cognition in a Changing World. Integrative and Comparative Biology, 2015, 55, 347-353.	0.9	5
31	Phylogenetic patterns in learning and decision making in pit vipers (Viperidae: Crotalinae). Animal Behaviour, 2018, 145, 117-123.	0.8	5
32	Increased Testosterone Decreases Medial Cortical Volume and Neurogenesis in Territorial Side-Blotched Lizards (Uta stansburiana). Frontiers in Neuroscience, 2017, 11, 97.	1.4	4
33	Tough times call for bigger brains. Communicative and Integrative Biology, 2009, 2, 236-238.	0.6	2
34	Using Pharmacological Manipulation and High-precision Radio Telemetry to Study the Spatial Cognition in Free-ranging Animals. Journal of Visualized Experiments, 2016, , .	0.2	2
35	The geomagnetic field does not appear to influence navigation in Eastern painted turtles. Ethology, 2021, 127, 246-252.	0.5	1
36	Testudines Life History. , 2018, , 1-7.		0

#	Article	IF	Citations
37	Testudines Life History. , 2022, , 6931-6937.		0