Timothy C Roth

List of Publications by Year
in descending order

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	Homeostatic regulation of NREM sleep, but not REM sleep, in Australian magpies. Sleep, 2022, 45, .	0.6	8
2	Sleep loss impairs cognitive performance and alters song output in Australian magpies. Scientific Reports, 2022, 12, 6645.	1.6	15
3	Testudines Life History. , 2022, , 6931-6937.		0
4	My way is the highway: the role of plasticity in learning complex migration routes. Animal Behaviour, 2021, 174, 161-167.	0.8	7
5	The geomagnetic field does not appear to influence navigation in Eastern painted turtles. Ethology, 2021, 127, 246-252.	0.5	1
6	A multiâ€trait, fieldâ€based examination of personality in a semiâ€aquatic turtle. Ethology, 2020, 126, 851-857.	0.5	9
7	Reptilian Cognition: A More Complex Picture via Integration of Neurological Mechanisms, Behavioral Constraints, and Evolutionary Context. BioEssays, 2019, 41, e1900033.	1.2	20
8	Hybrid chickadees are deficient in learning and memory. Evolution; International Journal of Organic Evolution, 2018, 72, 1155-1164.	1.1	38
9	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
10	Phylogenetic patterns in learning and decision making in pit vipers (Viperidae: Crotalinae). Animal Behaviour, 2018, 145, 117-123.	0.8	5
11	Testudines Life History. , 2018, , 1-7.		0
12	Morphological changes in hippocampal cytoarchitecture as a function of spatial treatment in birds. Developmental Neurobiology, 2017, 77, 93-101.	1.5	6
13	Increased Testosterone Decreases Medial Cortical Volume and Neurogenesis in Territorial Side-Blotched Lizards (Uta stansburiana). Frontiers in Neuroscience, 2017, 11, 97.	1.4	4
14	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
15	Sleep Ecophysiology: Integrating Neuroscience and Ecology. Trends in Ecology and Evolution, 2016, 31, 590-599.	4.2	67
16	Environmental experiences influence cortical volume in territorial and nonterritorial side-blotched lizards, Uta stansburiana. Animal Behaviour, 2016, 115, 11-18.	0.8	10
17	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
18	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

#	Article	IF	Citations
19	Thinking about Change: An Integrative Approach for Examining Cognition in a Changing World. Integrative and Comparative Biology, 2015, 55, 347-353.	0.9	5
20	Cognition-centered conservation as a means of advancing integrative animal behavior. Current Opinion in Behavioral Sciences, 2015, 6, 1-6.	2.0	13
21	Turtles outsmart rapid environmental change: The role of cognition in navigation. Communicative and Integrative Biology, 2015, 8, e1052922.	0.6	12
22	The Role of Age-Specific Learning and Experience for Turtles Navigating a Changing Landscape. Current Biology, 2015, 25, 333-337.	1.8	45
23	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
24	Variation in hippocampal glial cell numbers in foodâ€caching birds from different climates. Developmental Neurobiology, 2013, 73, 480-485.	1.5	16
25	Interaction between territoriality, spatial environment, and hippocampal neurogenesis in male side-blotched lizards.. Behavioral Neuroscience, 2013, 127, 555-565.	0.6	23
26	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
27	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
28	Variation in Brain Regions Associated with Fear and Learning in Contrasting Climates. Brain, Behavior and Evolution, 2012, 79, 181-190.	0.9	9
29	Evidence for long-term spatial memory in a parid. Animal Cognition, 2012, 15, 149-154.	0.9	23
30	Hippocampal memory consolidation during sleep: a comparison of mammals and birds. Biological Reviews, 2011, 86, 658-691.	4.7	103
31	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
32	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
33	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
34	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
35	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
36	Tough times call for bigger brains. Communicative and Integrative Biology, 2009, 2, 236-238.	0.6	2

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37	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