

Alex Thornton

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

5,638
citations

101496

36
h-index

85498

71
g-index

90
all docs

90
docs citations

90
times ranked

4031
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimentally induced innovations lead to persistent culture via conformity in wild birds. <i>Nature</i> , 2015, 518, 538-541.	13.7	597
2	Teaching in Wild Meerkats. <i>Science</i> , 2006, 313, 227-229.	6.0	410
3	Applications of machine learning in animal behaviour studies. <i>Animal Behaviour</i> , 2017, 124, 203-220.	0.8	344
4	Individual variation in cognitive performance: developmental and evolutionary perspectives. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2773-2783.	1.8	263
5	The evolution of teaching. <i>Animal Behaviour</i> , 2008, 75, 1823-1836.	0.8	247
6	Punishment and cooperation in nature. <i>Trends in Ecology and Evolution</i> , 2012, 27, 288-295.	4.2	244
7	Lessons from animal teaching. <i>Trends in Ecology and Evolution</i> , 2008, 23, 486-493.	4.2	217
8	Cognitive performance is linked to group size and affects fitness in Australian magpies. <i>Nature</i> , 2018, 554, 364-367.	13.7	205
9	Social learning and the development of individual and group behaviour in mammal societies. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 978-987.	1.8	172
10	Innovative problem solving in wild meerkats. <i>Animal Behaviour</i> , 2012, 83, 1459-1468.	0.8	168
11	What is cumulative cultural evolution?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180712.	1.2	159
12	The Evolution of Individual and Cultural Variation in Social Learning. <i>Trends in Ecology and Evolution</i> , 2016, 31, 215-225.	4.2	149
13	Neophobia is not only avoidance: improving neophobia tests by combining cognition and ecology. <i>Current Opinion in Behavioral Sciences</i> , 2015, 6, 82-89.	2.0	148
14	Measuring and understanding individual differences in cognition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170280.	1.8	148
15	Animal cultures matter for conservation. <i>Science</i> , 2019, 363, 1032-1034.	6.0	136
16	Toward wild psychometrics: linking individual cognitive differences to fitness. <i>Behavioral Ecology</i> , 2014, 25, 1299-1301.	1.0	106
17	Comparative cognition for conservationists. <i>Trends in Ecology and Evolution</i> , 2014, 29, 489-495.	4.2	105
18	Experimental evidence for social transmission of food acquisition techniques in wild meerkats. <i>Animal Behaviour</i> , 2009, 78, 255-264.	0.8	91

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19	Cognitive requirements of cumulative culture: teaching is useful but not essential. <i>Scientific Reports</i> , 2015, 5, 16781.	1.6	77
20	Identifying teaching in wild animals. <i>Learning and Behavior</i> , 2010, 38, 297-309.	0.5	73
21	Street smart: faster approach towards litter in urban areas by highly neophobic corvids and less fearful birds. <i>Animal Behaviour</i> , 2016, 117, 123-133.	0.8	71
22	A deepening understanding of animal culture suggests lessons for conservation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202718.	1.2	65
23	Costs and benefits of social relationships in the collective motion of bird flocks. <i>Nature Ecology and Evolution</i> , 2019, 3, 943-948.	3.4	63
24	Teaching can teach us a lot. <i>Animal Behaviour</i> , 2012, 83, e6-e9.	0.8	60
25	Seasonal changes in neophobia and its consistency in rooks: the effect of novelty type and dominance position. <i>Animal Behaviour</i> , 2016, 121, 11-20.	0.8	58
26	An intraspecific appraisal of the social intelligence hypothesis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170288.	1.8	57
27	Variation in contributions to teaching by meerkats. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1745-1751.	1.2	56
28	Social learning about novel foods in young meerkats. <i>Animal Behaviour</i> , 2008, 76, 1411-1421.	0.8	55
29	Teachers in the wild: some clarification. <i>Trends in Cognitive Sciences</i> , 2007, 11, 272-273.	4.0	53
30	Cognitive consequences of cooperative breeding? A critical appraisal. <i>Journal of Zoology</i> , 2015, 295, 12-22.	0.8	50
31	Heterogeneous structure in mixed-species corvid flocks in flight. <i>Animal Behaviour</i> , 2013, 85, 743-750.	0.8	49
32	The rise and fall of an arbitrary tradition: an experiment with wild meerkats. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1269-1276.	1.2	47
33	Behavioural plasticity and the transition to order in jackdaw flocks. <i>Nature Communications</i> , 2019, 10, 5174.	5.8	47
34	Gaze sensitivity: function and mechanisms from sensory and cognitive perspectives. <i>Animal Behaviour</i> , 2014, 87, 3-15.	0.8	45
35	Identification of Learning Mechanisms in a Wild Meerkat Population. <i>PLoS ONE</i> , 2012, 7, e42044.	1.1	43
36	Early body condition, time budgets and the acquisition of foraging skills in meerkats. <i>Animal Behaviour</i> , 2008, 75, 951-962.	0.8	41

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37	Animal Cognition in an Urbanised World. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	40
38	Local interactions and their group-level consequences in flocking jackdaws. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190865.	1.2	39
39	Multi-generational persistence of traditions in neighbouring meerkat groups. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3623-3629.	1.2	37
40	Counting conformity: evaluating the units of information in frequency-dependent social learning. <i>Animal Behaviour</i> , 2015, 110, e5-e8.	0.8	34
41	The Role of Animal Cognition in Human-Wildlife Interactions. <i>Frontiers in Psychology</i> , 2020, 11, 589978.	1.1	33
42	Contagious risk taking: social information and context influence wild jackdaws's responses to novelty and risk. <i>Scientific Reports</i> , 2016, 6, 27764.	1.6	32
43	Wild jackdaws, <i>Corvus monedula</i> , recognize individual humans and may respond to gaze direction with defensive behaviour. <i>Animal Behaviour</i> , 2015, 108, 17-24.	0.8	29
44	Caller characteristics influence recruitment to collective anti-predator events in jackdaws. <i>Scientific Reports</i> , 2018, 8, 7343.	1.6	27
45	Collective turns in jackdaw flocks: kinematics and information transfer. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190450.	1.5	26
46	Salient eyes deter conspecific nest intruders in wild jackdaws (<i>Corvus monedula</i>). <i>Biology Letters</i> , 2014, 10, 20131077.	1.0	24
47	Larger group sizes facilitate the emergence and spread of innovations in a group-living bird. <i>Animal Behaviour</i> , 2019, 158, 1-7.	0.8	24
48	The impacts of heat stress on animal cognition: Implications for adaptation to a changing climate. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2021, 12, e713.	3.6	24
49	Evolution of iris colour in relation to cavity nesting and parental care in passerine birds. <i>Biology Letters</i> , 2017, 13, 20160783.	1.0	22
50	Simultaneous measurements of three-dimensional trajectories and wingbeat frequencies of birds in the field. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180653.	1.5	22
51	Harnessing learning biases is essential for applying social learning in conservation. <i>Behavioral Ecology and Sociobiology</i> , 2017, 71, 16.	0.6	21
52	Fundamental problems with the cooperative breeding hypothesis. A reply to Burkart & van Schaik. <i>Journal of Zoology</i> , 2016, 299, 84-88.	0.8	20
53	Evidence for individual discrimination and numerical assessment in collective antipredator behaviour in wild jackdaws (<i>Corvus monedula</i>). <i>Biology Letters</i> , 2019, 15, 20190380.	1.0	20
54	Wild jackdaws's reproductive success and their offspring's stress hormones are connected to provisioning rate and brood size, not to parental neophobia. <i>General and Comparative Endocrinology</i> , 2017, 243, 70-77.	0.8	19

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55	Human mate-choice copying is domain-general social learning. <i>Scientific Reports</i> , 2018, 8, 1715.	1.6	18
56	The value of teaching increases with tool complexity in cumulative cultural evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201885.	1.2	18
57	Animal minds: from computation to evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2670-2676.	1.8	17
58	Testing social learning of anti-predator responses in juvenile jackdaws: the importance of accounting for levels of agitation. <i>Royal Society Open Science</i> , 2018, 5, 171571.	1.1	17
59	Heat stress inhibits cognitive performance in wild Western Australian magpies, <i>Cracticus tibicen dorsalis</i> . <i>Animal Behaviour</i> , 2022, 188, 1-11.	0.8	17
60	Social learning about dangerous people by wild jackdaws. <i>Royal Society Open Science</i> , 2019, 6, 191031.	1.1	14
61	The development of foraging microhabitat preferences in meerkats. <i>Behavioral Ecology</i> , 2009, 20, 103-110.	1.0	13
62	Jackdaw nestlings can discriminate between conspecific calls but do not beg specifically to their parents. <i>Behavioral Ecology</i> , 2014, 25, 565-573.	1.0	13
63	Wild jackdaws are wary of objects that violate expectations of animacy. <i>Royal Society Open Science</i> , 2018, 5, 181070.	1.1	13
64	Long-term repeatability of cognitive performance. <i>Royal Society Open Science</i> , 2022, 9, .	1.1	12
65	Stochastic modelling of bird flocks: accounting for the cohesiveness of collective motion. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210745.	1.5	10
66	Desperate Prawns: Drivers of Behavioural Innovation Vary across Social Contexts in Rock Pool Crustaceans. <i>PLoS ONE</i> , 2015, 10, e0139050.	1.1	8
67	How and why are some species so smart? A comment on Rowe and Healy. <i>Behavioral Ecology</i> , 2014, 25, 1294-1295.	1.0	7
68	Cooperative nest building in wild jackdaw pairs. <i>Animal Behaviour</i> , 2021, 178, 149-163.	0.8	7
69	Wild jackdaws respond to their partner's distress, but not with consolation. <i>Royal Society Open Science</i> , 2021, 8, 210253.	1.1	6
70	Testing relationship recognition in wild jackdaws (<i>Corvus monedula</i>). <i>Scientific Reports</i> , 2019, 9, 6710.	1.6	5
71	How do banded mongooses locate and select anvils for cracking encased food items?. <i>Behavioural Processes</i> , 2012, 90, 350-356.	0.5	4
72	Smarter through group living: A response to Smulders. <i>Learning and Behavior</i> , 2019, 47, 277-279.	0.5	4

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73	Translating cognitive insights into effective conservation programs: Reply to Schakner et al.. Trends in Ecology and Evolution, 2014, 29, 652-653.	4.2	3
74	The proximate-ultimate confusion in teaching and cooperation. Behavioral and Brain Sciences, 2015, 38, e69.	0.4	3
75	Animal Cognition: The Benefits of Remembering. Current Biology, 2019, 29, R324-R327.	1.8	3
76	Individual differences in spatial learning are correlated across tasks but not with stress response behaviour in guppies. Animal Behaviour, 2022, 188, 133-146.	0.8	2
77	The role of natural history in animal cognition. Current Opinion in Behavioral Sciences, 2022, 46, 101154.	2.0	2
78	Supporting the weight of the elephant in the room: Technical intelligence propped up by social cognition and language. Behavioral and Brain Sciences, 2020, 43, e179.	0.4	1
79	Computational and Structural Advantages of Pairwise Flocking. , 2019, , .		0
80	Social Learning in Birds. , 2021, , 503-533.		0