

# Christian Rutz

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

4,160  
citations

147801

31  
h-index

123424

61  
g-index

73  
all docs

73  
docs citations

73  
times ranked

4315  
citing authors

#	ARTICLE	IF	CITATIONS
1	COVID-19 lockdown allows researchers to quantify the effects of human activity on wildlife. <i>Nature Ecology and Evolution</i> , 2020, 4, 1156-1159.	7.8	413
2	Development of tool use in New Caledonian crows: inherited action patterns and social influences. <i>Animal Behaviour</i> , 2006, 72, 1329-1343.	1.9	230
3	Reality mining of animal social systems. <i>Trends in Ecology and Evolution</i> , 2013, 28, 541-551.	8.7	229
4	How STRANGE are your study animals?. <i>Nature</i> , 2020, 582, 337-340.	27.8	187
5	Behavioural ecology: Tool manufacture by naive juvenile crows. <i>Nature</i> , 2005, 433, 121-121.	27.8	180
6	Optimizing the use of biologgers for movement ecology research. <i>Journal of Animal Ecology</i> , 2020, 89, 186-206.	2.8	178
7	Animal cultures matter for conservation. <i>Science</i> , 2019, 363, 1032-1034.	12.6	136
8	The Role of Experience in Problem Solving and Innovative Tool Use in Crows. <i>Current Biology</i> , 2009, 19, 1965-1968.	3.9	118
9	The establishment of an urban bird population. <i>Journal of Animal Ecology</i> , 2008, 77, 1008-1019.	2.8	111
10	Automated mapping of social networks in wild birds. <i>Current Biology</i> , 2012, 22, R669-R671.	3.9	108
11	Cognitive Processes Associated with Sequential Tool Use in New Caledonian Crows. <i>PLoS ONE</i> , 2009, 4, e6471.	2.5	104
12	The evolutionary origins and ecological context of tool use in New Caledonian crows. <i>Behavioural Processes</i> , 2012, 89, 153-165.	1.1	102
13	Discovery of species-wide tool use in the Hawaiian crow. <i>Nature</i> , 2016, 537, 403-407.	27.8	88
14	Extreme binocular vision and a straight bill facilitate tool use in New Caledonian crows. <i>Nature Communications</i> , 2012, 3, 1110.	12.8	85
15	Age-dependent diet choice in an avian top predator. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 579-586.	2.6	82
16	The Ecological Significance of Tool Use in New Caledonian Crows. <i>Science</i> , 2010, 329, 1523-1526.	12.6	82
17	Video Cameras on Wild Birds. <i>Science</i> , 2007, 318, 765-765.	12.6	81
18	Tool use as adaptation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120408.	4.0	78

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19	Food-limitation in a generalist predator. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2069-2076.	2.6	74
20	Tool use by wild New Caledonian crows <i>Corvus moneduloides</i> at natural foraging sites. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1377-1385.	2.6	69
21	A deepening understanding of animal culture suggests lessons for conservation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202718.	2.6	65
22	Morphology and sexual dimorphism of the New Caledonian Crow <i>Corvus moneduloides</i> , with notes on its behaviour and ecology. <i>Ibis</i> , 2004, 146, 652-660.	1.9	59
23	New Caledonian crows attend to multiple functional properties of complex tools. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120415.	4.0	51
24	Biological Earth observation with animal sensors. <i>Trends in Ecology and Evolution</i> , 2022, 37, 293-298.	8.7	49
25	Experimental resource pulses influence social-network dynamics and the potential for information flow in tool-using crows. <i>Nature Communications</i> , 2015, 6, 7197.	12.8	46
26	Real-time anti-poaching tags could help prevent imminent species extinctions. <i>Journal of Applied Ecology</i> , 2016, 53, 5-10.	4.0	43
27	A standardisation framework for bio-logging data to advance ecological research and conservation. <i>Methods in Ecology and Evolution</i> , 2021, 12, 996-1007.	5.2	39
28	Programmable, miniature video-loggers for deployment on wild birds and other wildlife. <i>Methods in Ecology and Evolution</i> , 2013, 4, 114-122.	5.2	38
29	Assessing the breeding season diet of goshawks <i>Accipiter gentilis</i> : biases of plucking analysis quantified by means of continuous radio-monitoring. <i>Journal of Zoology</i> , 2003, 259, 209-217.	1.7	37
30	On the evolutionary and ontogenetic origins of tool-oriented behaviour in New Caledonian crows ( <i>Corvus moneduloides</i> ). <i>Biological Journal of the Linnean Society</i> , 2011, 102, 870-877.	1.6	35
31	Predator Fitness Increases with Selectivity for Odd Prey. <i>Current Biology</i> , 2012, 22, 820-824.	3.9	34
32	Hook innovation boosts foraging efficiency in tool-using crows. <i>Nature Ecology and Evolution</i> , 2018, 2, 441-444.	7.8	32
33	Calibrating animal-borne proximity loggers. <i>Methods in Ecology and Evolution</i> , 2015, 6, 656-667.	5.2	28
34	Hunting behaviour and breeding performance of northern goshawks <i>Accipiter gentilis</i> , in relation to resource availability, sex, age and morphology. <i>Die Naturwissenschaften</i> , 2013, 100, 935-942.	1.6	27
35	Future trends in measuring physiology in free-living animals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200230.	4.0	27
36	Vocal culture in New Caledonian crows <i>Corvus moneduloides</i> . <i>Biological Journal of the Linnean Society</i> , 2010, 101, 767-776.	1.6	26

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37	Hook tool manufacture in New Caledonian crows: behavioural variation and the influence of raw materials. <i>BMC Biology</i> , 2015, 13, 97.	3.8	26
38	Tool bending in New Caledonian crows. <i>Royal Society Open Science</i> , 2016, 3, 160439.	2.4	26
39	Examining the mechanisms underlying the acquisition of animal tool behaviour. <i>Biology Letters</i> , 2020, 16, 20200122.	2.3	26
40	A quick guide to video-tracking birds. <i>Biology Letters</i> , 2008, 4, 319-322.	2.3	24
41	Purifying Selection in Corvids Is Less Efficient on Islands. <i>Molecular Biology and Evolution</i> , 2020, 37, 469-474.	8.9	24
42	Vestigial singing behaviour persists after the evolutionary loss of song in crickets. <i>Biology Letters</i> , 2018, 14, .	2.3	21
43	<i>Ethology</i> adopts the STRANGE framework for animal behaviour research, to improve reporting standards. <i>Ethology</i> , 2021, 127, 99-101.	1.1	20
44	Strong between-site variation in New Caledonian crows' use of hook-tool-making materials. <i>Biological Journal of the Linnean Society</i> , 2016, 118, 226-232.	1.6	19
45	Context-dependent "safekeeping" of foraging tools in New Caledonian crows. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150278.	2.6	18
46	Causes and Consequences of Tool Shape Variation in New Caledonian Crows. <i>Current Biology</i> , 2017, 27, 3885-3890.e4.	3.9	18
47	Optimization of dynamic soaring in a flap-gliding seabird affects its large-scale distribution at sea. <i>Science Advances</i> , 2022, 8, .	10.3	18
48	Activity profiles and hook-tool use of New Caledonian crows recorded by bird-borne video cameras. <i>Biology Letters</i> , 2015, 11, 20150777.	2.3	17
49	Corvid Technologies: How Do New Caledonian Crows Get Their Tool Designs?. <i>Current Biology</i> , 2018, 28, R1109-R1111.	3.9	17
50	Brood sex ratio varies with diet composition in a generalist raptor. <i>Biological Journal of the Linnean Society</i> , 2012, 105, 937-951.	1.6	14
51	Grass-Stem Tool use in New Caledonian Crows <i>Corvus moneduloides</i> . <i>Ardea</i> , 2008, 96, 283-285.	0.6	12
52	Extra-pair copulation and intraspecific nest intrusions in the Northern Goshawk <i>Accipiter gentilis</i> . <i>Ibis</i> , 2005, 147, 831-835.	1.9	11
53	Population Genomics and Structure of the Critically Endangered Mariana Crow ( <i>Corvus kubaryi</i> ). <i>Genes</i> , 2019, 10, 187.	2.4	11
54	Animal-borne imaging takes wing, or the dawn of "wildlife video-tracking". <i>Trends in Ecology and Evolution</i> , 2008, 23, 292-294.	8.7	10

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55	Inter-aviary distance and visual access influence conservation breeding outcomes in a territorial, endangered bird. <i>Biological Conservation</i> , 2020, 242, 108429.	4.1	10
56	Raptor research during the COVID-19 pandemic provides invaluable opportunities for conservation biology. <i>Biological Conservation</i> , 2021, 260, 109149.	4.1	10
57	Raw-material selectivity in hook-tool-crafting New Caledonian crows. <i>Biology Letters</i> , 2019, 15, 20180836.	2.3	9
58	Studying pauses and pulses in human mobility and their environmental impacts. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 157-159.	29.7	9
59	CONGENITAL NEUROPATHY AND DILUTION OF FEATHER MELANIN IN NESTLINGS OF URBAN-BREEDING NORTHERN GOSHAWKS ( <i>ACCIPITER GENTILIS</i> ). <i>Journal of Zoo and Wildlife Medicine</i> , 2004, 35, 97-103.	0.6	8
60	Nuthatch uses tool in London park. <i>Ethology</i> , 2018, 124, 135-138.	1.1	7
61	Preliminary observations of tool-processing behaviour in Hawaiian crows <i>Corvus hawaiiensis</i> . <i>Communicative and Integrative Biology</i> , 2018, 11, e1509637.	1.4	7
62	New Caledonian crows afford invaluable comparative insights into human cumulative technological culture. <i>Behavioral and Brain Sciences</i> , 2020, 43, e177.	0.7	7
63	Phantom of the forest or successful citizen? Analysing how Northern Goshawks ( <i>Accipiter</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.4	6
64	DNA barcoding identifies cryptic animal tool materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2020699118.	7.1	3
65	A genome-wide investigation of adaptive signatures in protein-coding genes related to tool behaviour in New Caledonian and Hawaiian crows. <i>Molecular Ecology</i> , 2021, 30, 973-986.	3.9	2
66	Accelerometer-based analyses of animal sleep patterns. <i>ELife</i> , 2022, 11, .	6.0	0