Francis Daunt

List of Publications by Year
in descending order

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141 papers	6,529 citations	66343 42 h-index	82547 72 g-index
145 all docs	145 docs citations	145 times ranked	6358 citing authors

#	Article	IF	Citations
1	Can Ethograms Be Automatically Generated Using Body Acceleration Data from Free-Ranging Birds?. PLoS ONE, 2009, 4, e5379.	2.5	351
2	Towards a climate-dependent paradigm of ammonia emission and deposition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130166.	4.0	328
3	Spatial matchâ€“mismatch in the Benguela upwelling zone: should we expect chlorophyll and seaâ€surface temperature to predict marine predator distributions?. Journal of Applied Ecology, 2008, 45, 610-621.	4.0	206
4	The demographic impact of extreme events: stochastic weather drives survival and population dynamics in a longâ€lived seabird. Journal of Animal Ecology, 2008, 77, 1020-1029.	2.8	201
5	Telomere loss in relation to age and early environment in long-lived birds. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1571-1576.	2.6	183
6	Scale-dependent climate signals drive breeding phenology of three seabird species. Global Change Biology, 2004, 10, 1214-1221.	9.5	172
7	Multicolony tracking reveals the winter distribution of a pelagic seabird on an ocean basin scale. Diversity and Distributions, 2012, 18, 530-542.	4.1	165
8	Stress exposure in early post-natal life reduces telomere length: an experimental demonstration in a long-lived seabird. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133151.	2.6	133
9	Herbivore regulation of plant abundance in aquatic ecosystems. Biological Reviews, 2017, 92, 1128-1141.	10.4	121
10	Causes and consequences of individual variability and specialization in foraging and migration strategies of seabirds. Marine Ecology - Progress Series, 2017, 578, 117-150.	1.9	121
11	Extrinsic and intrinsic determinants of winter foraging and breeding phenology in a temperate seabird. Behavioral Ecology and Sociobiology, 2006, 59, 381-388.	1.4	119
12	Older and wiser: improvements in breeding success are linked to better foraging performance in European shags. Functional Ecology, 2007, 21, 561-567.	3.6	113
13	From cradle to early grave: juvenile mortality in European shags Phalacrocorax aristotelis results from inadequate development of foraging proficiency. Biology Letters, 2007, 3, 371-374.	2.3	107
14	Do early warning indicators consistently predict nonlinear change in longâ€term ecological data?. Journal of Applied Ecology, 2016, 53, 666-676.	4.0	104
15	The global distribution of ammonia emissions from seabird colonies. Atmospheric Environment, 2012, 55, 319-327.	4.1	102
16	Seasonal interactions in the black-legged kittiwake, Rissa tridactyla : links between breeding performance and winter distribution. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2412-2418.	2.6	100
17	Sex-specific foraging behaviour in tropical boobies: does size matter?. Ibis, 2005, 147, 408-414.	1.9	99
18	Archiving Primary Data: Solutions for Long-Term Studies. Trends in Ecology and Evolution, 2015, 30, 581-589.	8.7	98

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19	Experimental evidence that age-specific reproductive success is independent of environmental effects. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 1489-1493.	2.6	91
20	Microhabitat use and prey capture of a bottom-feeding top predator, the European shag, shown by camera loggers. Marine Ecology - Progress Series, 2008, 356, 283-293.	1.9	90
21	Patterns of energy acquisition by a central place forager: benefits of alternating short and long foraging trips. Behavioral Ecology, 2004, 15, 824-830.	2.2	88
22	Black-legged kittiwakes as indicators of environmental change in the North Sea: Evidence from long-term studies. Progress in Oceanography, 2007, 72, 30-38.	3.2	84
23	Breeding density, fineâ€scale tracking, and largeâ€scale modeling reveal the regional distribution of four seabird species. Ecological Applications, 2017, 27, 2074-2091.	3.8	83
24	Sexâ€specific food provisioning in a monomorphic seabird, the common guillemotUria aalge: nest defence, foraging efficiency or parental effort?. Journal of Avian Biology, 2009, 40, 75-84.	1.2	82
25	Spatial scales of marine conservation management for breeding seabirds. Marine Policy, 2018, 98, 37-46.	3.2	77
26	Phenological trends and trophic mismatch across multiple levels of a North Sea pelagic food web. Marine Ecology - Progress Series, 2012, 454, 119-133.	1.9	77
27	Influence of wing loading on the trade-off between pursuit-diving and flight in common guillemots and razorbills. Journal of Experimental Biology, 2010, 213, 1018-1025.	1.7	71
28	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 April 2010 â€“ 31 May 2010. Molecular Ecology Resources, 2010, 10, 1098-1105.	4.8	71
29	Global phenological insensitivity to shifting ocean temperatures among seabirds. Nature Climate Change, 2018, 8, 313-318.	18.8	68
30	Using behavioural and state variables to identify proximate causes of population change in a seabird. Oecologia, 2006, 147, 606-614.	2.0	67
31	Best practices for assessing forage fish fisheries-seabird resource competition. Fisheries Research, 2017, 194, 209-221.	1.7	66
32	Regulation of stroke and glide in a foot-propelled avian diver. Journal of Experimental Biology, 2005, 208, 2207-2216.	1.7	64
33	Wintering areas of adult Atlantic puffins Fratercula arctica from a North Sea colony as revealed by geolocation technology. Marine Biology, 2010, 157, 827-836.	1.5	63
34	The impact of waterfowl herbivory on plant standing crop: a meta-analysis. Hydrobiologia, 2012, 686, 157-167.	2.0	63
35	Foraging strategies of the black-legged kittiwake Rissa tridactyla at a North Sea colony: evidence for a maximum foraging range. Marine Ecology - Progress Series, 2002, 245, 239-247.	1.9	60
36	The impact of the sandeel fishery closure on seabird food consumption, distribution, and productivity in the northwestern North Sea. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 362-381.	1.4	58

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37	Reproductive performance of resident and migrant males, females and pairs in a partially migratory bird. Journal of Animal Ecology, 2017, 86, 1010-1021.	2.8	55
38	Multispecies tracking reveals a major seabird hotspot in the North Atlantic. Conservation Letters, 2021, 14, e12824.	5.7	54
39	Strengthening the evidence base for temperature-mediated phenological asynchrony and its impacts. Nature Ecology and Evolution, 2021, 5, 155-164.	7.8	53
40	Ecological resilience in lakes and the conjunction fallacy. Nature Ecology and Evolution, 2017, 1, 1616-1624.	7.8	52
41	From days to decades: short- and long-term variation in environmental conditions affect offspring diet composition of a marine top predator. Marine Ecology - Progress Series, 2017, 583, 227-242.	1.9	52
42	Among-year and within-population variation in foraging distribution of European shags Phalacrocorax aristotelis over two decades: Implications for marine spatial planning. Biological Conservation, 2014, 170, 292-299.	4.1	49
43	Sons and daughters: age-specific differences in parental rearing capacities. Functional Ecology, 2001, 15, 211-216.	3.6	47
44	A new method to quantify prey acquisition in diving seabirds using wing stroke frequency. Journal of Experimental Biology, 2008, 211, 58-65.	1.7	46
45	DIFFERENTIAL EFFECTS OF A LOCAL INDUSTRIAL SAND LANCE FISHERY ON SEABIRD BREEDING PERFORMANCE. , 2008, 18, 701-710.		44
46	Contrasting responses of male and female foraging effort to yearâ€round wind conditions. Journal of Animal Ecology, 2015, 84, 1490-1496.	2.8	44
47	Underwater wingbeats extend depth and duration of plunge dives in northern gannets Morus bassanus. Journal of Avian Biology, 2009, 40, 380-387.	1.2	43
48	Longitudinal bio-logging reveals interplay between extrinsic and intrinsic carry-over effects in a long-lived vertebrate. Ecology, 2014, 95, 2077-2083.	3.2	42
49	Rapid-response recorders reveal interplay between marine physics and seabird behaviour. Marine Ecology - Progress Series, 2003, 255, 283-288.	1.9	42
50	European shags optimize their flight behavior according to wind conditions. Journal of Experimental Biology, 2016, 219, 311-318.	1.7	41
51	Sexual ornament size and breeding performance in female and male European Shags Phalacrocorax aristotelis. Ibis, 2002, 145, 54-60.	1.9	40
52	Site Fidelity and Individual Variation in Winter Location in Partially Migratory European Shags. PLoS ONE, 2014, 9, e98562.	2.5	40
53	FORUM: Effective management of ecological resilience â€“ are we there yet?. Journal of Applied Ecology, 2015, 52, 1311-1315.	4.0	39
54	Parental age influences offspring telomere loss. Functional Ecology, 2016, 30, 1531-1538.	3.6	39

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55	Population and evolutionary dynamics in spatially structured seasonally varying environments. Biological Reviews, 2018, 93, 1578-1603.	10.4	39
56	Understanding Plant Community Responses to Combinations of Biotic and Abiotic Factors in Different Phases of the Plant Growth Cycle. PLoS ONE, 2012, 7, e49824.	2.5	38
57	Hemispheric asymmetry in ocean change and the productivity of ecosystem sentinels. Science, 2021, 372, 980-983.	12.6	38
58	Effects of sea temperature and stratification changes on seabird breeding success. Climate Research, 2015, 66, 75-89.	1.1	37
59	Age, oxidative stress exposure and fitness in a longâ€lived seabird. Functional Ecology, 2016, 30, 913-921.	3.6	36
60	Flexible foraging patterns under different time constraints in tropical boobies. Animal Behaviour, 2004, 68, 1331-1337.	1.9	34
61	Individual state and survival prospects: age, sex, and telomere length in a long-lived seabird. Behavioral Ecology, 2011, 22, 156-161.	2.2	33
62	Validating accelerometry estimates of energy expenditure across behaviours using heart rate data in a free-living seabird. Journal of Experimental Biology, 2017, 220, 1875-1881.	1.7	33
63	Telomere length measurement by qPCR in birds is affected by storage method of blood samples. Oecologia, 2017, 184, 341-350.	2.0	33
64	A year in the life of a North Atlantic seabird: behavioural and energetic adjustments during the annual cycle. Scientific Reports, 2020, 10, 5993.	3.3	33
65	Multi-colony tracking reveals spatio-temporal variation in carry-over effects between breeding success and winter movements in a pelagic seabird. Marine Ecology - Progress Series, 2017, 578, 167-181.	1.9	32
66	Breeding together: modeling synchrony in productivity in a seabird community. Ecology, 2013, 94, 3-10.	3.2	31
67	Effects of extrinsic and intrinsic factors on breeding success in a long lived seabird. Oikos, 2009, 118, 521-528.	2.7	30
68	Helminth burden and ecological factors associated with alterations in wild host gastrointestinal microbiota. ISME Journal, 2017, 11, 663-675.	9.8	30
69	Go with the flow: water velocity regulates herbivore foraging decisions in river catchments. Oikos, 2013, 122, 1720-1729.	2.7	29
70	The energetic cost of parasitism in a wild population. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180489.	2.6	29
71	Strong survival selection on seasonal migration versus residence induced by extreme climatic events. Journal of Animal Ecology, 2021, 90, 796-808.	2.8	29
72	Snake Pipefish Entelurus aequoreus are poor food for seabirds. Ibis, 2008, 150, 413-415.	1.9	27

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73	Parasite Treatment Affects Maternal Investment in Sons. Science, 2008, 321, 1681-1682.	12.6	27
74	Using GPS technology to assess feeding areas of Atlantic PuffinsFratercula arctica. Ringing and Migration, 2012, 27, 43-49.	0.4	27
75	Measurement of ammonia emissions from tropical seabird colonies. Atmospheric Environment, 2014, 89, 35-42.	4.1	27
76	Estimating dispersal distributions at multiple scales: withinâ€colony and amongâ€colony dispersal rates, distances and directions in <scp>E</scp>uropean <scp>S</scp>hags <scp>P</scp>halacrocorax aristotelis. Ibis, 2013, 155, 762-778.	1.9	26
77	Community-wide decline in the occurrence of lesser sandeels Ammodytes marinus in seabird chick diets at a North Sea colony. Marine Ecology - Progress Series, 2018, 600, 193-206.	1.9	25
78	Modelling the Effects of Prey Size and Distribution on Prey Capture Rates of Two Sympatric Marine Predators. PLoS ONE, 2013, 8, e79915.	2.5	24
79	Measurement of ammonia emissions from temperate and sub-polar seabird colonies. Atmospheric Environment, 2016, 134, 40-50.	4.1	24
80	North Atlantic winter cyclones starve seabirds. Current Biology, 2021, 31, 3964-3971.e3.	3.9	24
81	Foraging energetics of North Sea birds confronted with fluctuating prey availability. , 2006, , 191-210.		23
82	The use of biologically meaningful oceanographic indices to separate the effects of climate and fisheries on seabird breeding success. , 2006, , 46-62.		23
83	Measuring submerged macrophyte standing crop in shallow rivers: A test of methodology. Aquatic Botany, 2012, 102, 28-33.	1.6	23
84	Effects of an extreme weather event on seabird breeding success at a North Sea colony. Marine Ecology - Progress Series, 2015, 532, 257-268.	1.9	23
85	Weak largeâ€scale population genetic structure in a philopatric seabird, the European Shag Phalacrocorax aristotelis. Ibis, 2011, 153, 768-778.	1.9	22
86	Analysis of fatty acids and fatty alcohols reveals seasonal and sex-specific changes in the diets of seabirds. Marine Biology, 2013, 160, 987-999.	1.5	22
87	Interactions between Environmental Contaminants and Gastrointestinal Parasites: Novel Insights from an Integrative Approach in a Marine Predator. Environmental Science & Technology, 2020, 54, 8938-8948.	10.0	22
88	Parasitism in early life: environmental conditions shape withinâ€brood variation in responses to infection. Ecology and Evolution, 2014, 4, 3408-3419.	1.9	21
89	Assessing the vulnerability of the marine bird community in the western North Sea to climate change and other anthropogenic impacts. Marine Ecology - Progress Series, 2014, 507, 277-295.	1.9	21
90	A fulfilled human life: Eliciting sense of place and cultural identity in two UK marine environments through the Community Voice Method. Ecosystem Services, 2019, 39, 100992.	5.4	21

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91	Inter-year differences in survival of Atlantic puffins Fratercula arctica are not associated with winter distribution. Marine Biology, 2013, 160, 2877-2889.	1.5	19
92	Seabirds maintain offspring provisioning rate despite fluctuations in prey abundance: a multiâ€species functional response for guillemots in the <scp>N</scp>orth <scp>S</scp>ea. Journal of Applied Ecology, 2013, 50, 1071-1079.	4.0	19
93	Sympatric Atlantic puffins and razorbills show contrasting responses to adverse marine conditions during winter foraging within the North Sea. Movement Ecology, 2019, 7, 33.	2.8	18
94	Among-individual and within-individual variation in seasonal migration covaries with subsequent reproductive success in a partially migratory bird. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200928.	2.6	18
95	The role of season and social grouping on habitat use by Mute Swans (Cygnus olor) in a lowland river catchment. Bird Study, 2013, 60, 229-237.	1.0	17
96	Six pelagic seabird species of the North Atlantic engage in a fly-and-forage strategy during their migratory movements. Marine Ecology - Progress Series, 2021, 676, 127-144.	1.9	17
97	Partitioning of diving effort in foraging trips of northern gannets. Canadian Journal of Zoology, 2004, 82, 1910-1916.	1.0	16
98	Impacts of Parasites in Early Life: Contrasting Effects on Juvenile Growth for Different Family Members. PLoS ONE, 2012, 7, e32236.	2.5	16
99	Geolocators reveal an unsuspected moulting area for Isle of May Common GuillemotsUria aalge. Bird Study, 2015, 62, 267-270.	1.0	16
100	Global assessment of the effect of climate change on ammonia emissions from seabirds. Atmospheric Environment, 2018, 184, 212-223.	4.1	16
101	Meeting Paris agreement objectives will temper seabird winter distribution shifts in the North Atlantic Ocean. Global Change Biology, 2021, 27, 1457-1469.	9.5	16
102	Earlier colony arrival but no trend in hatching timing in two congeneric seabirds (Uriaspp.) across the North Atlantic. Biology Letters, 2019, 15, 20190634.	2.3	15
103	Pronounced long-term trends in year-round diet composition of the European shag Phalacrocorax aristotelis. Marine Biology, 2018, 165, 1.	1.5	14
104	Environmental heterogeneity decreases reproductive success via effects on foraging behaviour. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190795.	2.6	14
105	Can Sacrificial Feeding Areas Protect Aquatic Plants from Herbivore Grazing? Using Behavioural Ecology to Inform Wildlife Management. PLoS ONE, 2014, 9, e104034.	2.5	14
106	Moult location and diet of auks in the North Sea inferred from coupled light-based and isotopebased geolocation. Marine Ecology - Progress Series, 2018, 599, 239-251.	1.9	14
107	Global Monitoring of Persistent Organic Pollutants (POPs) Using Seabird Preen Gland Oil. Archives of Environmental Contamination and Toxicology, 2018, 75, 545-556.	4.1	13
108	Strong migratory connectivity across meta-populations of sympatric North Atlantic seabirds. Marine Ecology - Progress Series, 2021, 676, 173-188.	1.9	13

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109	Inter-population synchrony in adult survival and effects of climate and extreme weather in non-breeding areas of Atlantic puffins. Marine Ecology - Progress Series, 2021, 676, 219-231.	1.9	13
110	Endoscopy as a novel method for assessing endoparasite burdens in freeâ€ranging European shags (Phalacrocorax aristotelis). Methods in Ecology and Evolution, 2013, 4, 207-216.	5.2	12
111	High temporal resolution modelling of environmentally-dependent seabird ammonia emissions: Description and testing of the GUANO model. Atmospheric Environment, 2017, 161, 48-60.	4.1	12
112	Year-round distribution of Northeast Atlantic seabird populations: applications for population management and marine spatial planning. Marine Ecology - Progress Series, 0, , .	1.9	12
113	Evaluating the Effects of Population Management on a Herbivore Grazing Conflict. PLoS ONE, 2013, 8, e56287.	2.5	12
114	Protracted treatment with corticosterone reduces breeding success in a long-lived bird. General and Comparative Endocrinology, 2015, 210, 38-45.	1.8	11
115	Effects of body size, sex, parental care and moult strategies on auk diving behaviour outside the breeding season. Journal of Avian Biology, 2019, 50, .	1.2	11
116	Episodes of opposing survival and reproductive selection cause strong fluctuating selection on seasonal migration versus residence. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210404.	2.6	11
117	Egg components vary independently of each other in the facultative siblicidal Black-legged Kittiwake Rissa tridactyla. Journal of Ornithology, 2012, 153, 513-523.	1.1	10
118	Ecological Instability in Lakes: A Predictable Condition?. Environmental Science & Technology, 2016, 50, 3285-3286.	10.0	10
119	Solutions for Archiving Data in Long-Term Studies: A Reply to Whitlock et al.. Trends in Ecology and Evolution, 2016, 31, 85-87.	8.7	10
120	Genetic structure in the European endemic seabird, Phalacrocorax aristotelis, shaped by a complex interaction of historical and contemporary, physical and nonphysical drivers. Molecular Ecology, 2017, 26, 2796-2811.	3.9	10
121	Improving assessments of dataâ€limited populations using lifeâ€history theory. Journal of Applied Ecology, 2021, 58, 1225-1236.	4.0	10
122	The role of parasitism in the energy management of a free-ranging bird. Journal of Experimental Biology, 2018, 221, .	1.7	9
123	Individual migration strategy fidelity but no habitat specialization in two congeneric seabirds. Journal of Biogeography, 2021, 48, 263-275.	3.0	9
124	No evidence for fitness signatures consistent with increasing trophic mismatch over 30Âyears in a population of European shag Phalacrocorax aristotelis. Journal of Animal Ecology, 2021, 90, 432-446.	2.8	8
125	Impacts of oceanography on the foraging dynamics of seabirds in the North Sea. , 2006, , 177-190.		7
126	Sampling avian adipose tissue: assessing a nondestructive biopsy technique. Journal of Field Ornithology, 2010, 81, 92-98.	0.5	7

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127	Indirect effects of parasitism: costs of infection to other individuals can be greater than direct costs borne by the host. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150602.	2.6	7
128	Interspecific variation in non-breeding aggregation: a multi-colony tracking study of two sympatric seabirds. Marine Ecology - Progress Series, 2022, 684, 181-197.	1.9	7
129	Between-individual variation in nematode burden among juveniles in a wild host. Parasitology, 2017, 144, 248-258.	1.5	6
130	Water velocity limits the temporal extent of herbivore effects on aquatic plants in a lowland river. Hydrobiologia, 2018, 812, 45-55.	2.0	6
131	Spatial and temporal variation in foraging of breeding redâ€throated divers. Journal of Avian Biology, 2021, 52, .	1.2	6
132	Twilight foraging enables European shags to survive the winter across their latitudinal range. Marine Ecology - Progress Series, 2021, 676, 145-157.	1.9	6
133	Sublethal effects of natural parasitism act through maternal, but not paternal, reproductive success in a wild population. Ecology, 2019, 100, e02772.	3.2	5
134	Potential climate-driven changes to seabird demography: implications for assessments of marine renewable energy development. Marine Ecology - Progress Series, 2022, 690, 185-200.	1.9	5
135	Siteâ€dependent regulation of breeding success: Evidence for the buffer effect in the common guillemot, a colonially breeding seabird. Journal of Animal Ecology, 2022, 91, 752-765.	2.8	5
136	Effects of extrinsic and intrinsic factors on breeding success in a long lived seabird. Oikos, 2009, 118, 521-528.	2.7	3
137	The importance of observer effort on the accuracy of breeding success estimates in the Common Guillemot Uria aalge. Bird Study, 2020, 67, 93-103.	1.0	3
138	Longâ€term withinâ€season changes in the diet of Common Guillemot (Uria aalge) chicks at a North Sea colony: implications for dietary monitoring. Ibis, 2022, 164, 1243-1251.	1.9	3
139	Mass mortality of seabirds in GB. Veterinary Record, 2022, 190, 129-130.	0.3	2
140	Modelling and mapping how common guillemots balance their energy budgets over a full annual cycle. Functional Ecology, 2022, 36, 1612-1626.	3.6	2
141	Variation and correlation in the timing of breeding of North Atlantic seabirds across multiple scales. Journal of Animal Ecology, 2022, 91, 1797-1812.	2.8	2