

Dominique Berteaux

List of Publications by Year in descending order

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Version: 2024-02-01

135
papers

6,033
citations

61857

43
h-index

85405

71
g-index

140
all docs

140
docs citations

140
times ranked

7201
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavelet analysis of ecological time series. <i>Oecologia</i> , 2008, 156, 287-304.	0.9	552
2	Genetic and plastic responses of a northern mammal to climate change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 591-596.	1.2	383
3	Keeping Pace with Fast Climate Change: Can Arctic Life Count on Evolution?. <i>Integrative and Comparative Biology</i> , 2004, 44, 140-151.	0.9	207
4	BREEDING DISPERSAL IN FEMALE NORTH AMERICAN RED SQUIRRELS. <i>Ecology</i> , 2000, 81, 1311-1326.	1.5	130
5	Integrating Traditional Ecological Knowledge and Ecological Science: a Question of Scale. <i>Ecology and Society</i> , 2009, 14, .	1.0	125
6	Highly Overlapping Winter Diet in Two Sympatric Lemming Species Revealed by DNA Metabarcoding. <i>PLoS ONE</i> , 2015, 10, e0115335.	1.1	125
7	Long-term monitoring at multiple trophic levels suggests heterogeneity in responses to climate change in the Canadian Arctic tundra. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120482.	1.8	122
8	MATERNAL EFFECTS AND THE POTENTIAL FOR EVOLUTION IN A NATURAL POPULATION OF ANIMALS. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 846-851.	1.1	121
9	Historical and ecological determinants of genetic structure in arctic canids. <i>Molecular Ecology</i> , 2007, 16, 3466-3483.	2.0	110
10	Geographic disparities and moral hazards in the predicted impacts of climate change on human populations. <i>Global Ecology and Biogeography</i> , 2011, 20, 532-544.	2.7	101
11	Cohort effects in red squirrels: the influence of density, food abundance and temperature on future survival and reproductive success. <i>Journal of Animal Ecology</i> , 2008, 77, 305-314.	1.3	100
12	Expenditure freeze: the metabolic response of small mammals to cold environments. <i>Ecology Letters</i> , 2005, 8, 1326-1333.	3.0	99
13	Food choice by white-tailed deer in relation to protein and energy content of the diet: a field experiment. <i>Oecologia</i> , 1998, 115, 84-92.	0.9	97
14	LIFETIME SELECTION ON HERITABLE LIFE-HISTORY TRAITS IN A NATURAL POPULATION OF RED SQUIRRELS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2416-2423.	1.1	93
15	Arctic ecosystem structure and functioning shaped by climate and herbivore body size. <i>Nature Climate Change</i> , 2014, 4, 379-383.	8.1	92
16	Age-specific variation in survival, reproductive success and offspring quality in red squirrels: evidence of senescence. <i>Oikos</i> , 2008, 117, 1406-1416.	1.2	91
17	Repeatability of Daily Field Metabolic Rate in Female Meadow Voles (<i>Microtus pennsylvanicus</i>). <i>Functional Ecology</i> , 1996, 10, 751.	1.7	90
18	Influence of thermal fronts on habitat selection by four rorqual whale species in the Gulf of St. Lawrence. <i>Marine Ecology - Progress Series</i> , 2007, 335, 207-216.	0.9	90

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19	Disentangling trophic relationships in a High Arctic tundra ecosystem through food web modeling. <i>Ecology</i> , 2012, 93, 1707-1716.	1.5	88
20	Cross-scale integration of knowledge for predicting species ranges: a metamodeling framework. <i>Global Ecology and Biogeography</i> , 2016, 25, 238-249.	2.7	88
21	The tundra food web of Bylot Island in a changing climate and the role of exchanges between ecosystems. <i>Ecoscience</i> , 2011, 18, 223-235.	0.6	85
22	Generation of Priority Research Questions to Inform Conservation Policy and Management at a National Level. <i>Conservation Biology</i> , 2011, 25, 476-484.	2.4	80
23	Best squirrels trade a long life for an early reproduction. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2369-2374.	1.2	79
24	Habitat selection, reproduction and predation of wintering lemmings in the Arctic. <i>Oecologia</i> , 2011, 167, 967-980.	0.9	75
25	Ecological insights from three decades of animal movement tracking across a changing Arctic. <i>Science</i> , 2020, 370, 712-715.	6.0	75
26	Constraints to projecting the effects of climate change on mammals. <i>Climate Research</i> , 2006, 32, 151-158.	0.4	75
27	Multiple paternity in meadow voles (<i>Microtus pennsylvanicus</i>): investigating the role of the female. <i>Behavioral Ecology and Sociobiology</i> , 1999, 45, 283-291.	0.6	74
28	Survival costs of reproduction vary with age in North American red squirrels. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1129-1135.	1.2	74
29	Seasonal demography of a cyclic lemming population in the Canadian Arctic. <i>Journal of Animal Ecology</i> , 2015, 84, 1412-1422.	1.3	74
30	Cyclic dynamics of sympatric lemming populations on Bylot Island, Nunavut, Canada. <i>Canadian Journal of Zoology</i> , 2008, 86, 910-917.	0.4	72
31	Benefiting from a migratory prey: spatio-temporal patterns in allochthonous subsidization of an arctic predator. <i>Journal of Animal Ecology</i> , 2012, 81, 533-542.	1.3	72
32	Homage to Hersteinsson and Macdonald: climate warming and resource subsidies cause red fox range expansion and Arctic fox decline. <i>Polar Research</i> , 2017, 36, 3.	1.6	72
33	Terrestrial trophic dynamics in the Canadian Arctic. <i>Canadian Journal of Zoology</i> , 2003, 81, 827-843.	0.4	66
34	Effects of changing permafrost and snow conditions on tundra wildlife: critical places and times. <i>Arctic Science</i> , 2017, 3, 65-90.	0.9	65
35	Sensitivity of stable isotope mixing models to variation in isotopic ratios: evaluating consequences of lipid extraction. <i>Methods in Ecology and Evolution</i> , 2010, 1, 231-241.	2.2	62
36	Female red squirrels fit Williams' hypothesis of increasing reproductive effort with increasing age. <i>Journal of Animal Ecology</i> , 2007, 76, 1192-1201.	1.3	58

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37	Northern nomads: ability for extensive movements in adult arctic foxes. <i>Polar Biology</i> , 2010, 33, 1021-1026.	0.5	58
38	Problems and pitfalls in relating climate variability to population dynamics. <i>Climate Research</i> , 2006, 32, 143-149.	0.4	57
39	Porcupine Feeding Scars and Climatic Data Show Ecosystem Effects of the Solar Cycle. <i>American Naturalist</i> , 2004, 164, 283-297.	1.0	56
40	Stable isotope analysis: modelling lipid normalization for muscle and eggs from arctic mammals and birds. <i>Methods in Ecology and Evolution</i> , 2011, 2, 66-76.	2.2	55
41	The effect of snow cover on lemming population cycles in the Canadian High Arctic. <i>Oecologia</i> , 2013, 172, 1007-1016.	0.9	53
42	Effect of Muskox Carcasses on Nitrogen Concentration in Tundra Vegetation. <i>Arctic</i> , 2002, 55, .	0.2	53
43	Finding the right home: distribution of food resources and terrain characteristics influence selection of denning sites and reproductive dens in arctic foxes. <i>Polar Biology</i> , 2008, 31, 351-362.	0.5	49
44	Predator-mediated interactions between preferred, alternative and incidental prey in the arctic tundra. <i>Oikos</i> , 2013, 122, 1042-1048.	1.2	47
45	Predator-mediated interactions between lemmings and shorebirds: A test of the alternative prey hypothesis. <i>Auk</i> , 2014, 131, 619-628.	0.7	47
46	Arctic fox versus red fox in the warming Arctic: four decades of den surveys in north Yukon. <i>Polar Biology</i> , 2012, 35, 1421-1431.	0.5	43
47	Northern protected areas will become important refuges for biodiversity tracking suitable climates. <i>Scientific Reports</i> , 2018, 8, 4623.	1.6	41
48	The Marine Side of a Terrestrial Carnivore: Intra-Population Variation in Use of Allochthonous Resources by Arctic Foxes. <i>PLoS ONE</i> , 2012, 7, e42427.	1.1	40
49	Cache and carry: hoarding behavior of arctic fox. <i>Behavioral Ecology and Sociobiology</i> , 2007, 62, 87-96.	0.6	37
50	The CC-Bio Project: Studying the Effects of Climate Change on Quebec Biodiversity. <i>Diversity</i> , 2010, 2, 1181-1204.	0.7	37
51	Effect of Carrying a Radiocollar on Expenditure of Energy by Meadow Voles. <i>Journal of Mammalogy</i> , 1996, 77, 359-363.	0.6	36
52	Harmonizing circumpolar monitoring of Arctic fox: benefits, opportunities, challenges and recommendations. <i>Polar Research</i> , 2017, 36, 2.	1.6	35
53	Spatial variation in food availability predicts extrapair paternity in the arctic fox. <i>Behavioral Ecology</i> , 2011, 22, 1364-1373.	1.0	33
54	Disentangling the relative influences of global drivers of change in biodiversity: A study of the twentieth-century red fox expansion into the Canadian Arctic. <i>Journal of Animal Ecology</i> , 2020, 89, 565-576.	1.3	33

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55	Anticipatory parental care: acquiring resources for offspring prior to conception. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 2081-2085.	1.2	32
56	Effect of snow cover on the vulnerability of lemmings to mammalian predators in the Canadian Arctic. <i>Journal of Mammalogy</i> , 2013, 94, 813-819.	0.6	30
57	Spatio-temporal hotspots of satellite-tracked arctic foxes reveal a large detection range in a mammalian predator. <i>Movement Ecology</i> , 2015, 3, 37.	1.3	29
58	Movement tactics of a mobile predator in a meta-ecosystem with fluctuating resources: the arctic fox in the High Arctic. <i>Oikos</i> , 2017, 126, 937-947.	1.2	29
59	Identifying high residency areas of the threatened St. Lawrence beluga whale from fine-scale movements of individuals and coarse-scale movements of herds. <i>Marine Ecology - Progress Series</i> , 2012, 450, 243-257.	0.9	29
60	Hoarding of pulsed resources: Temporal variations in egg-caching by arctic fox. <i>Ecoscience</i> , 2008, 15, 268-276.	0.6	28
61	Demography of two lemming species on Bylot Island, Nunavut, Canada. <i>Polar Biology</i> , 2010, 33, 725-736.	0.5	28
62	Top-down limitation of lemmings revealed by experimental reduction of predators. <i>Ecology</i> , 2016, 97, 3231-3241.	1.5	28
63	Evaluation of invasive and non-invasive methods to monitor rodent abundance in the Arctic. <i>Ecosphere</i> , 2018, 9, e02124.	1.0	28
64	Predicting the distribution of poorly-documented species, Northern black widow (<i>Latrodectus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 data. <i>PLoS ONE</i> , 2018, 13, e0201094.	1.1	27
65	Female-Biased Mortality in a Sexually Dimorphic Ungulate: Feral Cattle of Amsterdam Island. <i>Journal of Mammalogy</i> , 1993, 74, 732-737.	0.6	24
66	Hierarchical habitat selection by North American porcupines in southern boreal forest. <i>Canadian Journal of Zoology</i> , 2005, 83, 1333-1342.	0.4	24
67	Derivation of Predator Functional Responses Using a Mechanistic Approach in a Natural System. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	24
68	Population studies and reproduction of the feral cattle (<i>Bos taurus</i>) of Amsterdam Island, Indian Ocean. <i>Journal of Zoology</i> , 1992, 228, 265-276.	0.8	23
69	Can radio collars affect dominance relationships in <i>Microtus</i> ?. <i>Canadian Journal of Zoology</i> , 1994, 72, 785-789.	0.4	23
70	Behavioral archives link the chemistry and clonal structure of trembling aspen to the food choice of North American porcupine. <i>Oecologia</i> , 2009, 160, 687-695.	0.9	23
71	Demographic response of tundra small mammals to a snow fencing experiment. <i>Oikos</i> , 2013, 122, 1167-1176.	1.2	23
72	An Objective Approach to Select Climate Scenarios when Projecting Species Distribution under Climate Change. <i>PLoS ONE</i> , 2016, 11, e0152495.	1.1	23

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73	Solitude versus Gregariousness: Do Physical Benefits Drive the Choice in Overwintering Meadow Voles?. <i>Oikos</i> , 1996, 76, 330.	1.2	22
74	Merging indigenous and scientific knowledge links climate with the growth of a large migratory caribou population. <i>Journal of Applied Ecology</i> , 2020, 57, 1644-1655.	1.9	22
75	Intraclonal variation in defence substances and palatability: a study on <i>Carex</i> and lemmings. <i>Oikos</i> , 2004, 105, 461-470.	1.2	21
76	Natal den selection by sympatric arctic and red foxes on Herschel Island, Yukon, Canada. <i>Polar Biology</i> , 2014, 37, 333-345.	0.5	21
77	Sources of variation in small rodent trophic niche: new insights from DNA metabarcoding and stable isotope analysis. <i>Isotopes in Environmental and Health Studies</i> , 2014, 50, 361-381.	0.5	21
78	Age Estimation of Live Arctic Foxes <i>Vulpes lagopus</i> Based on Teeth Condition. <i>Wildlife Biology</i> , 2017, 2017, 1-6.	0.6	21
79	Assessing Stress in Arctic Lemmings: Fecal Metabolite Levels Reflect Plasma Free Corticosterone Levels. <i>Physiological and Biochemical Zoology</i> , 2017, 90, 370-382.	0.6	19
80	Conservation planning for boreal birds in a changing climate: a framework for action. <i>Avian Conservation and Ecology</i> , 2019, 14, .	0.3	18
81	Direct and indirect effects of regional and local climatic factors on trophic interactions in the Arctic tundra. <i>Journal of Animal Ecology</i> , 2020, 89, 704-715.	1.3	18
82	Predation as a probable mechanism relating winter weather to population dynamics in a North American porcupine population. <i>Population Ecology</i> , 2010, 52, 537-546.	0.7	17
83	Evaluation of a method to determine the breeding activity of lemmings in their winter nests. <i>Journal of Mammalogy</i> , 2011, 92, 511-516.	0.6	16
84	Does lemming winter grazing impact vegetation in the Canadian Arctic?. <i>Polar Biology</i> , 2014, 37, 845-857.	0.5	16
85	Precipitation and ectoparasitism reduce reproductive success in an arctic-nesting top-predator. <i>Scientific Reports</i> , 2018, 8, 8530.	1.6	16
86	Common ravens raid arctic fox food caches. <i>Journal of Ethology</i> , 2007, 25, 79-82.	0.4	15
87	Extensive daily movement rates measured in territorial arctic foxes. <i>Ecology and Evolution</i> , 2021, 11, 2503-2514.	0.8	15
88	Evaluation of Argos Telemetry Accuracy in the High-Arctic and Implications for the Estimation of Home-Range Size. <i>PLoS ONE</i> , 2015, 10, e0141999.	1.1	15
89	Measuring, understanding and projecting the effects of large-scale climatic variability on mammals. <i>Climate Research</i> , 2006, 32, 95-97.	0.4	15
90	Osteometric study of the metapodials of Amsterdam Island feral cattle. <i>Acta Theriologica</i> , 1995, 40, 97-110.	1.1	15

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91	Surviving on cached foods— the energetics of egg-caching by arctic foxes. <i>Canadian Journal of Zoology</i> , 2008, 86, 1217-1223.	0.4	14
92	Time series data for Canadian arctic vertebrates: IPY contributions to science, management, and policy. <i>Climatic Change</i> , 2012, 115, 235-258.	1.7	13
93	Foreword to Supplement 1: research on a polar species—the Arctic fox. <i>Polar Research</i> , 2017, 36, 1.	1.6	13
94	Pulsed food resources affect reproduction but not adult apparent survival in arctic foxes. <i>Oecologia</i> , 2020, 193, 557-569.	0.9	13
95	Red foxes at their northern edge: competition with the Arctic fox and winter movements. <i>Journal of Mammalogy</i> , 2022, 103, 586-597.	0.6	13
96	SPRING-TO-FALL MASS GAIN IN A NORTHERN POPULATION OF NORTH AMERICAN PORCUPINES. <i>Journal of Mammalogy</i> , 2005, 86, 514-519.	0.6	12
97	Free love in the far north: plural breeding and polyandry of arctic foxes (<i>Alopex lagopus</i>) on Bylot Island, Nunavut. <i>Canadian Journal of Zoology</i> , 2007, 85, 338-343.	0.4	12
98	Hide or die: use of cover decreases predation risk in juvenile North American porcupines. <i>Journal of Mammalogy</i> , 2014, 95, 992-1003.	0.6	12
99	Winter home range fidelity and extraterritorial movements of Arctic fox pairs in the Canadian High Arctic. <i>Polar Research</i> , 2017, 36, 11.	1.6	12
100	Consequences of past climate change and recent human persecution on mitogenomic diversity in the arctic fox. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190212.	1.8	12
101	Evaluation of a Technique to Trap Lemmings Under the Snow. <i>Arctic</i> , 2013, 66, .	0.2	12
102	ENERGETIC COST OF HEATING INGESTED FOOD IN MAMMALIAN HERBIVORES. <i>Journal of Mammalogy</i> , 2000, 81, 683-690.	0.6	11
103	Red foxes (<i>Vulpes vulpes</i>) at their expanding front in the Canadian Arctic have indigenous maternal ancestry. <i>Polar Biology</i> , 2015, 38, 913-917.	0.5	11
104	Variable strength of predator-mediated effects on species occurrence in an arctic terrestrial vertebrate community. <i>Ecography</i> , 2021, 44, 1236-1248.	2.1	11
105	A mechanistic model of functional response provides new insights into indirect interactions among arctic tundra prey. <i>Ecology</i> , 2022, 103, e3734.	1.5	11
106	Predation of arctic fox (<i>Vulpes lagopus</i>) pups by common ravens (<i>Corvus corax</i>). <i>Polar Biology</i> , 2016, 39, 1335-1341.	0.5	10
107	Evolution, ecology and conservation—revisiting three decades of Arctic fox population genetic research. <i>Polar Research</i> , 2017, 36, 4.	1.6	10
108	Digging into the behaviour of an active hunting predator: arctic fox prey caching events revealed by accelerometry. <i>Movement Ecology</i> , 2021, 9, 58.	1.3	10

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109	The predator activity landscape predicts the anti-predator behavior and distribution of prey in a tundra community. <i>Ecosphere</i> , 2021, 12, .	1.0	10
110	Seasonal and Interindividual Variation in Field Water Metabolism of Female Meadow Voles <i>Microtus pennsylvanicus</i> . <i>Physiological and Biochemical Zoology</i> , 1999, 72, 545-554.	0.6	9
111	IMMOBILIZATION OF NORTH AMERICAN PORCUPINES (<i>ERETHIZON DORSATUM</i>) USING KETAMINE AND XYLAZINE. <i>Journal of Wildlife Diseases</i> , 2003, 39, 675-682.	0.3	9
112	Discrimination factors of carbon and nitrogen stable isotopes from diet to hair in captive large Arctic carnivores of conservation concern. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1773-1780.	0.7	9
113	Seasonal food webs with migrations: multi-season models reveal indirect species interactions in the Canadian Arctic tundra. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190354.	1.6	9
114	Climate Change and Local Host Availability Drive the Northern Range Boundary in the Rapid Expansion of a Specialist Insect Herbivore, <i>Papilio cresphontes</i> . <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	9
115	Testing energy expenditure hypotheses: reallocation versus increased demand in <i>Microtus pennsylvanicus</i> . <i>Acta Theriologica</i> , 1998, 43, 13-21.	1.1	9
116	Québec's Large-Scale Plan Nord. <i>Conservation Biology</i> , 2013, 27, 242-243.	2.4	8
117	Impacts of mosquitoes and black flies on defensive behaviour and microhabitat use of the North American porcupine (<i>Erethizon dorsatum</i>) in southern Quebec. <i>Canadian Journal of Zoology</i> , 2005, 83, 754-764.	0.4	7
118	Heavy browsing by a mammalian herbivore does not affect fluctuating asymmetry of its food plants. <i>Ecoscience</i> , 2007, 14, 188-194.	0.6	7
119	High Arctic lemmings remain reproductively active under predator-induced elevated stress. <i>Oecologia</i> , 2018, 187, 657-666.	0.9	7
120	Prey and habitat distribution are not enough to explain predator habitat selection: addressing intraspecific interactions, behavioural state and time. <i>Movement Ecology</i> , 2021, 9, 12.	1.3	6
121	Pines and porcupines: a tree-ring analysis of browsing and dynamics of an overmature pine forest. <i>Canadian Journal of Forest Research</i> , 2017, 47, 257-268.	0.8	5
122	Behavioural responses of wintering porcupines to their heterogeneous thermal environment. <i>Ecoscience</i> , 2011, 18, 341-353.	0.6	4
123	Life in the fast lane: learning from the rare multi-year recaptures of brown lemmings in the High Arctic. <i>Arctic Science</i> , 0, , .	0.9	4
124	Demographic Amplification of Climate Change Experienced by the Contiguous United States Population during the 20th Century. <i>PLoS ONE</i> , 2012, 7, e45683.	1.1	4
125	Presence and First Breeding Attempts of Southern Gannets <i>Morus capensis</i> and <i>M. senator</i> at Saint Paul Island, Southern Indian Ocean. <i>Emu</i> , 1995, 95, 134-137.	0.2	3
126	Recent climate-related terrestrial biodiversity research in Canada's Arctic national parks: review, summary, and management implications. <i>Biodiversity</i> , 2012, 13, 157-173.	0.5	2

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127	Cogestion adaptative des parcs du Nunavik dans un contexte de changements climatiques. Teoros: Revue De Recherche En Tourisme, 2012, 31, 61-71.	0.1	2
128	Fine-scale population genetic structure of arctic foxes (<i>Vulpes lagopus</i>) in the High Arctic. BMC Research Notes, 2017, 10, 663.	0.6	2
129	Vascular plant communities in the polar desert of Alert (Ellesmere Island, Canada): Establishment of a baseline reference for the 21st century. Ecoscience, 0, , 1-25.	0.6	2
130	Feeding preference of brown lemmings (<i>Lemmus trimucronatus</i>) for plant parts of Arctic willow (<i>Salix arctica</i>). Polar Biology, 2017, 40, 2329-2334.	0.5	2
131	Walking on water: terrestrial mammal migrations in the warming Arctic. Animal Migration, 2021, 8, 65-73.	1.1	2
132	LIFETIME SELECTION ON HERITABLE LIFE-HISTORY TRAITS IN A NATURAL POPULATION OF RED SQUIRRELS. Evolution; International Journal of Organic Evolution, 2003, 57, 2416.	1.1	1
133	Changements climatiques: défis et perspectives pour les plantes vasculaires en situation précaire au Québec. Le Naturaliste Canadien, 2018, 142, 16-35.	0.2	1
134	Low vulnerability of Arctic fox dens to climate change-related geohazards on Bylot Island, Nunavut, Canada. Arctic Science, 0, , 1-16.	0.9	1
135	Long-distance, synchronized and directional fall movements suggest migration in Arctic hares on Ellesmere Island (Canada). Scientific Reports, 2022, 12, 5003.	1.6	0