Dominique Berteaux

List of Publications by Year
in descending order

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	Red foxes at their northern edge: competition with the Arctic fox and winter movements. Journal of Mammalogy, 2022, 103, 586-597.	0.6	13
2	Long-distance, synchronized and directional fall movements suggest migration in Arctic hares on Ellesmere Island (Canada). Scientific Reports, 2022, 12, 5003.	1.6	0
3	A mechanistic model of functional response provides new insights into indirect interactions among arctic tundra prey. Ecology, 2022, 103, e3734.	1.5	11
4	Extensive daily movement rates measured in territorial arctic foxes. Ecology and Evolution, 2021, 11, 2503-2514.	0.8	15
5	Derivation of Predator Functional Responses Using a Mechanistic Approach in a Natural System. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	24
6	Climate Change and Local Host Availability Drive the Northern Range Boundary in the Rapid Expansion of a Specialist Insect Herbivore, Papilio cresphontes. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	9
7	Prey and habitat distribution are not enough to explain predator habitat selection: addressing intraspecific interactions, behavioural state and time. Movement Ecology, 2021, 9, 12.	1.3	6
8	Variable strength of predatorâ€mediated effects on species occurrence in an arctic terrestrial vertebrate community. Ecography, 2021, 44, 1236-1248.	2.1	11
9	Digging into the behaviour of an active hunting predator: arctic fox prey caching events revealed by accelerometry. Movement Ecology, 2021, 9, 58.	1.3	10
10	Walking on water: terrestrial mammal migrations in the warming Arctic. Animal Migration, 2021, 8, 65-73.	1.1	2
11	The predator activity landscape predicts the antiâ€predator behavior and distribution of prey in a tundra community. Ecosphere, 2021, 12, .	1.0	10
12	Direct and indirect effects of regional and local climatic factors on trophic interactions in the Arctic tundra. Journal of Animal Ecology, 2020, 89, 704-715.	1.3	18
13	Disentangling the relative influences of global drivers of change in biodiversity: A study of the twentiethâ€century red fox expansion into the Canadian Arctic. Journal of Animal Ecology, 2020, 89, 565-576.	1.3	33
14	Seasonal food webs with migrations: multi-season models reveal indirect species interactions in the Canadian Arctic tundra. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190354.	1.6	9
15	Ecological insights from three decades of animal movement tracking across a changing Arctic. Science, 2020, 370, 712-715.	6.0	75
16	Merging indigenous and scientific knowledge links climate with the growth of a large migratory caribou population. Journal of Applied Ecology, 2020, 57, 1644-1655.	1.9	22
17	Pulsed food resources affect reproduction but not adult apparent survival in arctic foxes. Oecologia, 2020, 193, 557-569.	0.9	13
18	Conservation planning for boreal birds in a changing climate: a framework for action. Avian Conservation and Ecology, 2019, 14, .	0.3	18

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19	Consequences of past climate change and recent human persecution on mitogenomic diversity in the arctic fox. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190212.	1.8	12
20	High Arctic lemmings remain reproductively active under predator-induced elevated stress. Oecologia, 2018, 187, 657-666.	0.9	7
21	Northern protected areas will become important refuges for biodiversity tracking suitable climates. Scientific Reports, 2018, 8, 4623.	1.6	41
22	Evaluation of invasive and nonâ€invasive methods to monitor rodent abundance in the Arctic. Ecosphere, 2018, 9, e02124.	1.0	28
23	Changements climatiquesÂ: dÃ©fis et perspectives pour les plantes vasculaires en situation prÃ©caire au QuÃ©bec. Le Naturaliste Canadien, 2018, 142, 16-35.	0.2	1
24	Precipitation and ectoparasitism reduce reproductive success in an arctic-nesting top-predator. Scientific Reports, 2018, 8, 8530.	1.6	16
25	Discrimination factors of carbon and nitrogen stable isotopes from diet to hair in captive large Arctic carnivores of conservation concern. Rapid Communications in Mass Spectrometry, 2018, 32, 1773-1780.	0.7	9
26	Predicting the distribution of poorly-documented species, Northern black widow (Latrodectus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 data. PLoS ONE, 2018, 13, e0201094.	1.1	27
27	Effects of changing permafrost and snow conditions on tundra wildlife: critical places and times. Arctic Science, 2017, 3, 65-90.	0.9	65
28	Age Estimation of Live Arctic Foxes Vulpes lagopus Based on Teeth Condition. Wildlife Biology, 2017, 2017, 1-6.	0.6	21
29	Assessing Stress in Arctic Lemmings: Fecal Metabolite Levels Reflect Plasma Free Corticosterone Levels. Physiological and Biochemical Zoology, 2017, 90, 370-382.	0.6	19
30	Pines and porcupines: a tree-ring analysis of browsing and dynamics of an overmature pine forest. Canadian Journal of Forest Research, 2017, 47, 257-268.	0.8	5
31	Winter home range fidelity and extraterritorial movements of Arctic fox pairs in the Canadian High Arctic. Polar Research, 2017, 36, 11.	1.6	12
32	Foreword to Supplement 1: research on a polar speciesâ€”the Arctic fox. Polar Research, 2017, 36, 1.	1.6	13
33	Harmonizing circumpolar monitoring of Arctic fox: benefits, opportunities, challenges and recommendations. Polar Research, 2017, 36, 2.	1.6	35
34	Evolution, ecology and conservationâ€”revisiting three decades of Arctic fox population genetic research. Polar Research, 2017, 36, 4.	1.6	10
35	Homage to Hersteinsson and Macdonald: climate warming and resource subsidies cause red fox range expansion and Arctic fox decline. Polar Research, 2017, 36, 3.	1.6	72
36	Movement tactics of a mobile predator in a metaâ€ecosystem with fluctuating resources: the arctic fox in the High Arctic. Oikos, 2017, 126, 937-947.	1.2	29

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37	Fine-scale population genetic structure of arctic foxes (Vulpes lagopus) in the High Arctic. BMC Research Notes, 2017, 10, 663.	0.6	2
38	Feeding preference of brown lemmings (Lemmus trimucronatus) for plant parts of Arctic willow (Salix arctica). Polar Biology, 2017, 40, 2329-2334.	0.5	2
39	Topâ€down limitation of lemmings revealed by experimental reduction of predators. Ecology, 2016, 97, 3231-3241.	1.5	28
40	Crossâ€scale integration of knowledge for predicting species ranges: a metamodelling framework. Global Ecology and Biogeography, 2016, 25, 238-249.	2.7	88
41	Predation of arctic fox (Vulpes lagopus) pups by common ravens (Corvus corax). Polar Biology, 2016, 39, 1335-1341.	0.5	10
42	An Objective Approach to Select Climate Scenarios when Projecting Species Distribution under Climate Change. PLoS ONE, 2016, 11, e0152495.	1.1	23
43	Seasonal demography of a cyclic lemming population in the <scp>C</scp>anadian <scp>A</scp>rctic. Journal of Animal Ecology, 2015, 84, 1412-1422.	1.3	74
44	Highly Overlapping Winter Diet in Two Sympatric Lemming Species Revealed by DNA Metabarcoding. PLoS ONE, 2015, 10, e0115335.	1.1	125
45	Red foxes (Vulpes vulpes) at their expanding front in the Canadian Arctic have indigenous maternal ancestry. Polar Biology, 2015, 38, 913-917.	0.5	11
46	Spatioâ€“temporal hotspots of satelliteâ€“tracked arctic foxes reveal a large detection range in a mammalian predator. Movement Ecology, 2015, 3, 37.	1.3	29
47	Evaluation of Argos Telemetry Accuracy in the High-Arctic and Implications for the Estimation of Home-Range Size. PLoS ONE, 2015, 10, e0141999.	1.1	15
48	Hide or die: use of cover decreases predation risk in juvenile North Axmerican porcupines. Journal of Mammalogy, 2014, 95, 992-1003.	0.6	12
49	Arctic ecosystem structure and functioning shaped by climate and herbivore body size. Nature Climate Change, 2014, 4, 379-383.	8.1	92
50	Natal den selection by sympatric arctic and red foxes on Herschel Island, Yukon, Canada. Polar Biology, 2014, 37, 333-345.	0.5	21
51	Predator-mediated interactions between lemmings and shorebirds: A test of the alternative prey hypothesis. Auk, 2014, 131, 619-628.	0.7	47
52	Sources of variation in small rodent trophic niche: new insights from DNA metabarcoding and stable isotope analysis. Isotopes in Environmental and Health Studies, 2014, 50, 361-381.	0.5	21
53	Does lemming winter grazing impact vegetation in the Canadian Arctic?. Polar Biology, 2014, 37, 845-857.	0.5	16
54	Demographic response of tundra small mammals to a snow fencing experiment. Oikos, 2013, 122, 1167-1176.	1.2	23

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55	The effect of snow cover on lemming population cycles in the Canadian High Arctic. Oecologia, 2013, 172, 1007-1016.	0.9	53
56	Effect of snow cover on the vulnerability of lemmings to mammalian predators in the Canadian Arctic. Journal of Mammalogy, 2013, 94, 813-819.	0.6	30
57	Predatorâ€mediated interactions between preferred, alternative and incidental prey in the arctic tundra. Oikos, 2013, 122, 1042-1048.	1.2	47
58	Long-term monitoring at multiple trophic levels suggests heterogeneity in responses to climate change in the Canadian Arctic tundra. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120482.	1.8	122
59	QuÃ©bec's Large-Scale Plan Nord. Conservation Biology, 2013, 27, 242-243.	2.4	8
60	Evaluation of a Technique to Trap Lemmings Under the Snow. Arctic, 2013, 66, .	0.2	12
61	Recent climate-related terrestrial biodiversity research in Canada's Arctic national parks: review, summary, and management implications. Biodiversity, 2012, 13, 157-173.	0.5	2
62	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
63	Time series data for Canadian arctic vertebrates: IPY contributions to science, management, and policy. Climatic Change, 2012, 115, 235-258.	1.7	13
64	Disentangling trophic relationships in a High Arctic tundra ecosystem through food web modeling. Ecology, 2012, 93, 1707-1716.	1.5	88
65	The Marine Side of a Terrestrial Carnivore: Intra-Population Variation in Use of Allochthonous Resources by Arctic Foxes. PLoS ONE, 2012, 7, e42427.	1.1	40
66	Arctic fox versus red fox in the warming Arctic: four decades of den surveys in north Yukon. Polar Biology, 2012, 35, 1421-1431.	0.5	43
67	Benefiting from a migratory prey: spatioâ€temporal patterns in allochthonous subsidization of an arctic predator. Journal of Animal Ecology, 2012, 81, 533-542.	1.3	72
68	Demographic Amplification of Climate Change Experienced by the Contiguous United States Population during the 20th Century. PLoS ONE, 2012, 7, e45683.	1.1	4
69	Identifying high residency areas of the threatened St. Lawrence beluga whale from fine-scale movements of individuals and coarse-scale movements of herds. Marine Ecology - Progress Series, 2012, 450, 243-257.	0.9	29
70	The tundra food web of Bylot Island in a changing climate and the role of exchanges between ecosystems. Ecoscience, 2011, 18, 223-235.	0.6	85
71	Evaluation of a method to determine the breeding activity of lemmings in their winter nests. Journal of Mammalogy, 2011, 92, 511-516.	0.6	16
72	Behavioural responses of wintering porcupines to their heterogeneous thermal environment. Ecoscience, 2011, 18, 341-353.	0.6	4

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73	Stable isotope analysis: modelling lipid normalization for muscle and eggs from arctic mammals and birds. Methods in Ecology and Evolution, 2011, 2, 66-76.	2.2	55
74	Geographic disparities and moral hazards in the predicted impacts of climate change on human populations. Global Ecology and Biogeography, 2011, 20, 532-544.	2.7	101
75	Generation of Priority Research Questions to Inform Conservation Policy and Management at a National Level. Conservation Biology, 2011, 25, 476-484.	2.4	80
76	Habitat selection, reproduction and predation of wintering lemmings in the Arctic. Oecologia, 2011, 167, 967-980.	0.9	75
77	Spatial variation in food availability predicts extrapair paternity in the arctic fox. Behavioral Ecology, 2011, 22, 1364-1373.	1.0	33
78	Demography of two lemming species on Bylot Island, Nunavut, Canada. Polar Biology, 2010, 33, 725-736.	0.5	28
79	Northern nomads: ability for extensive movements in adult arctic foxes. Polar Biology, 2010, 33, 1021-1026.	0.5	58
80	Predation as a probable mechanism relating winter weather to population dynamics in a North American porcupine population. Population Ecology, 2010, 52, 537-546.	0.7	17
81	The CC-Bio Project: Studying the Effects of Climate Change on Quebec Biodiversity. Diversity, 2010, 2, 1181-1204.	0.7	37
82	Sensitivity of stable isotope mixing models to variation in isotopic ratios: evaluating consequences of lipid extraction. Methods in Ecology and Evolution, 2010, 1, 231-241.	2.2	62
83	Integrating Traditional Ecological Knowledge and Ecological Science: a Question of Scale. Ecology and Society, 2009, 14, .	1.0	125
84	Survival costs of reproduction vary with age in North American red squirrels. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1129-1135.	1.2	74
85	Behavioral archives link the chemistry and clonal structure of trembling aspen to the food choice of North American porcupine. Oecologia, 2009, 160, 687-695.	0.9	23
86	Finding the right home: distribution of food resources and terrain characteristics influence selection of denning sites and reproductive dens in arctic foxes. Polar Biology, 2008, 31, 351-362.	0.5	49
87	Wavelet analysis of ecological time series. Oecologia, 2008, 156, 287-304.	0.9	552
88	Ageâ€specific variation in survival, reproductive success and offspring quality in red squirrels: evidence of senescence. Oikos, 2008, 117, 1406-1416.	1.2	91
89	Cohort effects in red squirrels: the influence of density, food abundance and temperature on future survival and reproductive success. Journal of Animal Ecology, 2008, 77, 305-314.	1.3	100
90	Cyclic dynamics of sympatric lemming populations on Bylot Island, Nunavut, Canada. Canadian Journal of Zoology, 2008, 86, 910-917.	0.4	72

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91	Hoarding of pulsed resources: Temporal variations in egg-caching by arctic fox. Ecoscience, 2008, 15, 268-276.	0.6	28
92	Surviving on cached foodsÂâ€" the energetics of egg-caching by arctic foxes. Canadian Journal of Zoology, 2008, 86, 1217-1223.	0.4	14
93	Heavy browsing by a mammalian herbivore does not affect fluctuating asymmetry of its food plants. Ecoscience, 2007, 14, 188-194.	0.6	7
94	Free love in the far north: plural breeding and polyandry of arctic foxes (Alopex lagopus) on Bylot Island, Nunavut. Canadian Journal of Zoology, 2007, 85, 338-343.	0.4	12
95	Historical and ecological determinants of genetic structure in arctic canids. Molecular Ecology, 2007, 16, 3466-3483.	2.0	110
96	Female red squirrels fit Williamsâ€™ hypothesis of increasing reproductive effort with increasing age. Journal of Animal Ecology, 2007, 76, 1192-1201.	1.3	58
97	Cache and carry: hoarding behavior of arctic fox. Behavioral Ecology and Sociobiology, 2007, 62, 87-96.	0.6	37
98	Common ravens raid arctic fox food caches. Journal of Ethology, 2007, 25, 79-82.	0.4	15
99	Influence of thermal fronts on habitat selection by four rorqual whale species in the Gulf of St. Lawrence. Marine Ecology - Progress Series, 2007, 335, 207-216.	0.9	90
100	Best squirrels trade a long life for an early reproduction. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2369-2374.	1.2	79
101	Measuring, understanding and projecting the effects of large-scale climatic variability on mammals. Climate Research, 2006, 32, 95-97.	0.4	15
102	Problems and pitfalls in relating climate variability to population dynamics. Climate Research, 2006, 32, 143-149.	0.4	57
103	Constraints to projecting the effects of climate change on mammals. Climate Research, 2006, 32, 151-158.	0.4	75
104	Expenditure freeze: the metabolic response of small mammals to cold environments. Ecology Letters, 2005, 8, 1326-1333.	3.0	99
105	Impacts of mosquitoes and black flies on defensive behaviour and microhabitat use of the North American porcupine (Erethizon dorsatum) in southern Quebec. Canadian Journal of Zoology, 2005, 83, 754-764.	0.4	7
106	SPRING-TO-FALL MASS GAIN IN A NORTHERN POPULATION OF NORTH AMERICAN PORCUPINES. Journal of Mammalogy, 2005, 86, 514-519.	0.6	12
107	Hierarchical habitat selection by North American porcupines in southern boreal forest. Canadian Journal of Zoology, 2005, 83, 1333-1342.	0.4	24
108	Keeping Pace with Fast Climate Change: Can Arctic Life Count on Evolution?. Integrative and Comparative Biology, 2004, 44, 140-151.	0.9	207

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109	Intraclonal variation in defence substances and palatability: a study onCarexand lemmings. Oikos, 2004, 105, 461-470.	1.2	21
110	Porcupine Feeding Scars and Climatic Data Show Ecosystem Effects of the Solar Cycle. American Naturalist, 2004, 164, 283-297.	1.0	56
111	LIFETIME SELECTION ON HERITABLE LIFE-HISTORY TRAITS IN A NATURAL POPULATION OF RED SQUIRRELS. Evolution; International Journal of Organic Evolution, 2003, 57, 2416-2423.	1.1	93
112	Genetic and plastic responses of a northern mammal to climate change. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 591-596.	1.2	383
113	Terrestrial trophic dynamics in the Canadian Arctic. Canadian Journal of Zoology, 2003, 81, 827-843.	0.4	66
114	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
115	IMMOBILIZATION OF NORTH AMERICAN PORCUPINES (ERETHIZON DORSATUM) USING KETAMINE AND XYLAZINE. Journal of Wildlife Diseases, 2003, 39, 675-682.	0.3	9
116	MATERNAL EFFECTS AND THE POTENTIAL FOR EVOLUTION IN A NATURAL POPULATION OF ANIMALS. Evolution; International Journal of Organic Evolution, 2002, 56, 846-851.	1.1	121
117	Effect of Muskox Carcasses on Nitrogen Concentration in Tundra Vegetation. Arctic, 2002, 55, .	0.2	53
118	BREEDING DISPERSAL IN FEMALE NORTH AMERICAN RED SQUIRRELS. Ecology, 2000, 81, 1311-1326.	1.5	130
119	ENERGETIC COST OF HEATING INGESTED FOOD IN MAMMALIAN HERBIVORES. Journal of Mammalogy, 2000, 81, 683-690.	0.6	11
120	Anticipatory parental care: acquiring resources for offspring prior to conception. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 2081-2085.	1.2	32
121	Seasonal and Interindividual Variation in Field Water Metabolism of Female Meadow VolesMicrotus pennsylvanicus. Physiological and Biochemical Zoology, 1999, 72, 545-554.	0.6	9
122	Multiple paternity in meadow voles (Microtus pennsylvanicus): investigating the role of the female. Behavioral Ecology and Sociobiology, 1999, 45, 283-291.	0.6	74
123	Food choice by white-tailed deer in relation to protein and energy content of the diet: a field experiment. Oecologia, 1998, 115, 84-92.	0.9	97
124	Testing energy expenditure hypotheses: reallocation versus increased demand in Microtus pennsylvanicus. Acta Theriologica, 1998, 43, 13-21.	1.1	9
125	Repeatability of Daily Field Metabolic Rate in Female Meadow Voles (Microtus pennsylvanicus). Functional Ecology, 1996, 10, 751.	1.7	90
126	Solitude versus Gregariousness: Do Physical Benefits Drive the Choice in Overwintering Meadow Voles?. Oikos, 1996, 76, 330.	1.2	22

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127	Effect of Carrying a Radiocollar on Expenditure of Energy by Meadow Voles. Journal of Mammalogy, 1996, 77, 359-363.	0.6	36
128	Presence and First Breeding Attempts of Southern Gannets Morus capensis and M. senator at Saint Paul Island, Southern Indian Ocean. Emu, 1995, 95, 134-137.	0.2	3
129	Osteometric study of the metapodials of Amsterdam Island feral cattle. Acta Theriologica, 1995, 40, 97-110.	1.1	15
130	Can radio collars affect dominance relationships in Microtus?. Canadian Journal of Zoology, 1994, 72, 785-789.	0.4	23
131	Female-Biased Mortality in a Sexually Dimorphic Ungulate: Feral Cattle of Amsterdam Island. Journal of Mammalogy, 1993, 74, 732-737.	0.6	24
132	Population studies and reproduction of the feral cattle (Bos taurus) of Amsterdam Island, Indian Ocean. Journal of Zoology, 1992, 228, 265-276.	0.8	23
133	Life in the fast lane: learning from the rare multi-year recaptures of brown lemmings in the High Arctic. Arctic Science, 0, , .	0.9	4
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	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