

# David S Hik

## List of Publications by Year in descending order

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131  
papers

10,913  
citations

66343  
42  
h-index

31849  
101  
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132  
all docs

132  
docs citations

132  
times ranked

11856  
citing authors

#	ARTICLE	IF	CITATIONS
1	What are the effects of herbivore diversity on tundra ecosystems? A systematic review protocol. <i>Environmental Evidence</i> , 2022, 11, .	2.7	4
2	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	9.5	113
3	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. <i>Biological Conservation</i> , 2021, 263, 109175.	4.1	96
4	The effects of different management interventions on degraded rangelands in Iceland. <i>Land Degradation and Development</i> , 2021, 32, 4583.	3.9	1
5	The physical and chemical limnology of Yukon's largest lake, Lake Kluane (Kluane Lake), prior to the 2016 Chilkot River diversion. <i>Arctic Science</i> , 2021, 7, 655-678.	2.3	4
6	These Trees Have Stories to Tell: Linking Dene Oral History of Caribou Use with Trample Scar Frequency on Black Spruce Roots at Edacho Ku. <i>Arctic</i> , 2021, 74, 290-305.	0.4	1
7	A methane sink in the Central American high elevation páramo: Topographic, soil moisture and vegetation effects. <i>Geoderma</i> , 2020, 362, 114092.	5.1	12
8	CH <sub>4</sub> uptake along a successional gradient in temperate alpine soils. <i>Biogeochemistry</i> , 2020, 147, 109-123.	3.5	6
9	Evidence for Elevation-Dependent Warming in the St. Elias Mountains, Yukon, Canada. <i>Journal of Climate</i> , 2020, 33, 3253-3269.	3.2	22
10	Spatial genetic structure of Rocky Mountain bighorn sheep ( <i>Ovis canadensis canadensis</i> ) at the northern limit of their native range. <i>Canadian Journal of Zoology</i> , 2020, 98, 317-330.	1.0	6
11	Patterns of decadal, seasonal and daily visitation to mineral licks, a critical resource hotspot for mountain goats ( <i>Oreamnos americanus</i> ) in the Rocky Mountains. <i>Wildlife Biology</i> , 2020, 2020, 1-11.	1.4	6
12	Hiding in the background: community-level patterns in invertebrate herbivory across the tundra biome. <i>Polar Biology</i> , 2019, 42, 1881-1897.	1.2	18
13	Need for mountain weather stations climbs. <i>Science</i> , 2019, 366, 1083-1083.	12.6	10
14	Flower visitor communities of an arctoalpine plant: Global patterns in species richness, phylogenetic diversity and ecological functioning. <i>Molecular Ecology</i> , 2019, 28, 318-335.	3.9	15
15	Climate warming as a driver of tundra shrubline advance. <i>Journal of Ecology</i> , 2018, 106, 547-560.	4.0	138
16	The sheep in wolf's clothing? Recognizing threats for land degradation in Iceland using state-transition models. <i>Land Degradation and Development</i> , 2018, 29, 1714-1725.	3.9	14
17	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018, 562, 57-62.	27.8	451
18	Spring warming in Yukon mountains is not amplified by the snow albedo feedback. <i>Scientific Reports</i> , 2018, 8, 9000.	3.3	5

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19	Higher predation risk for insect prey at low latitudes and elevations. <i>Science</i> , 2017, 356, 742-744.	12.6	353
20	Automated content analysis as a tool for research and practice: a case illustration from the Prairie Creek and Nico environmental assessments in the Northwest Territories, Canada. <i>Impact Assessment and Project Appraisal</i> , 2017, 35, 139-147.	1.8	3
21	Background invertebrate herbivory on dwarf birch ( <i>Betula glandulosa-nana</i> complex) increases with temperature and precipitation across the tundra biome. <i>Polar Biology</i> , 2017, 40, 2265-2278.	1.2	47
22	Spring and summer monthly MODIS LST is inherently biased compared to air temperature in snow covered sub-Arctic mountains. <i>Remote Sensing of Environment</i> , 2017, 189, 14-24.	11.0	31
23	Phenology and species determine growing season albedo increase at the altitudinal limit of shrub growth in the sub-Arctic. <i>Global Change Biology</i> , 2016, 22, 3621-3631.	9.5	30
24	Biotic interactions mediate patterns of herbivore diversity in the Arctic. <i>Global Ecology and Biogeography</i> , 2016, 25, 1108-1118.	5.8	26
25	The accuracy of satellite-derived albedo for northern alpine and glaciated land covers. <i>Polar Science</i> , 2016, 10, 262-269.	1.2	21
26	Herbivory Network: An international, collaborative effort to study herbivory in Arctic and alpine ecosystems. <i>Polar Science</i> , 2016, 10, 297-302.	1.2	21
27	Warming the tundra: reciprocal responses of invertebrate herbivores and plants. <i>Oikos</i> , 2016, 125, 20-28.	2.7	27
28	Moss Mediates the Influence of Shrub Species on Soil Properties and Processes in Alpine Tundra. <i>PLoS ONE</i> , 2016, 11, e0164143.	2.5	13
29	Diet breadth of <i>Gynaephora groenlandica</i> (Lepidoptera: Erebiidae): is polyphagy greater in alpine versus Arctic populations?. <i>Canadian Entomologist</i> , 2015, 147, 215-221.	0.8	4
30	UNDERSTANDING EARTH'S POLAR CHALLENGES: INTERNATIONAL POLAR YEAR 2007-2008. Igor Krupnik, Ian Allison, Robin Bell, Paul Cutler, David Hik, Jerónimo López-Martínez, Volker Rachold, Eduard Sarukhanian and Colin Summerhayes (editors). 2011. Rovaniemi: University of the Arctic (digital), Edmonton: CCI Press in collaboration with University of the Arctic and ICSU/WMO Joint Committee for International Polar Year 2007-2008 (print). xxiv + 695 p, illustrated, hardcover. ISBN 978-952-484-403-1 (digital), ISBN 978-1. <i>Polar Record</i> , 2015, 51, 339-340.	0.8	0
31	Climate sensitivity of shrub growth across the tundra biome. <i>Nature Climate Change</i> , 2015, 5, 887-891.	18.8	447
32	A roadmap for Antarctic and Southern Ocean science for the next two decades and beyond. <i>Antarctic Science</i> , 2015, 27, 3-18.	0.9	158
33	Circumpolar stakeholder perspectives on Geographic Information Systems for communicating the health impacts of development. <i>Environmental Science and Policy</i> , 2015, 54, 176-184.	4.9	6
34	Ecological, Evolutionary and Social Constraints on Reproductive Effort: Are Hoary Marmots Really Biennial Breeders?. <i>PLoS ONE</i> , 2015, 10, e0119081.	2.5	5
35	Understanding Earth's Polar Challenges: International Polar Year 2007-2008, Summary by the IPY Joint Committee, edited by I. Krupnik, I. Allison, R. Bell, P. Cutler, D. Hik, J. López-Martínez, V. Rachold, E. Sarukhanian and C. Summerhayes. <i>Arctic</i> , 2015, 68, 122.	0.4	0
36	Estimating Temperature Fields from MODIS Land Surface Temperature and Air Temperature Observations in a Sub-Arctic Alpine Environment. <i>Remote Sensing</i> , 2014, 6, 946-963.	4.0	72

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37	Gene flow and the restoration of genetic diversity in a fluctuating collared pika ( <i>Ochotona collaris</i> ) population. <i>Conservation Genetics</i> , 2014, 15, 37-48.	1.5	8
38	Influence of Shrub Canopies on Growth Rate and Pre-Hibernation Mass of Juvenile Arctic Ground Squirrels. <i>Wildlife Biology</i> , 2014, 20, 253-258.	1.4	3
39	Giving-up densities and foraging behaviour indicate possible effects of shrub encroachment on arctic ground squirrels. <i>Animal Behaviour</i> , 2014, 95, 1-8.	1.9	37
40	<i>The Natural History of Canadian Mammals</i> . By Donna Naughton; color art by, Paul Geraghty, Julius Csotonyi, and Brenda Carter; line art by, Donna Naughton, Micheline Beaulieu-Bouchard, and Alan McDonald. Published by the Canadian Museum of Nature and the University of Toronto Press, Toronto, Canada. \$69.95. xl + 784 p.; ill.; index. ISBN: 978-1-4426-4483-0. 2012.. <i>Quarterly Review of Biology</i> , 2014, 89, 193-194.	0.1	0
41	Fifty Years of Science at the Kluane Lake Research Station. <i>Arctic</i> , 2014, 67, .	0.4	2
42	Adaptations of a native Subantarctic flightless fly to dehydration stress: more plastic than we thought? ( Short Communication). <i>Czech Polar Reports</i> , 2014, 4, 123-128.	0.6	1
43	Evaluating Cloud Contamination in Clear-Sky MODIS Terra Daytime Land Surface Temperatures Using Ground-Based Meteorology Station Observations. <i>Journal of Climate</i> , 2013, 26, 1551-1560.	3.2	59
44	Good neighbours? Determinants of aggregation and segregation among alpine herbivores. <i>Ecoscience</i> , 2013, 20, 276-282.	1.4	7
45	Arctic ground squirrels ( <i>Urocitellus parryii</i> ) as drivers and indicators of change in northern ecosystems. <i>Mammal Review</i> , 2013, 43, 238-255.	4.8	23
46	Winter weather versus group thermoregulation: what determines survival in hibernating mammals?. <i>Oecologia</i> , 2013, 173, 139-149.	2.0	25
47	Extending the stress-gradient hypothesis "is competition among animals less common in harsh environments?. <i>Oikos</i> , 2013, 122, 516-523.	2.7	49
48	After the frass: foraging pikas select patches previously grazed by caterpillars. <i>Biology Letters</i> , 2013, 9, 20130090.	2.3	13
49	Shrub canopies influence soil temperatures but not nutrient dynamics: An experimental test of tundra snow-shrub interactions. <i>Ecology and Evolution</i> , 2013, 3, 3683-3700.	1.9	142
50	First Records of the Arctic Moth & Gynaephora groenlandica (Wocke) South of the Arctic Circle: A New Alpine Subspecies. <i>Arctic</i> , 2013, 66, .	0.4	5
51	The Lakehead Manifesto: Principles for Research and Development in the North. <i>Arctic</i> , 2013, 66, .	0.4	1
52	Uniform female-biased sex ratios in alpine willows. <i>American Journal of Botany</i> , 2012, 99, 1243-1248.	1.7	24
53	Microtopographic patterns in an arctic baydjarakh field: do fine-grain patterns enforce landscape stability?. <i>Environmental Research Letters</i> , 2012, 7, 015502.	5.2	38
54	Recent climate-related terrestrial biodiversity research in Canada's Arctic national parks: review, summary, and management implications. <i>Biodiversity</i> , 2012, 13, 157-173.	1.1	2

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55	Mountainâ€”top and valleyâ€”bottom experiences: the stress axis as an integrator of environmental variability in arctic ground squirrel populations. <i>Journal of Zoology</i> , 2012, 287, 65-75.	1.7	56
56	The impacts of climate change on circumpolar biodiversity. <i>Biodiversity</i> , 2012, 13, 134-143.	1.1	21
57	Plot-scale evidence of tundra vegetation change and links to recent summer warming. <i>Nature Climate Change</i> , 2012, 2, 453-457.	18.8	745
58	Global assessment of experimental climate warming on tundra vegetation: heterogeneity over space and time. <i>Ecology Letters</i> , 2012, 15, 164-175.	6.4	764
59	Polygynandry and even-sexed dispersal in a population of collared pikas, <i>Ochotona collaris</i> . <i>Animal Behaviour</i> , 2012, 83, 1075-1082.	1.9	18
60	Respecting and Aligning Knowledge Systems in Northern Canada: Beyond the International Polar Year. , 2012, , .		1
61	Shrub expansion in tundra ecosystems: dynamics, impacts and research priorities. <i>Environmental Research Letters</i> , 2011, 6, 045509.	5.2	1,021
62	Expansion of Canopy-Forming Willows Over the Twentieth Century on Herschel Island, Yukon Territory, Canada. <i>Ambio</i> , 2011, 40, 610-623.	5.5	91
63	Four Decades of Plant Community Change in the Alpine Tundra of Southwest Yukon, Canada. <i>Ambio</i> , 2011, 40, 660-671.	5.5	33
64	Multi-Decadal Changes in Tundra Environments and Ecosystems: Synthesis of the International Polar Year-Back to the Future Project (IPY-BTF). <i>Ambio</i> , 2011, 40, 705-716.	5.5	98
65	Variation in pika (<i>Ochotona collaris</i>, <i>O. princeps</i> </i>) vocalizations within and between populations. <i>Ecography</i> , 2010, 33, 784-795.	4.5	10
66	The role of phenotypic plasticity in responses of hunted thinhorn sheep ram horn growth to changing climate conditions. <i>Journal of Evolutionary Biology</i> , 2010, 23, 783-790.	1.7	29
67	Evidence for Selective Caching by Arctic Ground Squirrels Living in Alpine Meadows in the Yukon. <i>Arctic</i> , 2010, 58, .	0.4	3
68	IPY 2007â€”08 and the Resurgence of Northern (& Polar) Research in Canada. <i>Arctic</i> , 2010, 58, .	0.4	0
69	Plant interactions are unimportant in a subarcticâ€”alpine plant community. <i>Ecology</i> , 2009, 90, 2360-2367.	3.2	37
70	Influence of food hoarding behavior on the over-winter survival of pikas in strongly seasonal environments. <i>Oecologia</i> , 2009, 159, 107-116.	2.0	29
71	Eavesdropping on the Neighbourhood: Collared Pika (<i>Ochotona collaris</i>) Responses to Playback Calls of Conspecifics and Heterospecifics. <i>Ethology</i> , 2009, 115, 928-938.	1.1	29
72	Isolation and characterization of microsatellite loci for the collared pika (<i>Ochotona collaris</i>) and their crossâ€”amplification in five other <i>Ochotona</i> species. <i>Molecular Ecology Resources</i> , 2009, 9, 867-871.	4.8	7

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73	Ecological Dynamics Across the Arctic Associated with Recent Climate Change. <i>Science</i> , 2009, 325, 1355-1358.	12.6	1,043
74	Wolf Reproduction in Response to Caribou Migration and Industrial Development on the Central Barrens of Mainland Canada. <i>Arctic</i> , 2009, 61, .	0.4	2
75	Evidence of Recent Treeline Dynamics in Southwest Yukon from Aerial Photographs. <i>Arctic</i> , 2009, 60, .	0.4	8
76	Linking foraging behavior to population density: An assessment of GMM models for Dall sheep. <i>Ecological Modelling</i> , 2008, 211, 396-402.	2.5	1
77	Effects of Leaf Size on Forage Selection by Collared Pikas, <i>Ochotona collaris</i> . <i>Arctic, Antarctic, and Alpine Research</i> , 2008, 40, 481-486.	1.1	6
78	Discrimination of intra- and inter-specific forage quality by collared pikas ( <i>Ochotona collaris</i> ). <i>Canadian Journal of Zoology</i> , 2008, 86, 456-461.	1.0	10
79	HERBIVORY MEDIATES GRASSâ€“ENDOPHYTE RELATIONSHIPS: REPLY. <i>Ecology</i> , 2008, 89, 3545-3549.	3.2	2
80	When? Where? and for How Long? Census Design Considerations for an Alpine Lagomorph, the Collared Pika ( <i>Ochotona collaris</i> ). , 2008, , 103-113.		7
81	Climate and nutrient influences on the growth of white spruce trees in the boreal forests of the Yukon. <i>Climate Research</i> , 2008, 36, 123-130.	1.1	10
82	HERBIVORY MEDIATES GRASSâ€“ENDOPHYTE RELATIONSHIPS. <i>Ecology</i> , 2007, 88, 2752-2757.	3.2	47
83	Landscape ecology of the burrowing bettong: fire and marsupial biocontrol of shrubs in semi-arid Australia. <i>Rangeland Journal</i> , 2007, 29, 107.	0.9	14
84	Global negative vegetation feedback to climate warming responses of leaf litter decomposition rates in cold biomes. <i>Ecology Letters</i> , 2007, 10, 619-627.	6.4	379
85	Responses of white spruce ( <i>Picea glauca</i> ) to experimental warming at a subarctic alpine treeline. <i>Global Change Biology</i> , 2007, 13, 437-451.	9.5	207
86	Variability, contingency and rapid change in recent subarctic alpine tree line dynamics. <i>Journal of Ecology</i> , 2007, 95, 352-363.	4.0	270
87	Social structure and facultative mating systems of hoary marmots ( <i>Marmota caligata</i> ). <i>Molecular Ecology</i> , 2007, 16, 1245-1255.	3.9	20
88	Demographic analysis of a declining pika <i>Ochotona collaris</i> population: linking survival to broad-scale climate patterns via spring snowmelt patterns. <i>Journal of Animal Ecology</i> , 2007, 76, 899-907.	2.8	94
89	Response of Wolves to Experimental Disturbance at Homesites. <i>Journal of Wildlife Management</i> , 2007, 71, 316-320.	1.8	22
90	Rapid detection of fungal endophytes in grasses for large-scale studies. <i>Functional Ecology</i> , 2006, 20, 736-742.	3.6	26

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91	Do Exotic Vertebrates Structure the Biota of Australia? An Experimental Test in New South Wales. Ecosystems, 2006, 9, 992-1008.	3.4	28
92	Being high is better: effects of elevation and habitat on arctic ground squirrel demography. Oikos, 2005, 108, 231-240.	2.7	32
93	Influences of chronic and current season grazing by collared pikas on above-ground biomass and species richness in subarctic alpine meadows. Oecologia, 2005, 145, 287-296.	2.0	31
94	The influence of predation risk on foraging behaviour of brushtail possums in Australian woodlands. Wildlife Research, 2005, 32, 121.	1.4	40
95	Polar bear ( <i>Ursus maritimus</i> ) maternity denning habitat in western Hudson Bay: a bottom-up approach to resource selection functions. Canadian Journal of Zoology, 2005, 83, 860-870.	1.0	67
96	Interannual Variation in Timing of Parturition and Growth of Collared Pikas ( <i>Ochotona collaris</i> ) in the Southwest Yukon. Integrative and Comparative Biology, 2004, 44, 186-193.	2.0	15
97	Introduction: Biology of the Canadian Arctic: A Crucible for Change in the 21st Century. Integrative and Comparative Biology, 2004, 44, 81-84.	2.0	2
98	Isolation and characterization of microsatellite markers in hoary marmots ( <i>Marmota caligata</i> ). Molecular Ecology Notes, 2004, 4, 749-751.	1.7	14
99	Influence of habitat quality, patch size and connectivity on colonization and extinction dynamics of collared pikas <i>Ochotona collaris</i> . Journal of Animal Ecology, 2004, 73, 889-896.	2.8	120
100	Comparison of discriminant function and classification tree analyses for age classification of marmots. Oikos, 2004, 105, 575-587.	2.7	55
101	Fecal Pellet Counts as a Technique for Monitoring an Alpine-Dwelling Social Rodent, the Hoary Marmot ( <i>Marmota caligata</i> ). Arctic, Antarctic, and Alpine Research, 2004, 36, 490-494.	1.1	26
102	Survival, growth, and escape from herbivory are determined by habitat and herbivore species for three Australian woodland plants. Oecologia, 2004, 138, 231-241.	2.0	56
103	Forage selection by collared pikas, <i>Ochotona collaris</i> , under varying degrees of predation risk. Canadian Journal of Zoology, 2004, 82, 533-540.	1.0	33
104	SPATIAL HETEROGENEITY, NOT VISITATION BIAS, DOMINATES VARIATION IN HERBIVORY: COMMENT. Ecology, 2004, 85, 2901-2906.	3.2	5
105	Long Foraging Movement of a Denning Tundra Wolf. Arctic, 2004, 57, .	0.4	13
106	Putting the Canadian Polar House in Order. Arctic, 2004, 57, .	0.4	2
107	Is dimethylsulfoxide a reliable solvent for extracting chlorophyll under field conditions?. Photosynthesis Research, 2003, 78, 87-91.	2.9	53
108	What determines disturbance-productivity-diversity relationships? The effect of scale, species and environment on richness patterns in an Australian woodland. Oikos, 2003, 102, 173-185.	2.7	34

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109	Science and the St Elias: an evolving framework for sustainability in North America's highest mountains. <i>Geographical Journal</i> , 2003, 169, 191-204.	3.1	13
110	Prevalence and predictability of handling effects in field studies: results from field experiments and a meta-analysis. <i>American Journal of Botany</i> , 2003, 90, 270-277.	1.7	26
111	Grazing history versus current grazing: leaf demography and compensatory growth of three alpine plants in response to a native herbivore ( <i>Ochotona collaris</i> ). <i>Journal of Ecology</i> , 2002, 90, 348-359.	4.0	43
112	Does seasonal variation in forage quality influence the potential for resource competition between muskoxen and Peary caribou on Banks Island?. <i>Rangifer</i> , 2002, 22, 143.	0.6	4
113	Why are Arctic ground squirrels more stressed in the boreal forest than in alpine meadows?. <i>Ecoscience</i> , 2001, 8, 275-288.	1.4	72
114	Global change and arctic ecosystems: is lichen decline a function of increases in vascular plant biomass?. <i>Journal of Ecology</i> , 2001, 89, 984-994.	4.0	360
115	Global change and arctic ecosystems: is lichen decline a function of increases in vascular plant biomass?. <i>Journal of Ecology</i> , 2001, 89, 984-994.	4.0	256
116	THE IMPACT OF PREDATOR-INDUCED STRESS ON THE SNOWSHOE HARE CYCLE. <i>Ecological Monographs</i> , 1998, 68, 371-394.	5.4	465
117	Predicting Effects of Predation on Conservation of Endangered Prey. <i>Conservation Biology</i> , 1998, 12, 564-575.	4.7	78
118	Predicting Effects of Predation on Conservation of Endangered Prey. <i>Conservation Biology</i> , 1998, 12, 564-575.	4.7	237
119	THE IMPACT OF PREDATOR-INDUCED STRESS ON THE SNOWSHOE HARE CYCLE. , 1998, 68, 371.		2
120	The Impact of Predator-Induced Stress on the Snowshoe Hare Cycle. <i>Ecological Monographs</i> , 1998, 68, 371.	5.4	14
121	Population Changes of the Vertebrate Community during a Snowshoe Hare Cycle in Canada's Boreal Forest. <i>Oikos</i> , 1995, 74, 69.	2.7	177
122	Biodiversity and the Need for Habitat Renewal. , 1995, 5, 579-587.		76
123	Does risk of predation influence population dynamics? Evidence from cyclic decline of snowshoe hares. <i>Wildlife Research</i> , 1995, 22, 115.	1.4	195
124	Growth responses of arctic graminoids following grazing by captive lesser snow geese. <i>Oecologia</i> , 1993, 93, 487-492.	2.0	31
125	Foraging by Geese, Isostatic Uplift and Asymmetry in the Development of Salt-Marsh Plant Communities. <i>Journal of Ecology</i> , 1992, 80, 395.	4.0	63
126	Plant Chemical Defense and Twig Selection by Snowshoe Hare: An Optimal Foraging Perspective. <i>Oikos</i> , 1992, 65, 295.	2.7	19



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127	Effects of the Timing of Multiple Grazings by Geese on Net Above-Ground Primary Production of Swards of <i>Puccinellia Phryganodes</i> . <i>Journal of Ecology</i> , 1991, 79, 715.	4.0	69
128	Increases in the Net Above-Ground Primary Production of a Salt-Marsh Forage Grass: A Test of the Predictions of the Herbivore-Optimization Model. <i>Journal of Ecology</i> , 1990, 78, 180.	4.0	204
129	The role of lesser snow geese as nitrogen processors in a sub-arctic salt marsh. <i>Oecologia</i> , 1989, 79, 23-29.	2.0	81
130	The influence of nesting habitat on reproductive success of the lesser snow goose. <i>Canadian Journal of Zoology</i> , 1988, 66, 1699-1703.	1.0	14
131	Fertilisers mediate the short-term effects of sheep grazing in the Icelandic highlands. <i>Icelandic Agricultural Sciences</i> , 0, 32, 75-85.	0.0	3