David S Hik

List of Publications by Year in descending order

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31818 66315 10,913 131 42 101 citations h-index g-index papers 132 132 132 11856 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	What are the effects of herbivore diversity on tundra ecosystems? A systematic review protocol. Environmental Evidence, 2022, 11 , .	1.1	4
2	Global maps of soil temperature. Global Change Biology, 2022, 28, 3110-3144.	4.2	113
3	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. Biological Conservation, 2021, 263, 109175.	1.9	96
4	The effects of different management interventions on degraded rangelands in Iceland. Land Degradation and Development, 2021, 32, 4583.	1.8	1
5	The physical and chemical limnology of Yukon's largest lake, Lhù'ÃÃn Mân' (Kluane Lake), prior to th 2016 â€~A'ąÌ`y Chù' diversion. Arctic Science, 2021, 7, 655-678.	ⁿ 6.9	4
6	"These Trees Have Stories to Tell†Linking DënesÇ«ÌÅ,ıné Oral History of Caribou Use with Trample Scal Frequency on Black Spruce Roots at Éedacho Kué. Arctic, 2021, 74, 290-305.	r _{0.2}	1
7	A methane sink in the Central American high elevation p \tilde{A}_i ramo: Topographic, soil moisture and vegetation effects. Geoderma, 2020, 362, 114092.	2.3	12
8	CH4 uptake along a successional gradient in temperate alpine soils. Biogeochemistry, 2020, 147, 109-123.	1.7	6
9	Evidence for Elevation-Dependent Warming in the St. Elias Mountains, Yukon, Canada. Journal of Climate, 2020, 33, 3253-3269.	1.2	22
10	Spatial genetic structure of Rocky Mountain bighorn sheep (<i>Ovis canadensis canadensis</i>) at the northern limit of their native range. Canadian Journal of Zoology, 2020, 98, 317-330.	0.4	6
11	Patterns of decadal, seasonal and daily visitation to mineral licks, a critical resource hotspot for mountain goats <i>Oreamnos americanus</i> i> in the Rocky Mountains. Wildlife Biology, 2020, 2020, 1-11.	0.6	6
12	Hiding in the background: community-level patterns in invertebrate herbivory across the tundra biome. Polar Biology, 2019, 42, 1881-1897.	0.5	18
13	Need for mountain weather stations climbs. Science, 2019, 366, 1083-1083.	6.0	10
14	Flowerâ€visitor communities of an arctoâ€elpine plantâ€"Global patterns in species richness, phylogenetic diversity and ecological functioning. Molecular Ecology, 2019, 28, 318-335.	2.0	15
15	Climate warming as a driver of tundra shrubline advance. Journal of Ecology, 2018, 106, 547-560.	1.9	138
16	The sheep in wolf's clothing? <scp>R</scp> ecognizing threats for land degradation in Iceland using stateâ€andâ€transition models. Land Degradation and Development, 2018, 29, 1714-1725.	1.8	14
17	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	13.7	451
18	Spring warming in Yukon mountains is not amplified by the snow albedo feedback. Scientific Reports, 2018, 8, 9000.	1.6	5

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19	Higher predation risk for insect prey at low latitudes and elevations. Science, 2017, 356, 742-744.	6.0	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. Impact Assessment and Project Appraisal, 2017, 35, 139-147.	1.0	3
21	Background invertebrate herbivory on dwarf birch (Betula glandulosa-nana complex) increases with temperature and precipitation across the tundra biome. Polar Biology, 2017, 40, 2265-2278.	0.5	47
22	Spring and summer monthly MODIS LST is inherently biased compared to air temperature in snow covered sub-Arctic mountains. Remote Sensing of Environment, 2017, 189, 14-24.	4.6	31
23	Phenology and species determine growingâ€season albedo increase at the altitudinal limit of shrub growth in the subâ€Arctic. Global Change Biology, 2016, 22, 3621-3631.	4.2	30
24	Biotic interactions mediate patterns of herbivore diversity in the Arctic. Global Ecology and Biogeography, 2016, 25, 1108-1118.	2.7	26
25	The accuracy of satellite-derived albedo for northern alpine and glaciated land covers. Polar Science, 2016, 10, 262-269.	0.5	21
26	Herbivory Network: An international, collaborative effort to study herbivory in Arctic and alpine ecosystems. Polar Science, 2016, 10, 297-302.	0.5	21
27	Warming the tundra: reciprocal responses of invertebrate herbivores and plants. Oikos, 2016, 125, 20-28.	1.2	27
28	Moss Mediates the Influence of Shrub Species on Soil Properties and Processes in Alpine Tundra. PLoS ONE, 2016, 11, e0164143.	1.1	13
29	Diet breadth of Gynaephora groenlandica (Lepidoptera: Erebidae): is polyphagy greater in alpine versus Arctic populations?. Canadian Entomologist, 2015, 147, 215-221. UNDERSTANDING EARTH'S POLAR CHALLEN-GES: INTERNATIONAL POLAR YEAR 2007–2008. Igor Krupnik,	0.4 lan	4
30	Allison, Robin Bell, Paul Cutler, David Hik, Jerónimo López-MartÃnez, 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	0.4	0
31	978-952-484-403-1 (digital), ISBN 978-1. Polar Record, 2015, 51, 339-340. Climate sensitivity of shrub growth across the tundra biome. Nature Climate Change, 2015, 5, 887-891.	8.1	447
32	A roadmap for Antarctic and Southern Ocean science for the next two decades and beyond. Antarctic Science, 2015, 27, 3-18.	0.5	158
33	Circumpolar stakeholder perspectives on Geographic Information Systems for communicating the health impacts of development. Environmental Science and Policy, 2015, 54, 176-184.	2.4	6
34	Ecological, Evolutionary and Social Constraints on Reproductive Effort: Are Hoary Marmots Really Biennial Breeders?. PLoS ONE, 2015, 10, e0119081.	1.1	5
35	Understanding Earth's Polar Challenges: International Polar Year 2007–08, Summary by the IPY Joint Committee, edited by I. Krupnik, I. Allison, R. Bell, P. Cutler, D. Hik, J. López-Martinez, V. Rachold, E. Sarukhanian and C. Summerhayes. Arctic, 2015, 68, 122.	0.2	0
36	Estimating Temperature Fields from MODIS Land Surface Temperature and Air Temperature Observations in a Sub-Arctic Alpine Environment. Remote Sensing, 2014, 6, 946-963.	1.8	72

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37	Gene flow and the restoration of genetic diversity in a fluctuating collared pika (Ochotona collaris) population. Conservation Genetics, 2014, 15, 37-48.	0.8	8
38	Influence of Shrub Canopies on Growth Rate and Pre-Hibernation Mass of Juvenile Arctic Ground Squirrels. Wildlife Biology, 2014, 20, 253-258.	0.6	3
39	Giving-up densities and foraging behaviour indicate possible effects of shrub encroachment on arctic ground squirrels. Animal Behaviour, 2014, 95, 1-8.	0.8	37
40	<i>The Natural History of Canadian Mammals</i> 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 Quarterly Review of Biology, 2014, 89, 193-194.	0.0	0
41	Fifty Years of Science at the Kluane Lake Research Station. Arctic, 2014, 67, .	0.2	2
42	Adaptations of a native Subantarctic flightless fly to dehydration stress: more plastic than we thought? (Short Communication). Czech Polar Reports, 2014, 4, 123-128.	0.2	1
43	Evaluating Cloud Contamination in Clear-Sky MODIS Terra Daytime Land Surface Temperatures Using Ground-Based Meteorology Station Observations. Journal of Climate, 2013, 26, 1551-1560.	1.2	59
44	Good neighbours? Determinants of aggregation and segregation among alpine herbivores. Ecoscience, 2013, 20, 276-282.	0.6	7
45	<scp>A</scp> rctic ground squirrels <i><scp>U</scp>rocitellus parryii</i> as drivers and indicators of change in northern ecosystems. Mammal Review, 2013, 43, 238-255.	2.2	23
46	Winter weather versus group thermoregulation: what determines survival in hibernating mammals?. Oecologia, 2013, 173, 139-149.	0.9	25
47	Extending the stressâ€gradient hypothesis – is competition among animals less common in harsh environments?. Oikos, 2013, 122, 516-523.	1.2	49
48	After the frass: foraging pikas select patches previously grazed by caterpillars. Biology Letters, 2013, 9, 20130090.	1.0	13
49	Shrub canopies influence soil temperatures but not nutrient dynamics: An experimental test of tundra snow–shrub interactions. Ecology and Evolution, 2013, 3, 3683-3700.	0.8	142
50	First Records of the Arctic Moth <i>Gynaephora groenlandica</i> (Wocke) South of the Arctic Circle: A New Alpine Subspecies. Arctic, 2013, 66, .	0.2	5
51	The Lakehead Manifesto: Principles for Research and Development in the North. Arctic, 2013, 66, .	0.2	1
52	Uniform female-biased sex ratios in alpine willows. American Journal of Botany, 2012, 99, 1243-1248.	0.8	24
53	Microtopographic patterns in an arctic baydjarakh field: do fine-grain patterns enforce landscape stability?. Environmental Research Letters, 2012, 7, 015502.	2.2	38
54	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

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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. Journal of Zoology, 2012, 287, 65-75.	0.8	56
56	The impacts of climate change on circumpolar biodiversity. Biodiversity, 2012, 13, 134-143.	0.5	21
57	Plot-scale evidence of tundra vegetation change and links to recent summer warming. Nature Climate Change, 2012, 2, 453-457.	8.1	745
58	Global assessment of experimental climate warming on tundra vegetation: heterogeneity over space and time. Ecology Letters, 2012, 15, 164-175.	3.0	764
59	Polygynandry and even-sexed dispersal in a population of collared pikas, Ochotona collaris. Animal Behaviour, 2012, 83, 1075-1082.	0.8	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. Environmental Research Letters, 2011, 6, 045509.	2.2	1,021
62	Expansion of Canopy-Forming Willows Over the Twentieth Century on Herschel Island, Yukon Territory, Canada. Ambio, 2011, 40, 610-623.	2.8	91
63	Four Decades of Plant Community Change in the Alpine Tundra of Southwest Yukon, Canada. Ambio, 2011, 40, 660-671.	2.8	33
64	Multi-Decadal Changes in Tundra Environments and Ecosystems: Synthesis of the International Polar Year-Back to the Future Project (IPY-BTF). Ambio, 2011, 40, 705-716.	2.8	98
65	Variation in pika (<i>Ochotona collaris, O. princeps</i>) vocalizations within and between populations. Ecography, 2010, 33, 784-795.	2.1	10
66	The role of phenotypic plasticity in responses of hunted thinhorn sheep ram horn growth to changing climate conditions. Journal of Evolutionary Biology, 2010, 23, 783-790.	0.8	29
67	Evidence for Selective Caching by Arctic Ground Squirrels Living in Alpine Meadows in the Yukon. Arctic, 2010, 58, .	0.2	3
68	IPY 2007–08 and the Resurgence of Northern (& Polar) Research in Canada. Arctic, 2010, 58, .	0.2	0
69	Plant interactions are unimportant in a subarctic–alpine plant community. Ecology, 2009, 90, 2360-2367.	1.5	37
70	Influence of food hoarding behavior on the over-winter survival of pikas in strongly seasonal environments. Oecologia, 2009, 159, 107-116.	0.9	29
71	Eavesdropping on the Neighbourhood: Collared Pika (<i>Ochotona collaris</i>) Responses to Playback Calls of Conspecifics and Heterospecifics. Ethology, 2009, 115, 928-938.	0.5	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. Molecular Ecology Resources, 2009, 9, 867-871.	2.2	7

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73	Ecological Dynamics Across the Arctic Associated with Recent Climate Change. Science, 2009, 325, 1355-1358.	6.0	1,043
74	Wolf Reproduction in Response to Caribou Migration and Industrial Development on the Central Barrens of Mainland Canada. Arctic, 2009, 61, .	0.2	2
75	Evidence of Recent Treeline Dynamics in Southwest Yukon from Aerial Photographs. Arctic, 2009, 60, .	0.2	8
76	Linking foraging behavior to population density: An assessment of GMM models for Dall sheep. Ecological Modelling, 2008, 211, 396-402.	1.2	1
77	Effects of Leaf Size on Forage Selection by Collared Pikas, Ochotona Collaris. Arctic, Antarctic, and Alpine Research, 2008, 40, 481-486.	0.4	6
78	Discrimination of intra- and inter-specific forage quality by collared pikas (Ochotona collaris). Canadian Journal of Zoology, 2008, 86, 456-461.	0.4	10
79	HERBIVORY MEDIATES GRASS–ENDOPHYTE RELATIONSHIPS: REPLY. Ecology, 2008, 89, 3545-3549.	1.5	2
80	When? Where? and for How Long? Census Design Considerations for an Alpine Lagomorph, the Collared Pika (Ochotona collaris)., 2008, , 103-113.		7
81	Climate and nutrient influences on the growth of white spruce trees in the boreal forests of the Yukon. Climate Research, 2008, 36, 123-130.	0.4	10
82	HERBIVORY MEDIATES GRASS–ENDOPHYTE RELATIONSHIPS. Ecology, 2007, 88, 2752-2757.	1.5	47
83	Landscape ecology of the burrowing bettong: fire and marsupial biocontrol of shrubs in semi-arid Australia. Rangeland Journal, 2007, 29, 107.	0.4	14
84	Global negative vegetation feedback to climate warming responses of leaf litter decomposition rates in cold biomes. Ecology Letters, 2007, 10, 619-627.	3.0	379
85	Responses of white spruce (Picea glauca) to experimental warming at a subarctic alpine treeline. Global Change Biology, 2007, 13, 437-451.	4.2	207
86	Variability, contingency and rapid change in recent subarctic alpine tree line dynamics. Journal of Ecology, 2007, 95, 352-363.	1.9	270
87	Social structure and facultative mating systems of hoary marmots (Marmota caligata). Molecular Ecology, 2007, 16, 1245-1255.	2.0	20
88	Demographic analysis of a declining pika <i>Ochotona collaris</i> population: linking survival to broadâ€scale climate patterns via spring snowmelt patterns. Journal of Animal Ecology, 2007, 76, 899-907.	1.3	94
89	Response of Wolves to Experimental Disturbance at Homesites. Journal of Wildlife Management, 2007, 71, 316-320.	0.7	22
90	Rapid detection of fungal endophytes in grasses for large-scale studies. Functional Ecology, 2006, 20, 736-742.	1.7	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.	1.6	28
92	Being high is better: effects of elevation and habitat on arctic ground squirrel demography. Oikos, 2005, 108, 231-240.	1.2	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.	0.9	31
94	The influence of predation risk on foraging behaviour of brushtail possums in Australian woodlands. Wildlife Research, 2005, 32, 121.	0.7	40
95	Polar bear ($\langle i \rangle$ Ursus maritimus $\langle i \rangle$) maternity denning habitat in western Hudson Bay: a bottom-up approach to resource selection functions. Canadian Journal of Zoology, 2005, 83, 860-870.	0.4	67
96	Interannual Variation in Timing of Parturition and Growth of Collared Pikas (Ochotona collaris) in the Southwest Yukon. Integrative and Comparative Biology, 2004, 44, 186-193.	0.9	15
97	Introduction: Biology of the Canadian Arctic: A Crucible for Change in the 21st Century. Integrative and Comparative Biology, 2004, 44, 81-84.	0.9	2
98	Isolation and characterization of microsatellite markers in hoary marmots (Marmota caligata). 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 Ochotona collaris. Journal of Animal Ecology, 2004, 73, 889-896.	1.3	120
100	Comparison of discriminant function and classification tree analyses for age classification of marmots. Oikos, 2004, 105, 575-587.	1.2	55
101	Fecal Pellet Counts as a Technique for Monitoring an Alpine-Dwelling Social Rodent, the Hoary Marmot (Marmota caligata). Arctic, Antarctic, and Alpine Research, 2004, 36, 490-494.	0.4	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.	0.9	56
103	Forage selection by collared pikas, Ochotona collaris, under varying degrees of predation risk. Canadian Journal of Zoology, 2004, 82, 533-540.	0.4	33
104	SPATIAL HETEROGENEITY, NOT VISITATION BIAS, DOMINATES VARIATION IN HERBIVORY: COMMENT. Ecology, 2004, 85, 2901-2906.	1.5	5
105	Long Foraging Movement of a Denning Tundra Wolf. Arctic, 2004, 57, .	0.2	13
106	Putting the Canadian Polar House in Order. Arctic, 2004, 57, .	0.2	2
107	Is dimethylsulfoxide a reliable solvent for extracting chlorophyll under field conditions?. Photosynthesis Research, 2003, 78, 87-91.	1.6	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.	1.2	34

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109	Science and the St Elias: an evolving framework for sustainability in North America's highest mountains. Geographical Journal, 2003, 169, 191-204.	1.6	13
110	Prevalence and predictability of handling effects in field studies: results from field experiments and a metaâ€analysis. American Journal of Botany, 2003, 90, 270-277.	0.8	26
111	Grazing history versus current grazing: leaf demography and compensatory growth of three alpine plants in response to a native herbivore (Ochotona collaris). Journal of Ecology, 2002, 90, 348-359.	1.9	43
112	Does seasonal variation in forage quality influence the potential for resource competition between muskoxen and Peary caribou on Banks Island?. Rangifer, 2002, 22, 143.	0.6	4
113	Why are Arctic ground squirrels more stressed in the boreal forest than in alpine meadows?. Ecoscience, 2001, 8, 275-288.	0.6	72
114	Global change and arctic ecosystems: is lichen decline a function of increases in vascular plant biomass?. Journal of Ecology, 2001, 89, 984-994.	1.9	360
115	Global change and arctic ecosystems: is lichen decline a function of increases in vascular plant biomass?. Journal of Ecology, 2001, 89, 984-994.	1.9	256
116	THE IMPACT OF PREDATOR-INDUCED STRESS ON THE SNOWSHOE HARE CYCLE. Ecological Monographs, 1998, 68, 371-394.	2.4	465
117	Predicting Effects of Predation on Conservation of Endangered Prey. Conservation Biology, 1998, 12, 564-575.	2.4	78
118	Predicting Effects of Predation on Conservation of Endangered Prey. Conservation Biology, 1998, 12, 564-575.	2.4	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. Ecological Monographs, 1998, 68, 371.	2.4	14
121	Population Changes of the Vertebrate Community during a Snowshoe Hare Cycle in Canada's Boreal Forest. Oikos, 1995, 74, 69.	1.2	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. Wildlife Research, 1995, 22, 115.	0.7	195
124	Growth responses of arctic graminoids following grazing by captive lesser snow geese. Oecologia, 1993, 93, 487-492.	0.9	31
125	Foraging by Geese, Isostatic Uplift and Asymmetry in the Development of Salt-Marsh Plant Communities. Journal of Ecology, 1992, 80, 395.	1.9	63
126	Plant Chemical Defense and Twig Selection by Snowshoe Hare: An Optimal Foraging Perspective. Oikos, 1992, 65, 295.	1.2	19

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127	Effects of the Timing of Multiple Grazings by Geese on Net Above-Ground Primary Production of Swards of Puccinellia Phryganodes. Journal of Ecology, 1991, 79, 715.	1.9	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. Journal of Ecology, 1990, 78, 180.	1.9	204
129	The role of lesser snow geese as nitrogen processors in a sub-arctic salt marsh. Oecologia, 1989, 79, 23-29.	0.9	81
130	The influence of nesting habitat on reproductive success of the lesser snow goose. Canadian Journal of Zoology, 1988, 66, 1699-1703.	0.4	14
131	Fertilisers mediate the short-term effects of sheep grazing in the Icelandic highlands. Icelandic Agricultural Sciences, 0, 32, 75-85.	0.0	3