

David C Douglas

List of Publications by Year in descending order

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106
papers

6,094
citations

87888

38
h-index

76900

74
g-index

118
all docs

118
docs citations

118
times ranked

5722
citing authors

#	ARTICLE	IF	CITATIONS
1	Remote sensing of vegetation and land-cover change in Arctic Tundra Ecosystems. <i>Remote Sensing of Environment</i> , 2004, 89, 281-308.	11.0	522
2	Extreme endurance flights by landbirds crossing the Pacific Ocean: ecological corridor rather than barrier?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 447-457.	2.6	363
3	Predicting 21st-century polar bear habitat distribution from global climate models. <i>Ecological Monographs</i> , 2009, 79, 25-58.	5.4	299
4	The environmental-data automated track annotation (Env-DATA) system: linking animal tracks with environmental data. <i>Movement Ecology</i> , 2013, 1, 3.	2.8	250
5	Moderating GPS location errors in animal tracking data. <i>Methods in Ecology and Evolution</i> , 2012, 3, 999-1007.	5.2	246
6	Variability of the Seasonally Integrated Normalized Difference Vegetation Index Across the North Slope of Alaska in the 1990s. <i>International Journal of Remote Sensing</i> , 2003, 24, 1111-1117.	2.9	231
7	Polar bear population dynamics in the southern Beaufort Sea during a period of sea ice decline. <i>Ecological Applications</i> , 2015, 25, 634-651.	3.8	177
8	Variation in the response of an Arctic top predator experiencing habitat loss: feeding and reproductive ecology of two polar bear populations. <i>Global Change Biology</i> , 2014, 20, 76-88.	9.5	176
9	Contrasting extreme long-distance migration patterns in bar-tailed godwits (<i>Limosa lapponica</i>). <i>Journal of Avian Biology</i> , 2012, 43, 21-32.	1.2	157
10	Greenhouse gas mitigation can reduce sea-ice loss and increase polar bear persistence. <i>Nature</i> , 2010, 468, 955-958.	27.8	151
11	Duration of the Arctic Sea Ice Melt Season: Regional and Interannual Variability, 1979-2001. <i>Journal of Climate</i> , 2004, 17, 67-80.	3.2	143
12	Landward and eastward shift of Alaskan polar bear denning associated with recent sea ice changes. <i>Polar Biology</i> , 2007, 30, 1395-1405.	1.2	143
13	Migration of Waterfowl in the East Asian Flyway and Spatial Relationship to HPAI H5N1 Outbreaks. <i>Avian Diseases</i> , 2010, 54, 466-476.	1.0	137
14	Potential spread of highly pathogenic avian influenza H5N1 by wildfowl: dispersal ranges and rates determined from large-scale satellite telemetry. <i>Journal of Applied Ecology</i> , 2010, 47, 1147-1157.	4.0	126
15	Rapid Environmental Change Drives Increased Land Use by an Arctic Marine Predator. <i>PLoS ONE</i> , 2016, 11, e0155932.	2.5	118
16	Increased Land Use by Chukchi Sea Polar Bears in Relation to Changing Sea Ice Conditions. <i>PLoS ONE</i> , 2015, 10, e0142213.	2.5	109
17	Wild Bird Migration across the Qinghai-Tibetan Plateau: A Transmission Route for Highly Pathogenic H5N1. <i>PLoS ONE</i> , 2011, 6, e17622.	2.5	100
18	At-Sea Distribution of Spectacled Eiders: A 120-Year-Old Mystery Resolved. <i>Auk</i> , 1999, 116, 1009-1020.	1.4	97

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19	Forecasting the relative influence of environmental and anthropogenic stressors on polar bears. <i>Ecosphere</i> , 2016, 7, e01370.	2.2	92
20	Hemispheric-scale wind selection facilitates bar-tailed godwit circum-migration of the Pacific. <i>Animal Behaviour</i> , 2014, 90, 117-130.	1.9	84
21	A Bayesian Network Modeling Approach to Forecasting the 21st Century Worldwide Status of Polar Bears. <i>Geophysical Monograph Series</i> , 0, , 213-268.	0.1	83
22	Increased Arctic sea ice drift alters adult female polar bear movements and energetics. <i>Global Change Biology</i> , 2017, 23, 3460-3473.	9.5	82
23	Projected status of the Pacific walrus (<i>Odobenus rosmarus divergens</i>) in the twenty-first century. <i>Polar Biology</i> , 2011, 34, 1065-1084.	1.2	77
24	The paradox of extreme high-altitude migration in bar-headed geese <i>Anser indicus</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122114.	2.6	75
25	Distribution and stability of eelgrass beds at Izembek Lagoon, Alaska. <i>Aquatic Botany</i> , 1997, 58, 229-240.	1.6	74
26	Spring fasting behavior in a marine apex predator provides an index of ecosystem productivity. <i>Global Change Biology</i> , 2018, 24, 410-423.	9.5	72
27	Interannual growth dynamics of vegetation in the Kuparuk River watershed, Alaska based on the Normalized Difference Vegetation Index. <i>International Journal of Remote Sensing</i> , 2003, 24, 3413-3425.	2.9	70
28	Collar temperature sensor data reveal long-term patterns in southern Beaufort Sea polar bear den distribution on pack ice and land. <i>Marine Ecology - Progress Series</i> , 2017, 564, 211-224.	1.9	67
29	Use of Implanted Satellite Transmitters to Locate Spectacled Eiders at-Sea. <i>Condor</i> , 1995, 97, 276-278.	1.6	65
30	Variable Migratory Patterns of Different Adult Rainbow Trout Life History Types in a Southwest Alaska Watershed. <i>Transactions of the American Fisheries Society</i> , 2003, 132, 717-732.	1.4	63
31	Eco-Virological Approach for Assessing the Role of Wild Birds in the Spread of Avian Influenza H5N1 along the Central Asian Flyway. <i>PLoS ONE</i> , 2012, 7, e30636.	2.5	63
32	Habitat degradation affects the summer activity of polar bears. <i>Oecologia</i> , 2017, 184, 87-99.	2.0	61
33	MOVEMENTS OF GOLDEN EAGLES (<i>AQUILA CHRYSAETOS</i>) FROM INTERIOR ALASKA DURING THEIR FIRST YEAR OF INDEPENDENCE. <i>Auk</i> , 2008, 125, 214-224.	1.4	59
34	Decadal declines in avian herbivore reproduction: density-dependent nutrition and phenological mismatch in the Arctic. <i>Ecology</i> , 2017, 98, 1869-1883.	3.2	57
35	Long-term change in eelgrass distribution at Bah�a San Quint�n, Baja California, Mexico, using satellite imagery. <i>Estuaries and Coasts</i> , 2003, 26, 1529-1539.	1.7	55
36	Migration of Whooper Swans and Outbreaks of Highly Pathogenic Avian Influenza H5N1 Virus in Eastern Asia. <i>PLoS ONE</i> , 2009, 4, e5729.	2.5	47

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37	Satellite-marked waterfowl reveal migratory connection between H5N1 outbreak areas in China and Mongolia. <i>Ibis</i> , 2009, 151, 568-576.	1.9	46
38	Evaluation of Potential Protective Factors Against Metabolic Syndrome in Bottlenose Dolphins: Feeding and Activity Patterns of Dolphins in Sarasota Bay, Florida. <i>Frontiers in Endocrinology</i> , 2013, 4, 139.	3.5	45
39	Use of Satellite Telemetry to Identify Common Loon Migration Routes, Staging Areas and Wintering Range. <i>Waterbirds</i> , 2002, 25, 449-458.	0.3	38
40	Multi-decadal trends in spring arrival of avian migrants to the central Arctic coast of Alaska: effects of environmental and ecological factors. <i>Journal of Avian Biology</i> , 2016, 47, 197-207.	1.2	38
41	Uncertainties in Forecasting the Response of Polar Bears to Global Climate Change. <i>Animal Welfare</i> , 2017, , 463-473.	1.0	36
42	Drivers and Environmental Responses to the Changing Annual Snow Cycle of Northern Alaska. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 2559-2577.	3.3	35
43	Seasonal Movements and Pelagic Habitat Use of Murres and Puffins Determined by Satellite Telemetry. <i>Condor</i> , 2000, 102, 145-154.	1.6	32
44	Density dependence and phenological mismatch: consequences for growth and survival of sub-arctic nesting Canada Geese. <i>Avian Conservation and Ecology</i> , 2015, 10, .	0.8	32
45	Movements of Wild Ruddy Shelducks in the Central Asian Flyway and Their Spatial Relationship to Outbreaks of Highly Pathogenic Avian Influenza H5N1. <i>Viruses</i> , 2013, 5, 2129-2152.	3.3	31
46	Den phenology and reproductive success of polar bears in a changing climate. <i>Journal of Mammalogy</i> , 2018, 99, 16-26.	1.3	30
47	Evidence for continental-scale dispersal of antimicrobial resistant bacteria by landfill-foraging gulls. <i>Science of the Total Environment</i> , 2021, 764, 144551.	8.0	30
48	SEASONAL MOVEMENTS AND PELAGIC HABITAT USE OF MURRES AND PUFFINS DETERMINED BY SATELLITE TELEMETRY. <i>Condor</i> , 2000, 102, 145.	1.6	30
49	Post-Breeding Migration of Dutch-Breeding Black-Tailed Godwits: Timing, Routes, Use of Stopovers, and Nonbreeding Destinations. <i>Ardea</i> , 2014, 101, 141-152.	0.6	29
50	Satellite tracking of gulls and genomic characterization of faecal bacteria reveals environmentally mediated acquisition and dispersal of antimicrobial-resistant <i>Escherichia coli</i> on the Kenai Peninsula, Alaska. <i>Molecular Ecology</i> , 2019, 28, 2531-2545.	3.9	29
51	Seasonal comparisons of sea ice concentration estimates derived from SSM/I, OKEAN, and RADARSAT data. <i>Remote Sensing of Environment</i> , 2002, 81, 67-81.	11.0	27
52	Estimating the time of melt onset and freeze onset over Arctic sea-ice area using active and passive microwave data. <i>Remote Sensing of Environment</i> , 2004, 92, 21-39.	11.0	27
53	Winter Ecology of Spectacled Eiders: Environmental Characteristics and Population Change. <i>Condor</i> , 2004, 106, 79-94.	1.6	26
54	Spatial and temporal variations in the age structure of Arctic sea ice. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	26

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55	Seasonal Movements of Adult Female Polar Bears in the Bering and Chukchi Seas. <i>Ursus</i> , 1990, 8, 219.	0.1	25
56	Arctic sea ice a major determinant in Mandt's black guillemot movement and distribution during non-breeding season. <i>Biology Letters</i> , 2016, 12, 20160275.	2.3	24
57	Variations in the Arctic's multiyear sea ice cover: A neural network analysis of SMMR-SSM/I data, 1979â€“2004. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	23
58	Fluctuating Arctic Sea Ice Thickness Changes Estimated by an In Situ Learned and Empirically Forced Neural Network Model. <i>Journal of Climate</i> , 2008, 21, 716-729.	3.2	22
59	Densityâ€“dependent and phenological mismatch effects on growth and survival in lesser snow and Ross's goshawks. <i>Journal of Avian Biology</i> , 2018, 49, .	1.2	22
60	Ringed seal (<i>Pusa hispida</i>) seasonal movements, diving, and haulâ€“out behavior in the Beaufort, Chukchi, and Bering Seas (2011â€“2017). <i>Ecology and Evolution</i> , 2020, 10, 5595-5616.	1.9	22
61	Spatial and temporal multiyear sea ice distributions in the Arctic: A neural network analysis of SSM/I data, 1988â€“2001. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	21
62	Patterns of social association in the franciscana, <i>Pontoporia blainvillei</i> . <i>Marine Mammal Science</i> , 2013, 29, E520.	1.8	21
63	WINTER ECOLOGY OF SPECTACLED EIDERS: ENVIRONMENTAL CHARACTERISTICS AND POPULATION CHANGE. <i>Condor</i> , 2004, 106, 79.	1.6	20
64	Evidence for the exchange of blood parasites between North America and the Neotropics in blue-winged teal (<i>Anas discors</i>). <i>Parasitology Research</i> , 2016, 115, 3923-3939.	1.6	19
65	Biogeography of pelagic food webs in the North Pacific. <i>Fisheries Oceanography</i> , 2018, 27, 366-380.	1.7	19
66	Movements of Juvenile Gyrfalcons from Western and Interior Alaska Following Departure from Their Natal Areas. <i>Journal of Raptor Research</i> , 2009, 43, 99-109.	0.6	16
67	Waterfowl occurrence and residence time as indicators of H5 and H7 avian influenza in North American Poultry. <i>Scientific Reports</i> , 2020, 10, 2592.	3.3	16
68	Classification Methods for Monitoring Arctic Sea Ice Using OKEAN Passive/Active Two-Channel Microwave Data. <i>Remote Sensing of Environment</i> , 2000, 73, 307-322.	11.0	15
69	North to Alaska: Evidence for conveyor belt transport of Dungeness crab larvae along the west coast of the United States and Canada. <i>Limnology and Oceanography</i> , 2007, 52, 248-256.	3.1	15
70	Effects of sea ice on winter site fidelity of Pacific Common Eiders (<i>Somateria mollissima v-nigrum</i>). <i>Auk</i> , 2012, 129, 399-408.	1.4	15
71	Are polar bear habitat resource selection functions developed from 1985â€“1995 data still useful?. <i>Ecology and Evolution</i> , 2019, 9, 8625-8638.	1.9	15
72	Divergent movements of walrus and sea ice in the northern Bering Sea. <i>Marine Ecology - Progress Series</i> , 2010, 407, 293-302.	1.9	15

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73	Evidence of bottom-up limitations in nearshore marine systems based on otolith proxies of fish growth. <i>Marine Biology</i> , 2015, 162, 1019-1031.	1.5	14
74	High altitude flights by ruddy shelduck (<i>Tadorna ferruginea</i>) during trans-Himalayan migrations. <i>Journal of Avian Biology</i> , 2017, 48, 1310-1315.	1.2	14
75	The Aleutian Low-Beaufort Sea Anticyclone: A Climate Index Correlated With the Timing of Springtime Melt in the Pacific Arctic Cryosphere. <i>Geophysical Research Letters</i> , 2019, 46, 7464-7473.	4.0	14
76	Survival and abundance of polar bears in Alaska's Beaufort Sea, 2001-2016. <i>Ecology and Evolution</i> , 2021, 11, 14250-14267.	1.9	14
77	Assessing trends in Arctic sea-ice distribution in the Barents and Kara seas using the Kosmos-Okean satellite series. <i>Polar Record</i> , 1995, 31, 129-134.	0.8	12
78	Rebuttal of "Polar Bear Population Forecasts: A Public-Policy Forecasting Audit". <i>Interfaces</i> , 2009, 39, 353-369.	1.5	12
79	Movements and Dive Patterns of Short-Finned Pilot Whales (<i>Globicephala macrorhynchus</i>) Released from a Mass Stranding in the Florida Keys. <i>Aquatic Mammals</i> , 2013, 39, 61-72.	0.7	12
80	A red knot as a black swan: how a single bird shows navigational abilities during repeat crossings of the Greenland Icecap. <i>Journal of Avian Biology</i> , 2020, 51, .	1.2	11
81	The spatial-temporal relationship of blue-winged teal to domestic poultry: Movement state modelling of a highly mobile avian influenza host. <i>Journal of Applied Ecology</i> , 2021, 58, 2040-2052.	4.0	11
82	Migration and Wintering Areas of American Bitterns (<i>Botaurus lentiginosus</i>) that Summer in Central North America as Determined by Satellite and Radio Telemetry, 1998-2003. <i>Waterbirds</i> , 2013, 36, 300-309.	0.3	10
83	Movements and Dive Patterns of Pygmy Killer Whales (<i>Feresa attenuata</i>) Released in the Gulf of Mexico Following Rehabilitation. <i>Aquatic Mammals</i> , 2018, 43, 555-567.	0.7	10
84	Effects of sea ice decline and summer land use on polar bear home range size in the Beaufort Sea. <i>Ecosphere</i> , 2021, 12, e03768.	2.2	10
85	First description of autumn migration of Sooty Falcon (<i>Falco concolor</i>) from the United Arab Emirates to Madagascar using satellite telemetry. <i>Bird Conservation International</i> , 2012, 22, 106-119.	1.3	9
86	Seasonal Movements of the Short-Eared Owl (<i>Asio flammeus</i>) in Western North America as Revealed by Satellite Telemetry. <i>Journal of Raptor Research</i> , 2017, 51, 115-128.	0.6	9
87	Migration Trends of Sockeye Salmon at the Northern Edge of Their Distribution. <i>Transactions of the American Fisheries Society</i> , 2017, 146, 791-802.	1.4	8
88	Tracking the Autumn Migration of the Bar-Headed Goose (<i>Anser indicus</i>) with Satellite Telemetry and Relationship to Environmental Conditions. <i>International Journal of Zoology</i> , 2011, 2011, 1-10.	0.8	7
89	Distribution and movements of Alaska-breeding Steller's Eiders in the nonbreeding period. <i>Condor</i> , 2015, 117, 341-353.	1.6	7
90	Avian predator buffers against variability in marine habitats with flexible foraging behavior. <i>Marine Biology</i> , 2018, 165, 1.	1.5	7

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91	Movements and habitat use of loons for assessment of conservation buffer zones in the Arctic Coastal Plain of northern Alaska. <i>Global Ecology and Conservation</i> , 2020, 22, e00980.	2.1	7
92	Post-Release Monitoring of a Stranded and Rehabilitated Short-Finned Pilot Whale (<i>Globicephala</i>) Tj ETQq0 0 0 rgBT, JOverlock, 10 Tf 50	0.7	7
93	Evaluation of Satellite Imagery for Monitoring Pacific Walruses at a Large Coastal Haulout. <i>Remote Sensing</i> , 2021, 13, 4266.	4.0	6
94	Migration of Waterfowl in the East Asian Flyway and Spatial Relationship to HPAI H5N1 Outbreaks. <i>Avian Diseases Digest</i> , 2010, 5, e101-e102.	0.0	5
95	Influence of Basin- and Local- Scale Environmental Conditions on Nearshore Production in the Northeast Pacific Ocean. <i>Marine and Coastal Fisheries</i> , 2016, 8, 502-521.	1.4	5
96	Comparative evaluation of ALMAZ, ERS-1, JERS-1, and Landsat-TM for discriminating wet tundra habitats. <i>Polar Record</i> , 1995, 31, 161-168.	0.8	4
97	Movement ecology of five Afrotropical waterfowl species from Malawi, Mali and Nigeria. <i>Ostrich</i> , 2015, 86, 155-168.	1.1	4
98	Non-linear effect of sea ice: Spectacled Eider survival declines at both extremes of the ice spectrum. <i>Ecology and Evolution</i> , 2018, 8, 11808-11818.	1.9	4
99	Long-term variation in polar bear body condition and maternal investment relative to a changing environment. <i>Global Ecology and Conservation</i> , 2021, 32, e01925.	2.1	4
100	Kittlitz's Murrelet Seasonal Distribution and Post-breeding Migration from the Gulf of Alaska to the Arctic Ocean. <i>Arctic</i> , 2022, 74, 482-495.	0.4	2
101	Spatial-temporal trend of seasonally-integrated normalized difference vegetation index as an indicator of changes in Arctic tundra vegetation in the early 1990s. , 0, , .		1
102	Assessing variability and trends in Arctic sea ice distribution using satellite data. , 0, , .		0
103	Assessment of dependence between SAR data focusing parameters and tundra habitat classification. , 0, , .		0
104	Assessment of sea-ice conditions using two-channel active and passive microwave systems1. <i>Polar Geography</i> , 1996, 20, 294-305.	1.9	0
105	Estimating multiyear sea-ice concentration using passive microwave data and MLP neural networks. , 0, , .		0
106	How Is Climate Change Affecting Polar Bears and Giant Pandas?. , 2020, , 303-316.		0