

Donald A Walker

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2194297/publications.pdf>

Version: 2024-02-01

75
papers

10,825
citations

61857

43
h-index

82410

72
g-index

77
all docs

77
docs citations

77
times ranked

10385
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence and Implications of Recent Climate Change in Northern Alaska and Other Arctic Regions. <i>Climatic Change</i> , 2005, 72, 251-298.	1.7	1,219
2	Role of Land-Surface Changes in Arctic Summer Warming. <i>Science</i> , 2005, 310, 657-660.	6.0	1,186
3	The Circumpolar Arctic vegetation map. <i>Journal of Vegetation Science</i> , 2005, 16, 267-282.	1.1	846
4	Pan-Arctic ice-wedge degradation in warming permafrost and its influence on tundra hydrology. <i>Nature Geoscience</i> , 2016, 9, 312-318.	5.4	527
5	Remote sensing of vegetation and land-cover change in Arctic Tundra Ecosystems. <i>Remote Sensing of Environment</i> , 2004, 89, 281-308.	4.6	522
6	Complexity revealed in the greening of the Arctic. <i>Nature Climate Change</i> , 2020, 10, 106-117.	8.1	447
7	Climate change and Arctic ecosystems: 2. Modeling, paleodata-model comparisons, and future projections. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	429
8	Circumpolar Arctic Tundra Vegetation Change Is Linked to Sea Ice Decline. <i>Earth Interactions</i> , 2010, 14, 1-20.	0.7	332
9	High stocks of soil organic carbon in the North American Arctic region. <i>Nature Geoscience</i> , 2008, 1, 615-619.	5.4	306
10	Greening of arctic Alaska, 1981â€“2001. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	289
11	Climate change and Arctic ecosystems: 1. Vegetation changes north of 55Â°N between the last glacial maximum, mid-Holocene, and present. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	261
12	Dynamics of aboveground phytomass of the circumpolar Arctic tundra during the past three decades. <i>Environmental Research Letters</i> , 2012, 7, 015506.	2.2	212
13	Estimating Active-Layer Thickness over a Large Region: Kuparuk River Basin, Alaska, U.S.A.. <i>Arctic and Alpine Research</i> , 1997, 29, 367.	1.3	210
14	sPlot â€“ A new tool for global vegetation analyses. <i>Journal of Vegetation Science</i> , 2019, 30, 161-186.	1.1	185
15	Plant communities of a tussock tundra landscape in the Brooks Range Foothills, Alaska. <i>Journal of Vegetation Science</i> , 1994, 5, 843-866.	1.1	183
16	Climate Change Drives Widespread and Rapid Thermokarst Development in Very Cold Permafrost in the Canadian High Arctic. <i>Geophysical Research Letters</i> , 2019, 46, 6681-6689.	1.5	168
17	Recent Declines in Warming and Vegetation Greening Trends over Pan-Arctic Tundra. <i>Remote Sensing</i> , 2013, 5, 4229-4254.	1.8	167
18	Vegetation-soil-thaw-depth relationships along a low-arctic bioclimate gradient, Alaska: synthesis of information from the ATLAS studies. <i>Permafrost and Periglacial Processes</i> , 2003, 14, 103-123.	1.5	159

#	ARTICLE	IF	CITATIONS
19	Cumulative geocological effects of 62 years of infrastructure and climate change in ice-rich permafrost landscapes, Prudhoe Bay Oilfield, Alaska. <i>Global Change Biology</i> , 2014, 20, 1211-1224.	4.2	154
20	Vegetation greening in the Canadian Arctic related to decadal warming. <i>Journal of Environmental Monitoring</i> , 2009, 11, 2231.	2.1	148
21	Phytomass, LAI, and NDVI in northern Alaska: Relationships to summer warmth, soil pH, plant functional types, and extrapolation to the circumpolar Arctic. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	136
22	Hierarchical subdivision of Arctic tundra based on vegetation response to climate, parent material and topography. <i>Global Change Biology</i> , 2000, 6, 19-34.	4.2	134
23	A new estimate of tundra-biome phytomass from trans-Arctic field data and AVHRR NDVI. <i>Remote Sensing Letters</i> , 2012, 3, 403-411.	0.6	120
24	The impact of lower sea-ice extent on Arctic greenhouse-gas exchange. <i>Nature Climate Change</i> , 2013, 3, 195-202.	8.1	119
25	Frost-boil ecosystems: complex interactions between landforms, soils, vegetation and climate. <i>Permafrost and Periglacial Processes</i> , 2004, 15, 171-188.	1.5	110
26	A raster version of the Circumpolar Arctic Vegetation Map (CAVM). <i>Remote Sensing of Environment</i> , 2019, 232, 111297.	4.6	108
27	The nature of spatial transitions in the Arctic. <i>Journal of Biogeography</i> , 2004, 31, 1917-1933.	1.4	103
28	Cryogenesis and soil formation along a bioclimate gradient in Arctic North America. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	101
29	Environment, vegetation and greenness (NDVI) along the North America and Eurasia Arctic transects. <i>Environmental Research Letters</i> , 2012, 7, 015504.	2.2	101
30	Arctic patterned-ground ecosystems: A synthesis of field studies and models along a North American Arctic Transect. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	96
31	Distribution and drivers of ectomycorrhizal fungal communities across the North American Arctic. <i>Ecosphere</i> , 2012, 3, 1-25.	1.0	84
32	Changes in timing of seasonal peak photosynthetic activity in northern ecosystems. <i>Global Change Biology</i> , 2019, 25, 2382-2395.	4.2	83
33	Implications of Arctic Sea Ice Decline for the Earth System. <i>Annual Review of Environment and Resources</i> , 2014, 39, 57-89.	5.6	82
34	Degradation and stabilization of ice wedges: Implications for assessing risk of thermokarst in northern Alaska. <i>Geomorphology</i> , 2017, 297, 20-42.	1.1	82
35	Spatial heterogeneity of tundra vegetation response to recent temperature changes. <i>Global Change Biology</i> , 2006, 12, 42-55.	4.2	81
36	Patterned-ground facilitates shrub expansion in Low Arctic tundra. <i>Environmental Research Letters</i> , 2013, 8, 015035.	2.2	81

#	ARTICLE	IF	CITATIONS
37	Changing seasonality of panarctic tundra vegetation in relationship to climatic variables. <i>Environmental Research Letters</i> , 2017, 12, 055003.	2.2	81
38	Biotic controls over spectral reflectance of arctic tundra vegetation. <i>International Journal of Remote Sensing</i> , 2005, 26, 2391-2405.	1.3	60
39	Identification of unrecognized tundra fire events on the north slope of Alaska. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2013, 118, 1334-1344.	1.3	58
40	Regional and landscape-scale variability of Landsat-observed vegetation dynamics in northwest Siberian tundra. <i>Environmental Research Letters</i> , 2014, 9, 025004.	2.2	54
41	Controls over intra-seasonal dynamics of AVHRR NDVI for the Arctic tundra in northern Alaska. <i>International Journal of Remote Sensing</i> , 2004, 25, 1547-1564.	1.3	52
42	Vegetation of zonal patternedâ€ground ecosystems along the North America Arctic bioclimate gradient. <i>Applied Vegetation Science</i> , 2011, 14, 440-463.	0.9	51
43	Patterns of Change within a Tundra Landscape: 22-year Landsat NDVI Trends in an Area of the Northern Foothills of the Brooks Range, Alaska. <i>Arctic, Antarctic, and Alpine Research</i> , 2013, 45, 249-260.	0.4	50
44	sPlotOpen â€“ An environmentally balanced, openâ€access, global dataset of vegetation plots. <i>Global Ecology and Biogeography</i> , 2021, 30, 1740-1764.	2.7	49
45	Experimental Alteration of Vegetation on Nonsorted Circles: Effects on Cryogenic Activity and Implications for Climate Change in The Arctic. <i>Arctic, Antarctic, and Alpine Research</i> , 2008, 40, 96-103.	0.4	45
46	The regional species richness and genetic diversity of <sc>Arctic</sc> vegetation reflect both past glaciations and current climate. <i>Global Ecology and Biogeography</i> , 2016, 25, 430-442.	2.7	44
47	A map analysis of patternedâ€ground along a North American Arctic Transect. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	43
48	Phytomass patterns across a temperature gradient of the North American arctic tundra. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	42
49	Consequences of permafrost degradation for Arctic infrastructure â€“ bridging the model gap between regional and engineering scales. <i>Cryosphere</i> , 2021, 15, 2451-2471.	1.5	42
50	Circumpolar Arctic Vegetation Classification. <i>Phytocoenologia</i> , 2018, 48, 181-201.	1.2	40
51	Spatial Heterogeneity of the Temporal Dynamics of Arctic Tundra Vegetation. <i>Geophysical Research Letters</i> , 2018, 45, 9206-9215.	1.5	40
52	The n-factor of nonsorted circles along a climate gradient in Arctic Alaska. <i>Permafrost and Periglacial Processes</i> , 2006, 17, 279-289.	1.5	39
53	Soils and frost boil ecosystems across the North American Arctic Transect. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	39
54	Spatial and Temporal Heterogeneity of Vegetation Properties among Four Tundra Plant Communities at Ivotuk, Alaska, U.S.A. <i>Arctic, Antarctic, and Alpine Research</i> , 2005, 37, 25-33.	0.4	38

#	ARTICLE	IF	CITATIONS
55	Spatial characteristics of AVHRR-NDVI along latitudinal transects in northern Alaska. <i>Journal of Vegetation Science</i> , 2002, 13, 315-326.	1.1	36
56	Climate Drivers Linked to Changing Seasonality of Alaska Coastal Tundra Vegetation Productivity. <i>Earth Interactions</i> , 2015, 19, 1-29.	0.7	34
57	The Arctic. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S239-S286.	1.7	29
58	Modeling biogeophysical interactions in nonsorted circles in the Low Arctic. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	28
59	Soil Acidity and Exchange Properties of Cryogenic Soils in Arctic Alaska. <i>Soil Science and Plant Nutrition</i> , 2005, 51, 649-653.	0.8	26
60	Simulating nonsorted circle development in arctic tundra ecosystems. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	25
61	Regional Patterns and Asynchronous Onset of Ice-Wedge Degradation since the Mid-20th Century in Arctic Alaska. <i>Remote Sensing</i> , 2018, 10, 1312.	1.8	25
62	The Arctic. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, S263-S316.	1.7	23
63	The Circumpolar Arctic vegetation map. , 2005, 16, 267.		23
64	Contrasting Soil Thermal Regimes in the Forest-Tundra Transition Near Nadym, West Siberia, Russia. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 108-118.	1.5	15
65	Landscape impacts of 3D seismic surveys in the Arctic National Wildlife Refuge, Alaska. <i>Ecological Applications</i> , 2020, 30, e02143.	1.8	15
66	Soils Associated with Biotic Activity on Frost Boils in Arctic Alaska. <i>Soil Science Society of America Journal</i> , 2012, 76, 2265-2277.	1.2	14
67	Climate drivers of Arctic tundra variability and change using an indicators framework. <i>Environmental Research Letters</i> , 2021, 16, 055019.	2.2	14
68	Introduction to special section on Biocomplexity of Arctic Tundra Ecosystems. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	10
69	Soil Nitrogen Transformations Associated with Small Patterned Ground Features along a North American Arctic Transect. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 196-206.	1.5	8
70	Spatial characteristics of AVHRR-NDVI along latitudinal transects in northern Alaska. , 2002, 13, 315.		8
71	Cumulative impacts of a gravel road and climate change in an ice-wedge-polygon landscape, Prudhoe Bay, Alaska. <i>Arctic Science</i> , 0, , .	0.9	7
72	Vegetation on mesic loamy and sandy soils along a 1700-km maritime Eurasia Arctic Transect. <i>Applied Vegetation Science</i> , 2019, 22, 150-167.	0.9	5

#	ARTICLE	IF	CITATIONS
73	Spatial patterns of arctic tundra vegetation properties on different soils along the Eurasia Arctic Transect, and insights for a changing Arctic. <i>Environmental Research Letters</i> , 2021, 16, 014008.	2.2	5
74	Sedimentary and geochemical characteristics of two small permafrost-dominated Arctic river deltas in northern Alaska. <i>Arktos</i> , 2018, 4, 1-18.	1.0	4
75	Commentary. Integrating Research, Education, and Traditional Knowledge in Ecology: a Case Study of Biocomplexity in Arctic Ecosystems. <i>Arctic, Antarctic, and Alpine Research</i> , 2010, 42, 379-384.	0.4	3