

Jennifer W Harden

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

6,818
citations

61687

45
h-index

107981

68
g-index

85
all docs

85
docs citations

85
times ranked

7923
citing authors

#	ARTICLE	IF	CITATIONS
1	Global stocks and capacity of mineral-associated soil organic carbon. <i>Nature Communications</i> , 2022, 13, .	5.8	146
2	Spatial heterogeneity and environmental predictors of permafrost region soil organic carbon stocks. <i>Science Advances</i> , 2021, 7, .	4.7	130
3	The trajectory of soil development and its relationship to soil carbon dynamics. <i>Geoderma</i> , 2021, 403, 115378.	2.3	11
4	An open-source database for the synthesis of soil radiocarbon data: International Soil Radiocarbon Database (ISRaD) version 1.0. <i>Earth System Science Data</i> , 2020, 12, 61-76.	3.7	48
5	Soils can help mitigate CO ₂ emissions, despite the challenges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10211-10212.	3.3	20
6	A sequential selective dissolution method to quantify storage and stability of organic carbon associated with Al and Fe hydroxide phases. <i>Geoderma</i> , 2018, 312, 24-35.	2.3	76
7	Networking our science to characterize the state, vulnerabilities, and management opportunities of soil organic matter. <i>Global Change Biology</i> , 2018, 24, e705-e718.	4.2	92
8	Decadal and long-term boreal soil carbon and nitrogen sequestration rates across a variety of ecosystems. <i>Biogeosciences</i> , 2016, 13, 4315-4327.	1.3	7
9	Radiocarbon constraints imply reduced carbon uptake by soils during the 21st century. <i>Science</i> , 2016, 353, 1419-1424.	6.0	149
10	Toward more realistic projections of soil carbon dynamics by Earth system models. <i>Global Biogeochemical Cycles</i> , 2016, 30, 40-56.	1.9	343
11	Incorporating microbial dormancy dynamics into soil decomposition models to improve quantification of soil carbon dynamics of northern temperate forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2596-2611.	1.3	29
12	Long-term controls on soil organic carbon with depth and time: A case study from the Cowlitz River Chronosequence, WA USA. <i>Geoderma</i> , 2015, 247-248, 73-87.	2.3	105
13	Effect of permafrost thaw on CO ₂ and CH ₄ exchange in a western Alaska peatland chronosequence. <i>Environmental Research Letters</i> , 2014, 9, 085004.	2.2	45
14	Cryostratigraphy and Permafrost Evolution in the Lacustrine Lowlands of West-Central Alaska. <i>Permafrost and Periglacial Processes</i> , 2014, 25, 14-34.	1.5	72
15	Controls on methane released through ebullition in peatlands affected by permafrost degradation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 418-431.	1.3	46
16	The response of soil organic carbon of a rich fen peatland in interior Alaska to projected climate change. <i>Global Change Biology</i> , 2013, 19, 604-620.	4.2	43
17	Permafrost and organic layer interactions over a climate gradient in a discontinuous permafrost zone. <i>Environmental Research Letters</i> , 2013, 8, 035028.	2.2	42
18	Controls on ecosystem and root respiration across a permafrost and wetland gradient in interior Alaska. <i>Environmental Research Letters</i> , 2013, 8, 045029.	2.2	30

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19	Field information links permafrost carbon to physical vulnerabilities of thawing. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	265
20	Photodissolution of soil organic matter. <i>Geoderma</i> , 2012, 170, 314-321.	2.3	36
21	Persistence of soil organic matter in eroding versus depositional landform positions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	138
22	Spatiotemporal analysis of black spruce forest soils and implications for the fate of C. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
23	The Effects of Permafrost Thaw on Soil Hydrologic, Thermal, and Carbon Dynamics in an Alaskan Peatland. <i>Ecosystems</i> , 2012, 15, 213-229.	1.6	162
24	The effect of fire and permafrost interactions on soil carbon accumulation in an upland black spruce ecosystem of interior Alaska: implications for post-thaw carbon loss. <i>Global Change Biology</i> , 2011, 17, 1461-1474.	4.2	103
25	Recent acceleration of biomass burning and carbon losses in Alaskan forests and peatlands. <i>Nature Geoscience</i> , 2011, 4, 27-31.	5.4	428
26	Water and heat transport in boreal soils: Implications for soil response to climate change. <i>Science of the Total Environment</i> , 2011, 409, 1836-1842.	3.9	21
27	The carbon budget of the northern cryosphere region. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 231-236.	3.1	61
28	The role of soil drainage class in carbon dioxide exchange and decomposition in boreal black spruce (<i>Picea mariana</i>) forest stands. <i>Canadian Journal of Forest Research</i> , 2010, 40, 2123-2134.	0.8	27
29	Seasonal ice and hydrologic controls on dissolved organic carbon and nitrogen concentrations in a boreal fen. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	43
30	The role of mosses in ecosystem succession and function in Alaska's boreal forest This article is one of a selection of papers from <i>The Dynamics of Change in Alaska's Boreal Forests: Resilience and Vulnerability in Response to Climate Warming</i> . <i>Canadian Journal of Forest Research</i> , 2010, 40, 1237-1264.	0.8	129
31	Interactive Effects of Fire, Soil Climate, and Moss on CO ₂ Fluxes in Black Spruce Ecosystems of Interior Alaska. <i>Ecosystems</i> , 2009, 12, 57-72.	1.6	64
32	Erosion of soil organic carbon: Implications for carbon sequestration. <i>Geophysical Monograph Series</i> , 2009, , 189-202.	0.1	4
33	The Effect of Moisture Content on the Thermal Conductivity of Moss and Organic Soil Horizons From Black Spruce Ecosystems in Interior Alaska. <i>Soil Science</i> , 2009, 174, 646-651.	0.9	143
34	Recovery of Aboveground Plant Biomass and Productivity After Fire in Mesic and Dry Black Spruce Forests of Interior Alaska. <i>Ecosystems</i> , 2008, 11, 209-225.	1.6	120
35	Interactive effects of wildfire and permafrost on microbial communities and soil processes in an Alaskan black spruce forest. <i>Global Change Biology</i> , 2008, 14, 2591-2602.	4.2	69
36	Boreal soil carbon dynamics under a changing climate: A model inversion approach. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	59

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37	Linking soil organic matter dynamics and erosion-induced terrestrial carbon sequestration at different landform positions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	126
38	Soil Erosion: Data Say C Sink. <i>Science</i> , 2008, 320, 178-179.	6.0	58
39	The Significance of the Erosion-induced Terrestrial Carbon Sink. <i>BioScience</i> , 2007, 57, 337-346.	2.2	348
40	Wildfires threaten mercury stocks in northern soils. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	95
41	Geomorphic control of landscape carbon accumulation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	54
42	Modeling physical and biogeochemical controls over carbon accumulation in a boreal forest soil. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	53
43	Stable carbon isotope depth profiles and soil organic carbon dynamics in the lower Mississippi Basin. <i>Geoderma</i> , 2006, 131, 89-109.	2.3	166
44	Effects of wildfire and permafrost on soil organic matter and soil climate in interior Alaska. <i>Global Change Biology</i> , 2006, 12, 2391-2403.	4.2	123
45	Spatial Patterning of Soil Carbon Storage Across Boreal Landscapes. , 2005, , 229-255.		8
46	Comparing electronic probes for volumetric water content of low-density feathermoss. <i>Sensor Review</i> , 2005, 25, 215-221.	1.0	9
47	Chemical weathering rates of a soil chronosequence on granitic alluvium: III. Hydrochemical evolution and contemporary solute fluxes and rates. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1975-1996.	1.6	94
48	Moisture content measurements of moss (<i>Sphagnum</i> spp.) using commercial sensors. <i>Permafrost and Periglacial Processes</i> , 2004, 15, 309-318.	1.5	53
49	Fire dynamics and implications for nitrogen cycling in boreal forests. <i>Journal of Geophysical Research</i> , 2003, 108, WFX 4-1.	3.3	35
50	Isotopic composition of carbon dioxide from a boreal forest fire: Inferring carbon loss from measurements and modeling. <i>Global Biogeochemical Cycles</i> , 2003, 17, 1-1-1-9.	1.9	101
51	Organic carbon and carbon isotopes in modern and 100-year-old-soil archives of the Russian steppe. <i>Global Change Biology</i> , 2002, 8, 941-953.	4.2	121
52	Scientists unearth clues to soil contamination by comparing old and new soil samples. <i>Eos</i> , 2000, 81, 53.	0.1	9
53	Carbon cycling in boreal wetlands: A comparison of three approaches. <i>Journal of Geophysical Research</i> , 1999, 104, 27673-27682.	3.3	58
54	Soil Carbon stocks and their rates of accumulation and loss in a boreal forest landscape. <i>Global Biogeochemical Cycles</i> , 1998, 12, 687-701.	1.9	106

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55	Carbon Cycling in Terrestrial Environments. , 1998, , 577-610.		12
56	Chemical weathering rates of a soil chronosequence on granitic alluvium: I. Quantification of mineralogical and surface area changes and calculation of primary silicate reaction rates. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 2533-2550.	1.6	315
57	Quaternary soils and dust deposition in southern Nevada and California. <i>Bulletin of the Geological Society of America</i> , 1995, 107, 1003-1022.	1.6	159
58	Isotopic Approach to Soil Carbonate Dynamics and Implications for Paleoclimatic Interpretations. <i>Quaternary Research</i> , 1994, 42, 60-71.	1.0	66
59	Dynamics of Soil Carbon During Deglaciation of the Laurentide Ice Sheet. <i>Science</i> , 1992, 258, 1921-1924.	6.0	198
60	Morphology and genesis of carbonate soils on the Kyle Canyon fan, Nevada, U.S.A.. <i>Geoderma</i> , 1992, 52, 303-342.	2.3	75
61	Rates of Soil Development from Four Soil Chronosequences in the Southern Great Basin. <i>Quaternary Research</i> , 1991, 35, 383-399.	1.0	77
62	Soil development on stable landforms and implications for landscape studies. <i>Geomorphology</i> , 1990, 3, 391-398.	1.1	37
63	Holocene and late Pleistocene slip rates on the San Andreas fault in Yucaipa, California, using displaced alluvial-fan deposits and soil chronology. <i>Bulletin of the Geological Society of America</i> , 1989, 101, 1107-1117.	1.6	52
64	Development Rates of Late Quaternary Soils, Silver Lake Playa, California. <i>Soil Science Society of America Journal</i> , 1989, 53, 1127-1140.	1.2	90
65	Genetic interpretations of elemental and chemical differences in a soil chronosequence, California. <i>Geoderma</i> , 1988, 43, 179-193.	2.3	40
66	Distribution of calcium carbonate in desert soils: A model. <i>Geology</i> , 1988, 16, 303.	2.0	65
67	MEASUREMENTS OF WATER PENETRATION AND VOLUME PERCENTAGE WATER-HOLDING CAPACITY FOR UNDISTURBED, COARSE-TEXTURED SOILS IN SOUTHWESTERN CALIFORNIA. <i>Soil Science</i> , 1988, 146, 374-383.	0.9	8
68	A Quantitative Comparison of Soil Development in Four Climatic Regimes. <i>Quaternary Research</i> , 1983, 20, 342-359.	1.0	178
69	A quantitative index of soil development from field descriptions: Examples from a chronosequence in central California. <i>Geoderma</i> , 1982, 28, 1-28.	2.3	440