

# Cathy J Wilson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2344790/publications.pdf>

Version: 2024-02-01

17  
papers

1,046  
citations

840776

11  
h-index

888059

17  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1560  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pan-Arctic ice-wedge degradation in warming permafrost and its influence on tundra hydrology. <i>Nature Geoscience</i> , 2016, 9, 312-318.	12.9	527
2	Integrated surface/subsurface permafrost thermal hydrology: Model formulation and proof-of-concept simulations. <i>Water Resources Research</i> , 2016, 52, 6062-6077.	4.2	102
3	Modeling the role of preferential snow accumulation in through talik development and hillslope groundwater flow in a transitional permafrost landscape. <i>Environmental Research Letters</i> , 2018, 13, 105006.	5.2	90
4	Soil moisture and hydrology projections of the permafrost region – a model intercomparison. <i>Cryosphere</i> , 2020, 14, 445-459.	3.9	85
5	Influences and interactions of inundation, peat, and snow on active layer thickness. <i>Geophysical Research Letters</i> , 2016, 43, 5116-5123.	4.0	49
6	Active layer thickness as a function of soil water content. <i>Environmental Research Letters</i> , 2021, 16, 055028.	5.2	35
7	Large uncertainty in permafrost carbon stocks due to hillslope soil deposits. <i>Geophysical Research Letters</i> , 2017, 44, 6134-6144.	4.0	31
8	Pathways and transformations of dissolved methane and dissolved inorganic carbon in Arctic tundra watersheds: Evidence from analysis of stable isotopes. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1893-1910.	4.9	30
9	Brief communication: Rapid machine-learning-based extraction and measurement of ice wedge polygons in high-resolution digital elevation models. <i>Cryosphere</i> , 2019, 13, 237-245.	3.9	24
10	Isotopic identification of soil and permafrost nitrate sources in an Arctic tundra ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1000-1017.	3.0	22
11	Evapotranspiration across plant types and geomorphological units in polygonal Arctic tundra. <i>Journal of Hydrology</i> , 2017, 553, 816-825.	5.4	15
12	Understanding the relative importance of vertical and horizontal flow in ice-wedge polygons. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1109-1129.	4.9	9
13	Estimation of subsurface porosities and thermal conductivities of polygonal tundra by coupled inversion of electrical resistivity, temperature, and moisture content data. <i>Cryosphere</i> , 2020, 14, 77-91.	3.9	7
14	New insights into the drainage of inundated ice-wedge polygons using fundamental hydrologic principles. <i>Cryosphere</i> , 2021, 15, 4005-4029.	3.9	3
15	High nitrate variability on an Alaskan permafrost hillslope dominated by alder shrubs. <i>Cryosphere</i> , 2022, 16, 1889-1901.	3.9	3
16	Age and chemistry of dissolved organic carbon reveal enhanced leaching of ancient labile carbon at the permafrost thaw zone. <i>Biogeosciences</i> , 2022, 19, 1211-1223.	3.3	2
17	The importance of freeze-thaw cycles for lateral tracer transport in ice-wedge polygons. <i>Cryosphere</i> , 2022, 16, 851-862.	3.9	1