

Henry F Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,402
citations

331670

21
h-index

223800

46
g-index

48
all docs

48
docs citations

48
times ranked

2992
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of agricultural land use on the composition of fluvial dissolved organic matter. <i>Nature Geoscience</i> , 2009, 2, 37-41.	12.9	591
2	Unraveling the role of land use and microbial activity in shaping dissolved organic matter characteristics in stream ecosystems. <i>Limnology and Oceanography</i> , 2010, 55, 1159-1171.	3.1	469
3	Increased mobilization of aged carbon to rivers by human disturbance. <i>Nature Geoscience</i> , 2015, 8, 112-116.	12.9	159
4	Ecosystem and Seasonal Control of Stream Dissolved Organic Carbon Along a Gradient of Land Use. <i>Ecosystems</i> , 2008, 11, 555-568.	3.4	120
5	Hydrologic Drivers and Seasonality of Dissolved Organic Carbon Concentration, Nitrogen Content, Bioavailability, and Export in a Forested New England Stream. <i>Ecosystems</i> , 2013, 16, 604-616.	3.4	100
6	Riverine Export of Aged Carbon Driven by Flow Path Depth and Residence Time. <i>Environmental Science & Technology</i> , 2018, 52, 1028-1035.	10.0	84
7	How humans alter dissolved organic matter composition in freshwater: relevance for the Earth's biogeochemistry. <i>Biogeochemistry</i> , 2021, 154, 323-348.	3.5	75
8	Watershed "chemical cocktails": forming novel elemental combinations in Anthropocene fresh waters. <i>Biogeochemistry</i> , 2018, 141, 281-305.	3.5	62
9	Soil and water management: opportunities to mitigate nutrient losses to surface waters in the Northern Great Plains. <i>Environmental Reviews</i> , 2019, 27, 447-477.	4.5	50
10	Night and day: short-term variation in nitrogen chemistry and nitrous oxide emissions from streams. <i>Freshwater Biology</i> , 2012, 57, 509-525.	2.4	38
11	Before the storm: antecedent conditions as regulators of hydrologic and biogeochemical response to extreme climate events. <i>Biogeochemistry</i> , 2018, 141, 487-501.	3.5	38
12	Nutrient recycling by fish in streams along a gradient of agricultural land use. <i>Global Change Biology</i> , 2011, 17, 130-139.	9.5	36
13	Simulating streamflow and dissolved organic matter export from a forested watershed. <i>Water Resources Research</i> , 2012, 48, .	4.2	36
14	Agricultural Water Quality in Cold Climates: Processes, Drivers, Management Options, and Research Needs. <i>Journal of Environmental Quality</i> , 2019, 48, 792-802.	2.0	36
15	Effects of land use on water column bacterial activity and enzyme stoichiometry in stream ecosystems. <i>Aquatic Sciences</i> , 2012, 74, 483-494.	1.5	33
16	Soil phosphorus spatial variability due to landform, tillage, and input management: A case study of small watersheds in southwestern Manitoba. <i>Geoderma</i> , 2016, 280, 14-21.	5.1	32
17	Impacts of Soil Phosphorus Drawdown on Snowmelt and Rainfall Runoff Water Quality. <i>Journal of Environmental Quality</i> , 2019, 48, 803-812.	2.0	31
18	Phosphorus export dynamics and hydrobiogeochemical controls across gradients of scale, topography and human impact. <i>Hydrological Processes</i> , 2017, 31, 3130-3145.	2.6	30

#	ARTICLE	IF	CITATIONS
19	Increases in humic and bioavailable dissolved organic matter in a forested New England headwater stream with increasing discharge. <i>Marine and Freshwater Research</i> , 2016, 67, 1279.	1.3	26
20	A global database of nitrogen and phosphorus excretion rates of aquatic animals. <i>Ecology</i> , 2017, 98, 1475-1475.	3.2	26
21	Near-surface Soils as a Source of Phosphorus in Snowmelt Runoff from Cropland. <i>Journal of Environmental Quality</i> , 2019, 48, 921-930.	2.0	26
22	Simulating cold-region hydrology in an intensively drained agricultural watershed in Manitoba, Canada, using the Cold Regions Hydrological Model. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3483-3506.	4.9	24
23	Simulation of actual evapotranspiration from agricultural landscapes in the Canadian Prairies. <i>Journal of Hydrology: Regional Studies</i> , 2018, 15, 105-118.	2.4	21
24	Land use controls nutrient excretion by stream invertebrates along a gradient of agriculture. <i>Journal of the North American Benthological Society</i> , 2007, 26, 523-531.	3.1	20
25	Effects of Crop Rotation and Management System on Water-Extractable Organic Matter Concentration, Structure, and Bioavailability in a Chernozemic Agricultural Soil. <i>Journal of Environmental Quality</i> , 2013, 42, 179-190.	2.0	20
26	Landscape Controls on Nutrient Export during Snowmelt and an Extreme Rainfall Runoff Event in Northern Agricultural Watersheds. <i>Journal of Environmental Quality</i> , 2019, 48, 841-849.	2.0	20
27	The prevalence of nonlinearity and detection of ecological breakpoints across a land use gradient in streams. <i>Scientific Reports</i> , 2019, 9, 3878.	3.3	20
28	Contrasting patterns of groundwater evapotranspiration in grass and tree dominated riparian zones of a temperate agricultural catchment. <i>Journal of Hydrology</i> , 2017, 549, 654-666.	5.4	18
29	Predicting Variable Contributing Areas, Hydrological Connectivity, and Solute Transport Pathways for a Canadian Prairie Basin. <i>Water Resources Research</i> , 2020, 56, e2020WR027984.	4.2	18
30	Phosphorus runoff from Canadian agricultural land: A cross-region synthesis of edge-of-field results. <i>Agricultural Water Management</i> , 2021, 255, 107030.	5.6	18
31	Landscape influences on stream fish assemblages across spatial scales in a northern Great Plains ecoregion. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008, 65, 245-257.	1.4	16
32	Changes in runoff chemistry and soil fertility after multiple years of cattle winter bale feeding on annual cropland on the Canadian prairies. <i>Agriculture, Ecosystems and Environment</i> , 2017, 240, 1-13.	5.3	16
33	Groundwater-Driven Wetland-Stream Connectivity in the Prairie Pothole Region: Inferences Based on Electrical Conductivity Data. <i>Wetlands</i> , 2017, 37, 773-785.	1.5	14
34	Seasonality of Phosphorus and Nitrate Retention in Riparian Buffers. <i>Journal of Environmental Quality</i> , 2019, 48, 915-921.	2.0	13
35	Soil nitrous oxide emissions from no-till canola production under variable rate nitrogen fertilizer management. <i>Geoderma</i> , 2021, 385, 114857.	5.1	13
36	Natural Land Cover in Agricultural Catchments Alters Flood Effects on DOM Composition and Decreases Nutrient Levels in Streams. <i>Ecosystems</i> , 2019, 22, 1530-1545.	3.4	12

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37	Hydrological and Seasonal Controls of Phosphorus in Northern Great Plains Agricultural Streams. <i>Journal of Environmental Quality</i> , 2019, 48, 978-987.	2.0	9
38	Concentration–discharge relationships derived from a larger regional dataset as a tool for watershed management. <i>Ecological Applications</i> , 2021, 31, e02447.	3.8	8
39	Response of organic grain and forage crops to struvite application in an alkaline soil. <i>Agronomy Journal</i> , 2022, 114, 795-810.	1.8	8
40	P&FLUX: A phosphorus budget dataset spanning diverse agricultural production systems in the United States and Canada. <i>Journal of Environmental Quality</i> , 2022, 51, 451-461.	2.0	4
41	Long-term weather, streamflow, and water chemistry datasets for hydrological modelling applications at the upper La Salle River watershed in Manitoba, Canada. <i>Geoscience Data Journal</i> , 2019, 6, 41-57.	4.4	2
42	Nitrogen dynamics and nitrogen-to-phosphorus stoichiometry in cold region agricultural streams. <i>Journal of Environmental Quality</i> , 2021, 50, 653-666.	2.0	2
43	Phosphorus runoff from Canadian agricultural land: A dataset for 30 experimental fields. <i>Data in Brief</i> , 2021, 38, 107405.	1.0	2
44	Influence of climate, topography, and soil type on soil extractable phosphorus in croplands of northern glacial-derived landscapes. <i>Journal of Environmental Quality</i> , 2022, 51, 731-744.	2.0	2
45	A parsimonious water budget model for Canadian agricultural conditions. <i>Journal of Hydrology: Regional Studies</i> , 2021, 36, 100846.	2.4	1
46	Channel geomorphology differences between stream reaches with grass- or tree-dominated riparian vegetation in southern Manitoba. <i>Facets</i> , 2019, 4, 336-349.	2.4	1
47	Association Between Subcatchment Land Cover and Ecological Stoichiometry Along a Human Modified Stream Network. <i>Frontiers in Water</i> , 2021, 3, .	2.3	0