Henry F Wilson

List of Publications by Year
in descending order

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	Response of organic grain and forage crops to struvite application in an alkaline soil. Agronomy Journal, 2022, 114, 795-810.	1.8	8
2	Pâ€FLUX: A phosphorus budget dataset spanning diverse agricultural production systems in the United States and Canada. Journal of Environmental Quality, 2022, 51, 451-461.	2.0	4
3	Influence of climate, topography, and soil type on soil extractable phosphorus in croplands of northern glacialâ€derived landscapes. Journal of Environmental Quality, 2022, 51, 731-744.	2.0	2
4	How humans alter dissolved organic matter composition in freshwater: relevance for the Earthâ€™s biogeochemistry. Biogeochemistry, 2021, 154, 323-348.	3.5	75
5	Soil nitrous oxide emissions from no-till canola production under variable rate nitrogen fertilizer management. Geoderma, 2021, 385, 114857.	5.1	13
6	Nitrogen dynamics and nitrogenâ€toâ€phosphorus stoichiometry in cold region agricultural streams. Journal of Environmental Quality, 2021, 50, 653-666.	2.0	2
7	Association Between Subcatchment Land Cover and Ecological Stoichiometry Along a Human Modified Stream Network. Frontiers in Water, 2021, 3, .	2.3	0
8	A parsimonious water budget model for Canadian agricultural conditions. Journal of Hydrology: Regional Studies, 2021, 36, 100846.	2.4	1
9	Concentrationâ€discharge relationships derived from a larger regional dataset as a tool for watershed management. Ecological Applications, 2021, 31, e02447.	3.8	8
10	Phosphorus runoff from Canadian agricultural land: A cross-region synthesis of edge-of-field results. Agricultural Water Management, 2021, 255, 107030.	5.6	18
11	Phosphorus runoff from Canadian agricultural land: A dataset for 30 experimental fields. Data in Brief, 2021, 38, 107405.	1.0	2
12	Predicting Variable Contributing Areas, Hydrological Connectivity, and Solute Transport Pathways for a Canadian Prairie Basin. Water Resources Research, 2020, 56, e2020WR027984.	4.2	18
13	Agricultural Water Quality in Cold Climates: Processes, Drivers, Management Options, and Research Needs. Journal of Environmental Quality, 2019, 48, 792-802.	2.0	36
14	Soil and water management: opportunities to mitigate nutrient losses to surface waters in the Northern Great Plains. Environmental Reviews, 2019, 27, 447-477.	4.5	50
15	Longâ€term weather, streamflow, and water chemistry datasets for hydrological modelling applications at the upper La Salle River watershed in Manitoba, Canada. Geoscience Data Journal, 2019, 6, 41-57.	4.4	2
16	Landscape Controls on Nutrient Export during Snowmelt and an Extreme Rainfall Runoff Event in Northern Agricultural Watersheds. Journal of Environmental Quality, 2019, 48, 841-849.	2.0	20
17	Seasonality of Phosphorus and Nitrate Retention in Riparian Buffers. Journal of Environmental Quality, 2019, 48, 915-921.	2.0	13
18	Natural Land Cover in Agricultural Catchments Alters Flood Effects on DOM Composition and Decreases Nutrient Levels in Streams. Ecosystems, 2019, 22, 1530-1545.	3.4	12

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19	The prevalence of nonlinearity and detection of ecological breakpoints across a land use gradient in streams. Scientific Reports, 2019, 9, 3878.	3.3	20
20	Hydrological and Seasonal Controls of Phosphorus in Northern Great Plains Agricultural Streams. Journal of Environmental Quality, 2019, 48, 978-987.	2.0	9
21	Nearâ€Surface Soils as a Source of Phosphorus in Snowmelt Runoff from Cropland. Journal of Environmental Quality, 2019, 48, 921-930.	2.0	26
22	Impacts of Soil Phosphorus Drawdown on Snowmelt and Rainfall Runoff Water Quality. Journal of Environmental Quality, 2019, 48, 803-812.	2.0	31
23	Channel geomorphology differences between stream reaches with grass- or tree-dominated riparian vegetation in southern Manitoba. Facets, 2019, 4, 336-349.	2.4	1
24	Simulation of actual evapotranspiration from agricultural landscapes in the Canadian Prairies. Journal of Hydrology: Regional Studies, 2018, 15, 105-118.	2.4	21
25	Riverine Export of Aged Carbon Driven by Flow Path Depth and Residence Time. Environmental Science & Technology, 2018, 52, 1028-1035.	10.0	84
26	Watershed â€˜chemical cocktailsâ€™: forming novel elemental combinations in Anthropocene fresh waters. Biogeochemistry, 2018, 141, 281-305.	3.5	62
27	Before the storm: antecedent conditions as regulators of hydrologic and biogeochemical response to extreme climate events. Biogeochemistry, 2018, 141, 487-501.	3.5	38
28	Changes in runoff chemistry and soil fertility after multiple years of cattle winter bale feeding on annual cropland on the Canadian prairies. Agriculture, Ecosystems and Environment, 2017, 240, 1-13.	5.3	16
29	A global database of nitrogen and phosphorus excretion rates of aquatic animals. Ecology, 2017, 98, 1475-1475.	3.2	26
30	Contrasting patterns of groundwater evapotranspiration in grass and tree dominated riparian zones of a temperate agricultural catchment. Journal of Hydrology, 2017, 549, 654-666.	5.4	18
31	Groundwater-Driven Wetland-Stream Connectivity in the Prairie Pothole Region: Inferences Based on Electrical Conductivity Data. Wetlands, 2017, 37, 773-785.	1.5	14
32	Phosphorus export dynamics and hydrobiogeochemical controls across gradients of scale, topography and human impact. Hydrological Processes, 2017, 31, 3130-3145.	2.6	30
33	Simulating cold-region hydrology in an intensively drained agricultural watershed in Manitoba, Canada, using the Cold Regions Hydrological Model. Hydrology and Earth System Sciences, 2017, 21, 3483-3506.	4.9	24
34	Soil phosphorus spatial variability due to landform, tillage, and input management: A case study of small watersheds in southwestern Manitoba. Geoderma, 2016, 280, 14-21.	5.1	32
35	Increases in humic and bioavailable dissolved organic matter in a forested New England headwater stream with increasing discharge. Marine and Freshwater Research, 2016, 67, 1279.	1.3	26
36	Increased mobilization of aged carbon to rivers by human disturbance. Nature Geoscience, 2015, 8, 112-116.	12.9	159

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37	Hydrologic Drivers and Seasonality of Dissolved Organic Carbon Concentration, Nitrogen Content, Bioavailability, and Export in a Forested New England Stream. Ecosystems, 2013, 16, 604-616.	3.4	100
38	Effects of Crop Rotation and Management System on Waterâ€Extractable Organic Matter Concentration, Structure, and Bioavailability in a Chernozemic Agricultural Soil. Journal of Environmental Quality, 2013, 42, 179-190.	2.0	20
39	Simulating streamflow and dissolved organic matter export from a forested watershed. Water Resources Research, 2012, 48, .	4.2	36
40	Effects of land use on water column bacterial activity and enzyme stoichiometry in stream ecosystems. Aquatic Sciences, 2012, 74, 483-494.	1.5	33
41	Night and day: shortâ€term variation in nitrogen chemistry and nitrous oxide emissions from streams. Freshwater Biology, 2012, 57, 509-525.	2.4	38
42	Nutrient recycling by fish in streams along a gradient of agricultural land use. Global Change Biology, 2011, 17, 130-139.	9.5	36
43	Unraveling the role of land use and microbial activity in shaping dissolved organic matter characteristics in stream ecosystems. Limnology and Oceanography, 2010, 55, 1159-1171.	3.1	469
44	Effects of agricultural land use on the composition of fluvial dissolved organic matter. Nature Geoscience, 2009, 2, 37-41.	12.9	591
45	Ecosystem and Seasonal Control of Stream Dissolved Organic Carbon Along a Gradient of Land Use. Ecosystems, 2008, 11, 555-568.	3.4	120
46	Landscape influences on stream fish assemblages across spatial scales in a northern Great Plains ecoregion. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 245-257.	1.4	16
47	Land use controls nutrient excretion by stream invertebrates along a gradient of agriculture. Journal of the North American Benthological Society, 2007, 26, 523-531.	3.1	20