

Stephen D Sebestyen

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

3,201
citations

159585

30
h-index

161849

54
g-index

90
all docs

90
docs citations

90
times ranked

4408
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole-Ecosystem Warming Increases Plant-Available Nitrogen and Phosphorus in an Ombrotrophic Bog. <i>Ecosystems</i> , 2023, 26, 86-113.	3.4	13
2	Warming Stimulates Iron-Mediated Carbon and Nutrient Cycling in Mineral-Poor Peatlands. <i>Ecosystems</i> , 2022, 25, 44-60.	3.4	13
3	Deciphering the shifting role of intrinsic and extrinsic drivers on moss decomposition in peatlands over a 5-year period. <i>Oikos</i> , 2022, 2022, .	2.7	0
4	Role of Ester Sulfate and Organic Disulfide in Mercury Methylation in Peatland Soils. <i>Environmental Science & Technology</i> , 2022, 56, 1433-1444.	10.0	15
5	Controls on decadal, annual, and seasonal concentration-discharge relationships in the Sleepers River Research Watershed, Vermont, northeastern United States. <i>Hydrological Processes</i> , 2022, 36, .	2.6	3
6	Effects of Clearcutting and Residual Biomass Harvesting on Hillslope Mercury Mobilization and Downgradient Mercury Accumulation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	5
7	Sources and biodegradability of dissolved organic matter in two headwater peatland catchments at the Marcell Experimental Forest, northern Minnesota, USA. <i>Hydrological Processes</i> , 2021, 35, e14049.	2.6	9
8	Analyzing Trends in Water Table Elevations at the Marcell Experimental Forest, Minnesota, U.S.A.. <i>American Journal of Undergraduate Research</i> , 2021, 17, 19-32.	0.1	2
9	Hydrological and meteorological data from research catchments at the Marcell Experimental Forest, Minnesota, USA. <i>Hydrological Processes</i> , 2021, 35, e14092.	2.6	18
10	Differential subsurface mobilization of ambient mercury and isotopically enriched mercury tracers in a harvested and residue harvested hardwood forest in northern Minnesota. <i>Biogeochemistry</i> , 2021, 154, 119-138.	3.5	5
11	Nonstationary flood-frequency analysis to assess effects of harvest and cover type conversion on peak flows at the Marcell Experimental Forest, Minnesota, USA. <i>Journal of Hydrology</i> , 2021, 596, 126054.	5.4	5
12	Soil metabolome response to whole-ecosystem warming at the Spruce and Peatland Responses under Changing Environments experiment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	54
13	Nitrogen and phosphorus cycling in an ombrotrophic peatland: a benchmark for assessing change. <i>Plant and Soil</i> , 2021, 466, 649-674.	3.7	15
14	The stable isotopes of natural waters at the Marcell Experimental Forest. <i>Hydrological Processes</i> , 2021, 35, e14336.	2.6	2
15	An Integrative Model for Soil Biogeochemistry and Methane Processes: I. Model Structure and Sensitivity Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2019JG005468.	3.0	11
16	Radiocarbon Analyses Quantify Peat Carbon Losses With Increasing Temperature in a Whole Ecosystem Warming Experiment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006511.	3.0	7
17	Hydrological feedbacks on peatland CH ₄ emission under warming and elevated CO ₂ : A modeling study. <i>Journal of Hydrology</i> , 2021, 603, 127137.	5.4	4
18	Rapid Net Carbon Loss From a Whole-Ecosystem Warmed Peatland. <i>AGU Advances</i> , 2020, 1, e2020AV000163.	5.4	69

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19	Changes in hillslope hydrology in a perched, shallow soil system due to clearcutting and residual biomass removal. <i>Hydrological Processes</i> , 2020, 34, 5354-5369.	2.6	9
20	Climate Sensitivity of Peatland Methane Emissions Mediated by Seasonal Hydrologic Dynamics. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088875.	4.0	21
21	Mercury dynamics in the pore water of peat columns during experimental freezing and thawing. <i>Journal of Environmental Quality</i> , 2020, 49, 404-416.	2.0	3
22	Climatic controls on peatland black spruce growth in relation to water table variation and precipitation. <i>Ecohydrology</i> , 2019, 12, e2137.	2.4	5
23	Variation in peatland porewater chemistry over time and space along a bog to fen gradient. <i>Science of the Total Environment</i> , 2019, 697, 134152.	8.0	18
24	Iron (Oxyhydr)Oxides Serve as Phosphate Traps in Tundra and Boreal Peat Soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 227-246.	3.0	38
25	Further Development of a Specific Conductivity Approach to Measure Groundwater Discharge Area within Lakes. <i>Journal of the American Water Resources Association</i> , 2019, 55, 485-496.	2.4	3
26	Unprocessed Atmospheric Nitrate in Waters of the Northern Forest Region in the U.S. and Canada. <i>Environmental Science & Technology</i> , 2019, 53, 3620-3633.	10.0	34
27	Contemporary Mobilization of Legacy Pb Stores by DOM in a Boreal Peatland. <i>Environmental Science & Technology</i> , 2018, 52, 3375-3383.	10.0	7
28	New Insights on Ecosystem Mercury Cycling Revealed by Stable Isotopes of Mercury in Water Flowing from a Headwater Peatland Catchment. <i>Environmental Science & Technology</i> , 2018, 52, 1854-1861.	10.0	60
29	Stream Runoff and Nitrate Recovery Times After Forest Disturbance in the USA and Japan. <i>Water Resources Research</i> , 2018, 54, 6042-6054.	4.2	14
30	Influence of soil temperature and moisture on the dissolved carbon, nitrogen, and phosphorus in organic matter entering lake ecosystems. <i>Biogeochemistry</i> , 2018, 139, 293-305.	3.5	15
31	Nitrogen and Phosphorus Loads to Temperate Seepage Lakes Associated With Allochthonous Dissolved Organic Carbon Loads. <i>Geophysical Research Letters</i> , 2018, 45, 5481-5490.	4.0	41
32	Biophysical drivers of seasonal variability in <i>Sphagnum</i> gross primary production in a northern temperate bog. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1078-1097.	3.0	22
33	Data-Constrained Projections of Methane Fluxes in a Northern Minnesota Peatland in Response to Elevated CO ₂ and Warming. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2841-2861.	3.0	47
34	Topographic, edaphic, and vegetative controls on plant-available water. <i>Ecohydrology</i> , 2017, 10, e1897.	2.4	19
35	The Influence of Hydrologic Residence Time on Lake Carbon Cycling Dynamics Following Extreme Precipitation Events. <i>Ecosystems</i> , 2017, 20, 1000-1014.	3.4	46
36	Temporal and Spatial Variation in Peatland Carbon Cycling and Implications for Interpreting Responses of an Ecosystem-Scale Warming Experiment. <i>Soil Science Society of America Journal</i> , 2017, 81, 1668-1688.	2.2	34

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37	Stability of peatland carbon to rising temperatures. <i>Nature Communications</i> , 2016, 7, 13723.	12.8	162
38	Dynamic Vertical Profiles of Peat Porewater Chemistry in a Northern Peatland. <i>Wetlands</i> , 2016, 36, 1119-1130.	1.5	38
39	Growth–climate relationships across topographic gradients in the northern Great Lakes. <i>Ecohydrology</i> , 2016, 9, 918-929.	2.4	7
40	Metabolic and physiochemical responses to a whole-lake experimental increase in dissolved organic carbon in a north-temperate lake. <i>Limnology and Oceanography</i> , 2016, 61, 723-734.	3.1	48
41	Comparisons of soil nitrogen mass balances for an ombrotrophic bog and a minerotrophic fen in northern Minnesota. <i>Science of the Total Environment</i> , 2016, 550, 880-892.	8.0	30
42	IRON REDOX CYCLING AND IMPACTS ON PHOSPHORUS SOLUBILITY IN TUNDRA AND BOREAL ECOSYSTEMS. , 2016, , .		0
43	Drivers of atmospheric nitrate processing and export in forested catchments. <i>Water Resources Research</i> , 2015, 51, 1333-1352.	4.2	44
44	Water's Way at Sleepers River watershed – revisiting flow generation in a post-glacial landscape, Vermont USA. <i>Hydrological Processes</i> , 2015, 29, 3447-3459.	2.6	53
45	Representing northern peatland microtopography and hydrology within the Community Land Model. <i>Biogeosciences</i> , 2015, 12, 6463-6477.	3.3	66
46	Invasive Earthworms Deplete Key Soil Inorganic Nutrients (Ca, Mg, K, and P) in a Northern Hardwood Forest. <i>Ecosystems</i> , 2015, 18, 89-102.	3.4	64
47	Impact of Exotic Earthworms on Organic Carbon Sorption on Mineral Surfaces and Soil Carbon Inventories in a Northern Hardwood Forest. <i>Ecosystems</i> , 2015, 18, 16-29.	3.4	24
48	Long-Term Soil Moisture Patterns in a Northern Minnesota Forest. <i>Soil Science Society of America Journal</i> , 2014, 78, S208.	2.2	15
49	Changing forest water yields in response to climate warming: results from long-term experimental watershed sites across North America. <i>Global Change Biology</i> , 2014, 20, 3191-3208.	9.5	147
50	Coupled hydrological and biogeochemical processes controlling variability of nitrogen species in streamflow during autumn in an upland forest. <i>Water Resources Research</i> , 2014, 50, 1569-1591.	4.2	56
51	Gaseous mercury fluxes from forest soils in response to forest harvesting intensity: A field manipulation experiment. <i>Science of the Total Environment</i> , 2014, 496, 678-687.	8.0	53
52	Ecoenzymatic stoichiometry and microbial processing of organic matter in northern bogs and fens reveals a common P-limitation between peatland types. <i>Biogeochemistry</i> , 2014, 120, 203-224.	3.5	129
53	Merging perspectives in the catchment sciences: the US-Japan Joint Seminar on catchment hydrology and forest biogeochemistry. <i>Hydrological Processes</i> , 2014, 28, 2878-2880.	2.6	1
54	Invertebrate Community Patterns in Seasonal Ponds in Minnesota, USA: Response to Hydrologic and Environmental Variability. <i>Wetlands</i> , 2013, 33, 245-256.	1.5	21

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55	Trends in stream nitrogen concentrations for forested reference catchments across the USA. <i>Environmental Research Letters</i> , 2013, 8, 014039.	5.2	54
56	Ecosystem Processes and Human Influences Regulate Streamflow Response to Climate Change at Long-Term Ecological Research Sites. <i>BioScience</i> , 2012, 62, 390-404.	4.9	149
57	Uncertainty in Peat Volume and Soil Carbon Estimated Using Ground-Penetrating Radar and Probing. <i>Soil Science Society of America Journal</i> , 2012, 76, 1911-1918.	2.2	63
58	Taking the pulse of snowmelt: in situ sensors reveal seasonal, event and diurnal patterns of nitrate and dissolved organic matter variability in an upland forest stream. <i>Biogeochemistry</i> , 2012, 108, 183-198.	3.5	226
59	Carbon-mineral interactions along an earthworm invasion gradient at a Sugar Maple Forest in Northern Minnesota. <i>Applied Geochemistry</i> , 2011, 26, S85-S88.	3.0	9
60	Elemental and mineralogical changes in soils due to bioturbation along an earthworm invasion chronosequence in Northern Minnesota. <i>Applied Geochemistry</i> , 2011, 26, S127-S131.	3.0	19
61	Element Cycling in Upland/Peatland Watersheds. , 2011, , 237-266.		2
62	Long-Term Monitoring Sites and Trends at the Marcell Experimental Forest. , 2011, , 39-96.		14
63	Hot Spots and Hot Moments in Riparian Zones: Potential for Improved Water Quality Management. <i>Journal of the American Water Resources Association</i> , 2010, 46, 278-298.	2.4	398
64	Responses of stream nitrate and DOC loadings to hydrological forcing and climate change in an upland forest of the northeastern United States. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	56
65	Carbon isotope fractionation of dissolved inorganic carbon (DIC) due to outgassing of carbon dioxide from a headwater stream. <i>Hydrological Processes</i> , 2008, 22, 2410-2423.	2.6	214
66	Sources, transformations, and hydrological processes that control stream nitrate and dissolved organic matter concentrations during snowmelt in an upland forest. <i>Water Resources Research</i> , 2008, 44, .	4.2	155
67	Acidic Groundwater Discharge and in Situ Egg Survival in Redds of Lake-Spawning Brook Trout. <i>Transactions of the American Fisheries Society</i> , 2005, 134, 1193-1201.	1.4	8
68	Seepage patterns, pore water, and aquatic plants: hydrological and biogeochemical relationships in lakes. <i>Biogeochemistry</i> , 2004, 68, 383-409.	3.5	33
69	Tracing sources of nitrate in snowmelt runoff using a high-resolution isotopic technique. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	93
70	Dynamic temporal patterns of nearshore seepage flux in a headwater Adirondack lake. <i>Journal of Hydrology</i> , 2001, 247, 137-150.	5.4	36
71	Hydrology and biogeochemistry datasets from Sleepers River Research Watershed, Danville, Vermont, USA. <i>Hydrological Processes</i> , 0, , .	2.6	3