

# Todd M Scanlon

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,900  
citations

186265

28  
h-index

175258

52  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3916  
citing authors

#	ARTICLE	IF	CITATIONS
1	The impacts of stream acidification on fish assemblages: Assessing three decades of recovery in Shenandoah National Park. <i>Global Ecology and Conservation</i> , 2021, 26, e01386.	2.1	3
2	Shenandoah Watershed <sc>Studyâ€œVirginia</sc> Trout Stream Sensitivity Study (<sc>SWASâ€œVTSS</sc>): Stream water quality and hydrologic monitoring data for <sc>midâ€œAppalachian</sc> headwater streams. <i>Hydrological Processes</i> , 2021, 35, e14164.	2.6	1
3	Observed changes in chronic and episodic acidification in Virginia mountain streams in response to the Clean Air Act and amendments. <i>Atmospheric Environment</i> , 2021, 252, 118279.	4.1	5
4	Comparison of northeastern and southeastern U.S. watershed response to the declines in atmospheric sulfur deposition. <i>Atmospheric Environment</i> , 2021, 253, 118365.	4.1	4
5	High Heterogeneity in Canopy Temperature Among Coâ€œoccurring Tree Species in a Temperate Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005892.	3.0	16
6	Assessing Temperate Forest Growth and Climate Sensitivity in Response to a Longâ€œTerm Wholeâ€œWatershed Acidification Experiment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005560.	3.0	5
7	Mercury Accumulation in Tree Rings: Observed Trends in Quantity and Isotopic Composition in Shenandoah National Park, Virginia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005445.	3.0	17
8	Intensified vegetation water use under acid deposition. <i>Science Advances</i> , 2019, 5, eaav5168.	10.3	26
9	Correlation-based flux partitioning of water vapor and carbon dioxide fluxes: Method simplification and estimation of canopy water use efficiency. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107732.	4.8	20
10	Kalahari Wildfires Drive Continental Post-Fire Brightening in Sub-Saharan Africa. <i>Remote Sensing</i> , 2019, 11, 1090.	4.0	8
11	Source partitioning of H&lt;sub&gt;2&lt;/sub&gt;O and CO&lt;sub&gt;2&lt;/sub&gt; fluxes based on high-frequency eddy covariance data: a comparison between study sites. <i>Biogeosciences</i> , 2019, 16, 1111-1132.	3.3	17
12	Climate seasonality as an essential predictor of global fire activity. <i>Global Ecology and Biogeography</i> , 2019, 28, 198-210.	5.8	14
13	Stream geochemical response to reductions in acid deposition in headwater streams: Chronic versus episodic acidification recovery. <i>Hydrological Processes</i> , 2019, 33, 512-526.	2.6	12
14	Sensitivity analysis of a source partitioning method for H2O and CO2 fluxes based on high frequency eddy covariance data: Findings from field data and large eddy simulations. <i>Agricultural and Forest Meteorology</i> , 2019, 265, 152-170.	4.8	13
15	Plant acclimation to long-term high nitrogen deposition in an N-rich tropical forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5187-5192.	7.1	164
16	Climate Change to Offset Improvements in Watershed Acidâ€œBase Status Provided by Clean Air Act and Amendments: A Model Application in Shenandoah National Park, Virginia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2863-2877.	3.0	7
17	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
18	Partitioning Eddy Covariance Water Flux Components Using Physiological and Micrometeorological Approaches. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3353-3370.	3.0	50

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19	CO <sub>2</sub> and H <sub>2</sub> O flux partitioning in a Mediterranean cropping system. <i>Agricultural and Forest Meteorology</i> , 2018, 260-261, 118-130.	4.8	24
20	Albedo changes after fire as an explanation of fire-induced rainfall suppression. <i>Geophysical Research Letters</i> , 2017, 44, 3916-3923.	4.0	15
21	Emerging investigator series: the effect of wildfire on streamwater mercury and organic carbon in a forested watershed in the southeastern United States. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 1505-1517.	3.5	14
22	Association of dissolved mercury with dissolved organic carbon in U.S. rivers and streams: The role of watershed soil organic carbon. <i>Water Resources Research</i> , 2016, 52, 3040-3051.	4.2	26
23	On the correlation of water vapor and CO <sub>2</sub> : Application to flux partitioning of evapotranspiration. <i>Water Resources Research</i> , 2016, 52, 9452-9469.	4.2	20
24	Suppression of rainfall by fires in African drylands. <i>Geophysical Research Letters</i> , 2016, 43, 8527-8533.	4.0	17
25	Comparing methods for partitioning a decade of carbon dioxide and water vapor fluxes in a temperate forest. <i>Agricultural and Forest Meteorology</i> , 2016, 226-227, 229-245.	4.8	56
26	Examining the linkage between shrub encroachment and recent greening in water-limited southern Africa. <i>Ecosphere</i> , 2015, 6, 1-16.	2.2	28
27	<sup>2</sup> H isotopic flux partitioning of evapotranspiration over a grass field following a water pulse and subsequent dry down. <i>Water Resources Research</i> , 2014, 50, 1410-1432.	4.2	96
28	Decreased Atmospheric Sulfur Deposition across the Southeastern U.S.: When Will Watersheds Release Stored Sulfate?. <i>Environmental Science &amp; Technology</i> , 2014, 48, 10071-10078.	10.0	53
29	Seasonal contribution of dewfall to mercury deposition determined using a micrometeorological technique and dew chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 284-292.	3.3	5
30	Particulate and dissolved mercury export in streamwater within three mid-Appalachian forested watersheds in the US. <i>Journal of Hydrology</i> , 2013, 501, 92-100.	5.4	12
31	Topographical Influences on the Spatial Distribution of Soil Mercury at the Catchment Scale. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	11
32	Roles of sulfate adsorption and base cation supply in controlling the chemical response of streams of western Virginia to reduced acid deposition. <i>Biogeochemistry</i> , 2013, 116, 119-130.	3.5	18
33	Partitioning Evapotranspiration Using an Eddy Covariance-Based Technique: Improved Assessment of Soil Moisture and Land-Atmosphere Exchange Dynamics. <i>Vadose Zone Journal</i> , 2012, 11, vzt2012.0025.	2.2	56
34	More trees less loss: Nitrogen leaching losses decrease with increasing biomass in coffee agroforests. <i>Agriculture, Ecosystems and Environment</i> , 2012, 161, 137-144.	5.3	59
35	Controls on stream water dissolved mercury in three mid-Appalachian forested headwater catchments. <i>Water Resources Research</i> , 2011, 47, .	4.2	33
36	Streamwater Particulate Mercury and Suspended Sediment Dynamics in a Forested Headwater Catchment. <i>Water, Air, and Soil Pollution</i> , 2011, 220, 23-36.	2.4	20

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37	On the importance of accurate depiction of infiltration processes on modelled soil moisture and vegetation water stress. <i>Ecohydrology</i> , 2010, 3, 155-165.	2.4	25
38	Seasonal variability in gaseous mercury fluxes measured in a high-elevation meadow. <i>Atmospheric Environment</i> , 2010, 44, 2176-2185.	4.1	64
39	Terrestrial and in-stream influences on the spatial variability of nitrate in a forested headwater catchment. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	12
40	Partitioning carbon dioxide and water vapor fluxes using correlation analysis. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 89-99.	4.8	116
41	Evaluation of automated streamwater sampling during storm events for total mercury analysis. <i>Journal of Environmental Monitoring</i> , 2010, 12, 1833.	2.1	7
42	Nitrate variability in hydrological flow paths for three mid-Appalachian forested watersheds following a large-scale defoliation. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	16
43	Ecohydrological optimization of pattern and processes in water-limited ecosystems: A trade-off-based hypothesis. <i>Water Resources Research</i> , 2009, 45, .	4.2	71
44	On the correlation structure of water vapor and carbon dioxide in the atmospheric surface layer: A basis for flux partitioning. <i>Water Resources Research</i> , 2008, 44, .	4.2	74
45	Declines in dissolved silica concentrations in western Virginia streams (1988-2003): Gypsy moth defoliation stimulates diatoms?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	17
46	On soil moisture-vegetation feedbacks and their possible effects on the dynamics of dryland ecosystems. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	202
47	Positive feedbacks promote power-law clustering of Kalahari vegetation. <i>Nature</i> , 2007, 449, 209-212.	27.8	337
48	Influence of surface heterogeneity on scalar dissimilarity in the roughness sublayer. <i>Boundary-Layer Meteorology</i> , 2007, 122, 149-165.	2.3	47
49	SOIL MOISTURE CONTROLS ON WATER VAPOR AND CARBON FLUXES IN SEMI-ARID REGIONS. , 2006, , 67-83.		1
50	Model determination of non-point source phosphorus transport pathways in a fertilized grassland catchment. <i>Hydrological Processes</i> , 2005, 19, 2801-2814.	2.6	16
51	Dynamic response of grass cover to rainfall variability: implications for the function and persistence of savanna ecosystems. <i>Advances in Water Resources</i> , 2005, 28, 291-302.	3.8	101
52	Canopy scale measurements of CO <sub>2</sub> and water vapor exchange along a precipitation gradient in southern Africa. <i>Global Change Biology</i> , 2004, 10, 329-341.	9.5	89
53	Feasible optimality of vegetation patterns in river basins. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	59
54	Managed grasslands: A greenhouse gas sink or source?. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	57

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55	A nested catchment approach for defining the hydrological controls on non-point phosphorus transport. <i>Journal of Hydrology</i> , 2004, 291, 218-231.	5.4	44
56	Inferred controls on tree/grass composition in a savanna ecosystem: Combining 16-year normalized difference vegetation index data with a dynamic soil moisture model. <i>Water Resources Research</i> , 2003, 39, .	4.2	36
57	Ecosystem-scale measurements of nitrous oxide fluxes for an intensely grazed, fertilized grassland. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	53
58	Water Availability and the Spatial Complexity of CO <sub>2</sub> , Water, and Energy Fluxes over a Heterogeneous Sparse Canopy. <i>Journal of Hydrometeorology</i> , 2003, 4, 798-809.	1.9	15
59	Determining land surface fractional cover from NDVI and rainfall time series for a savanna ecosystem. <i>Remote Sensing of Environment</i> , 2002, 82, 376-388.	11.0	147
60	Turbulent transport of carbon dioxide and water vapor within a vegetation canopy during unstable conditions: Identification of episodes using wavelet analysis. <i>Journal of Geophysical Research</i> , 2001, 106, 7251-7262.	3.3	44
61	Modeling transport of dissolved silica in a forested headwater catchment: Implications for defining the hydrochemical response of observed flow pathways. <i>Water Resources Research</i> , 2001, 37, 1071-1082.	4.2	83
62	Large-eddy simulation over heterogeneous terrain with remotely sensed land surface conditions. <i>Water Resources Research</i> , 2001, 37, 1939-1953.	4.2	63
63	Modelling transport of dissolved silica in a forested headwater catchment: the effect of hydrological and chemical time scales on hysteresis in the concentration-discharge relationship. <i>Hydrological Processes</i> , 2001, 15, 2029-2038.	2.6	80
64	Shallow subsurface storm flow in a forested headwater catchment: Observations and modeling using a modified TOPMODEL. <i>Water Resources Research</i> , 2000, 36, 2575-2586.	4.2	65