

# James B Shanley

## List of Publications by Year in descending order

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101  
papers

5,010  
citations

101543

36  
h-index

98798

67  
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106  
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106  
docs citations

106  
times ranked

5160  
citing authors

#	ARTICLE	IF	CITATIONS
1	Streams as Mirrors: Reading Subsurface Water Chemistry From Stream Chemistry. <i>Water Resources Research</i> , 2022, 58, e2021WR029931.	4.2	41
2	Controls on decadal, annual, and seasonal concentration–discharge relationships in the <sc>Sleepers River Research Watershed</sc>, <sc>Vermont, northeastern United States</sc>. <i>Hydrological Processes</i> , 2022, 36, .	2.6	3
3	A systematic increase in the slope of the concentration discharge relation for dissolved organic carbon in a forested catchment in Vermont, USA. <i>Science of the Total Environment</i> , 2022, 844, 156954.	8.0	3
4	Luquillo Experimental Forest: Catchment science in the montane tropics. <i>Hydrological Processes</i> , 2021, 35, e14146.	2.6	12
5	The evolving perceptual model of streamflow generation at the Panola Mountain Research Watershed. <i>Hydrological Processes</i> , 2021, 35, e14127.	2.6	12
6	Mercury cycling during acid rain recovery at the forested LesnÁ-potok catchment, Czech Republic. <i>Hydrological Processes</i> , 2021, 35, e14255.	2.6	5
7	Event Scale Relationships of DOC and TDN Fluxes in Throughfall and Stemflow Diverge From Stream Exports in a Forested Catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006281.	3.0	9
8	Distribution and pools of mercury in forest soils near recent and historical mercury emission sources in the central Czech Republic. <i>Journal of Geochemical Exploration</i> , 2021, 226, 106782.	3.2	5
9	Evaluating Streamwater Dissolved Organic Carbon Dynamics in Context of Variable Flowpath Contributions With a Tracer–Based Mixing Model. <i>Water Resources Research</i> , 2021, 57, e2021WR030529.	4.2	8
10	Hydrology on high: Assessing the effect of ski resort expansion and changing climate at the Mount Mansfield paired–catchment study in Vermont, <sc>USA</sc>. <i>Hydrological Processes</i> , 2021, 35, e14378.	2.6	2
11	Climate Variability Drives Watersheds Along a Transporter–Transformer Continuum. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094050.	4.0	10
12	Resolving a paradox–high mercury deposition, but low bioaccumulation in northeastern Puerto Rico. <i>Ecotoxicology</i> , 2020, 29, 1207-1220.	2.4	8
13	Recent advances in understanding and measurement of mercury in the environment: Terrestrial Hg cycling. <i>Science of the Total Environment</i> , 2020, 721, 137647.	8.0	91
14	Preface for Jake Peters' special issue. <i>Hydrological Processes</i> , 2020, 34, 1680-1681.	2.6	0
15	Influence of land use and hydrologic variability on seasonal dissolved organic carbon and nitrate export: insights from a multi-year regional analysis for the northeastern USA. <i>Biogeochemistry</i> , 2019, 146, 31-49.	3.5	26
16	Hysteretic Response of Solutes and Turbidity at the Event Scale Across Forested Tropical Montane Watersheds. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	30
17	Decreasing litterfall mercury deposition in central European coniferous forests and effects of bark beetle infestation. <i>Science of the Total Environment</i> , 2019, 682, 213-225.	8.0	24
18	Shining light on the storm: in-stream optics reveal hysteresis of dissolved organic matter character. <i>Biogeochemistry</i> , 2019, 143, 275-291.	3.5	16

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19	Unprocessed Atmospheric Nitrate in Waters of the Northern Forest Region in the U.S. and Canada. <i>Environmental Science &amp; Technology</i> , 2019, 53, 3620-3633.	10.0	34
20	Molecular Hysteresis: Hydrologically Driven Changes in Riverine Dissolved Organic Matter Chemistry During a Storm Event. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 759-774.	3.0	55
21	Enhancement of primary production during drought in a temperate watershed is greater in larger rivers than headwater streams. <i>Limnology and Oceanography</i> , 2019, 64, 1458-1472.	3.1	34
22	Does Stream Water Composition at Sleepers River in Vermont Reflect Dynamic Changes in Soils During Recovery From Acidification?. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	12
23	Soil Aggregates as a Source of Dissolved Organic Carbon to Streams: An Experimental Study on the Effect of Solution Chemistry on Water Extractable Carbon. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	32
24	Using in situ UV-Visible spectrophotometer sensors to quantify riverine phosphorus partitioning and concentration at a high frequency. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 840-855.	2.0	19
25	Systematic variation in evapotranspiration trends and drivers across the Northeastern United States. <i>Hydrological Processes</i> , 2018, 32, 3547-3560.	2.6	28
26	Larch Tree Rings as a Tool for Reconstructing 20th Century Central European Atmospheric Mercury Trends. <i>Environmental Science &amp; Technology</i> , 2018, 52, 11060-11068.	10.0	36
27	In the path of the Hurricane: impact of Hurricane Irene and Tropical Storm Lee on watershed hydrology and biogeochemistry from North Carolina to Maine, USA. <i>Biogeochemistry</i> , 2018, 141, 351-364.	3.5	26
28	Comparing catchment hydrologic response to a regional storm using specific conductivity sensors. <i>Hydrological Processes</i> , 2017, 31, 1074-1085.	2.6	14
29	The history of mercury pollution near the Spolana chlor-alkali plant (Neratovice, Czech Republic) as recorded by Scots pine tree rings and other bioindicators. <i>Science of the Total Environment</i> , 2017, 586, 1182-1192.	8.0	60
30	Tropical river suspended sediment and solute dynamics in storms during an extreme drought. <i>Water Resources Research</i> , 2017, 53, 3695-3712.	4.2	25
31	Deposition of mercury in forests across a montane elevation gradient: Elevational and seasonal patterns in methylmercury inputs and production. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1922-1939.	3.0	30
32	Clearing the waters: Evaluating the need for site-specific field fluorescence corrections based on turbidity measurements. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 408-416.	2.0	34
33	Modeled ecohydrological responses to climate change at seven small watersheds in the northeastern United States. <i>Global Change Biology</i> , 2017, 23, 840-856.	9.5	30
34	High-frequency dissolved organic carbon and nitrate measurements reveal differences in storm hysteresis and loading in relation to land cover and seasonality. <i>Water Resources Research</i> , 2017, 53, 5345-5363.	4.2	159
35	Approaches to stream solute load estimation for solutes with varying dynamics from five diverse small watersheds. <i>Ecosphere</i> , 2016, 7, e01298.	2.2	42
36	Soil mercury distribution in adjacent coniferous and deciduous stands highly impacted by acid rain in the Ore Mountains, Czech Republic. <i>Applied Geochemistry</i> , 2016, 75, 63-75.	3.0	33

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37	Groundwater Level Trends and Drivers in Two Northern New England Glacial Aquifers. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1012-1030.	2.4	20
38	Regional meteorological drivers and long term trends of winter-spring nitrate dynamics across watersheds in northeastern North America. <i>Biogeochemistry</i> , 2016, 130, 247-265.	3.5	16
39	Enriched Groundwater Seeps in Two Vermont Headwater Catchments are Hotspots of Nitrate Turnover. <i>Wetlands</i> , 2016, 36, 237-249.	1.5	31
40	Flushing of distal hillslopes as an alternative source of stream dissolved organic carbon in a headwater catchment. <i>Water Resources Research</i> , 2015, 51, 8114-8128.	4.2	23
41	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
42	Stable-isotope and solute-chemistry approaches to flow characterization in a forested tropical watershed, Luquillo Mountains, Puerto Rico. <i>Applied Geochemistry</i> , 2015, 63, 484-497.	3.0	26
43	High Mercury Wet Deposition at a “Clean Air” Site in Puerto Rico. <i>Environmental Science &amp; Technology</i> , 2015, 49, 12474-12482.	10.0	26
44	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
45	A new method of snowmelt sampling for water stable isotopes. <i>Hydrological Processes</i> , 2014, 28, 5637-5644.	2.6	28
46	Measuring soil frost depth in forest ecosystems with ground penetrating radar. <i>Agricultural and Forest Meteorology</i> , 2014, 192-193, 121-131.	4.8	8
47	Interactions between lithology and biology drive the long-term response of stream chemistry to major hurricanes in a tropical landscape. <i>Biogeochemistry</i> , 2013, 116, 175-186.	3.5	32
48	Quantity is Nothing without Quality: Automated QA/QC for Streaming Environmental Sensor Data. <i>BioScience</i> , 2013, 63, 574-585.	4.9	91
49	MERGANSER: An Empirical Model To Predict Fish and Loon Mercury in New England Lakes. <i>Environmental Science &amp; Technology</i> , 2012, 46, 4641-4648.	10.0	14
50	Spatial patterns of soil nitrification and nitrate export from forested headwaters in the northeastern United States. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
51	Streamwater chemistry in three contrasting monolithologic Czech catchments. <i>Applied Geochemistry</i> , 2012, 27, 1854-1863.	3.0	46
52	Mercury in the pelagic food web of Lake Champlain. <i>Ecotoxicology</i> , 2012, 21, 705-718.	2.4	7
53	Streamwater fluxes of total mercury and methylmercury into and out of Lake Champlain. <i>Environmental Pollution</i> , 2012, 161, 311-320.	7.5	13
54	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

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55	Mercury Cycling in Terrestrial Watersheds. , 2012, , 119-142.		18
56	Long-term patterns and short-term dynamics of stream solutes and suspended sediment in a rapidly weathering tropical watershed. <i>Water Resources Research</i> , 2011, 47, .	4.2	66
57	Mercury dynamics in relation to dissolved organic carbon concentration and quality during high flow events in three northeastern U.S. streams. <i>Water Resources Research</i> , 2010, 46, .	4.2	105
58	Mercury mobilization and episodic stream acidification during snowmelt: Role of hydrologic flow paths, source areas, and supply of dissolved organic carbon. <i>Water Resources Research</i> , 2010, 46, .	4.2	37
59	Geoecology of a Forest Watershed Underlain by Serpentine in Central Europe. <i>Northeastern Naturalist</i> , 2009, 16, 309-328.	0.3	25
60	Ultraviolet absorbance as a proxy for total dissolved mercury in streams. <i>Environmental Pollution</i> , 2009, 157, 1953-1956.	7.5	82
61	A Cross-Site Comparison of Factors Influencing Soil Nitrification Rates in Northeastern USA Forested Watersheds. <i>Ecosystems</i> , 2009, 12, 158-178.	3.4	37
62	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
63	Fine Root Dynamics and Forest Production Across a Calcium Gradient in Northern Hardwood and Conifer Ecosystems. <i>Ecosystems</i> , 2008, 11, 325-341.	3.4	39
64	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
65	Evaluating sulfur dynamics during storm events for three watersheds in the northeastern USA: a combined hydrological, chemical and isotopic approach. <i>Hydrological Processes</i> , 2008, 22, 4023-4034.	2.6	19
66	Seasonal and event variations in $\delta^{34}\text{S}$ values of stream sulfate in a Vermont forested catchment: Implications for sulfur sources and cycling. <i>Science of the Total Environment</i> , 2008, 404, 262-268.	8.0	12
67	Comparison of total mercury and methylmercury cycling at five sites using the small watershed approach. <i>Environmental Pollution</i> , 2008, 154, 143-154.	7.5	96
68	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
69	Enhancing Water Cycle Measurements for Future Hydrologic Research. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 669-676.	3.3	17
70	Who needs environmental monitoring?. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, 253-260.	4.0	403
71	Hydrology and water quality in two mountain basins of the northeastern US: assessing baseline conditions and effects of ski area development. <i>Hydrological Processes</i> , 2007, 21, 1639-1650.	2.6	22
72	Manganese Biogeochemistry in a Central Czech Republic Catchment. <i>Water, Air, and Soil Pollution</i> , 2007, 186, 149-165.	2.4	31

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73	Mercury and Organic Carbon Dynamics During Runoff Episodes from a Northeastern USA Watershed. <i>Water, Air, and Soil Pollution</i> , 2007, 187, 89-108.	2.4	107
74	Mass Balance Assessment for Mercury in Lake Champlain. <i>Environmental Science &amp; Technology</i> , 2006, 40, 82-89.	10.0	32
75	One-day rate measurements for estimating net nitrification potential in humid forest soils. <i>Forest Ecology and Management</i> , 2006, 230, 91-95.	3.2	11
76	Flow-Specific Trends in River-Water Quality Resulting from the Effects of the Clean Air Act in Three Mesoscale, Forested River Basins in the Northeastern United States Through 2002. <i>Environmental Monitoring and Assessment</i> , 2006, 120, 1-25.	2.7	13
77	Water and solute mass balance of five small, relatively undisturbed watersheds in the U.S.. <i>Science of the Total Environment</i> , 2006, 358, 221-242.	8.0	49
78	Factors Influencing Mercury in Freshwater Surface Sediments of Northeastern North America. <i>Ecotoxicology</i> , 2005, 14, 101-111.	2.4	32
79	Physical Controls on Total and Methylmercury Concentrations in Streams and Lakes of the Northeastern USA. <i>Ecotoxicology</i> , 2005, 14, 125-134.	2.4	73
80	Tracing Sources of Streamwater Sulfate During Snowmelt Using S and O Isotope Ratios of Sulfate and $^{35}\text{S}$ Activity. <i>Biogeochemistry</i> , 2005, 76, 161-185.	3.5	58
81	Rapid regional recovery from sulfate and nitrate pollution in streams of the western Czech Republic – comparison to other recovering areas. <i>Environmental Pollution</i> , 2005, 135, 17-28.	7.5	35
82	A Biogeochemical Comparison of Two Well-Buffered Catchments with Contrasting Histories of Acid Deposition. <i>Water, Air and Soil Pollution</i> , 2004, 4, 325-342.	0.8	42
83	Input-Output Budgets of Inorganic Nitrogen for 24 Forest Watersheds in the Northeastern United States: A Review. <i>Water, Air, and Soil Pollution</i> , 2004, 151, 373-396.	2.4	131
84	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
85	A Biogeochemical Comparison of Two Well-Buffered Catchments with Contrasting Histories of Acid Deposition. , 2004, , 325-342.		2
86	Shallow Water Table Fluctuations in Relation to Soil Penetration Resistance. <i>Ground Water</i> , 2003, 41, 964-972.	1.3	17
87	Mercury on the move during snowmelt in Vermont. <i>Eos</i> , 2002, 83, 45-48.	0.1	62
88	Controls on old and new water contributions to stream flow at some nested catchments in Vermont, USA. <i>Hydrological Processes</i> , 2002, 16, 589-609.	2.6	133
89	Dissolved organic nitrogen budgets for upland, forested ecosystems in New England. <i>Biogeochemistry</i> , 2000, 49, 123-142.	3.5	200
90	Mercury cycling and transport in the Lake Champlain basin. <i>Water Science and Application</i> , 1999, , 277-299.	0.3	5

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91	The effect of frozen soil on snowmelt runoff at Sleepers River, Vermont. Hydrological Processes, 1999, 13, 1843-1857.	2.6	157
92	A hydrometric and geochemical approach to test the transmissivity feedback hypothesis during snowmelt. Journal of Hydrology, 1999, 219, 188-205.	5.4	131
93	Riparian zone flowpath dynamics during snowmelt in a small headwater catchment. Journal of Hydrology, 1999, 222, 75-92.	5.4	129
94	Factors Controlling Mercury Transport in an Upland Forested Catchment. Water, Air, and Soil Pollution, 1998, 105, 427-438.	2.4	97
95	Effects of Ion Exchange on Stream Solute Fluxes in a Basin Receiving Highway Deicing Salts. Journal of Environmental Quality, 1994, 23, 977-986.	2.0	66
96	Variations in aqueous sulfate concentrations at Panola Mountain, Georgia. Journal of Hydrology, 1993, 146, 361-382.	5.4	33
97	SULFATE RETENTION AND RELEASE IN SOILS AT PANOLA MOUNTAIN, GEORGIA. Soil Science, 1992, 153, 499-508.	0.9	30
98	Preliminary observations of streamflow generation during storms in a forested Piedmont watershed using temperature as a tracer. Journal of Contaminant Hydrology, 1988, 3, 349-365.	3.3	51
99	Manganese biogeochemistry in a small Adirondack forested lake watershed. Water Resources Research, 1986, 22, 1647-1656.	4.2	12
100	Hydrology and biogeochemistry datasets from Sleepers River Research Watershed, Danville, Vermont, USA. Hydrological Processes, 0, , .	2.6	3
101	Using <sc>DOM</sc> fluorescence to predict total mercury and methylmercury in forested headwater streams, Sleepers River, Vermont <sc>USA</sc>. Hydrological Processes, 0, , .	2.6	2