

Tim P Covino

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,241
citations

471509

17
h-index

477307

29
g-index

32
all docs

32
docs citations

32
times ranked

1764
citing authors

#	ARTICLE	IF	CITATIONS
1	Connectivity as an emergent property of geomorphic systems. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 4-26.	2.5	233
2	Hydrologic connectivity as a framework for understanding biogeochemical flux through watersheds and along fluvial networks. <i>Geomorphology</i> , 2017, 277, 133-144.	2.6	198
3	Tracer Additions for Spiraling Curve Characterization (TASCC): Quantifying stream nutrient uptake kinetics from ambient to saturation. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 484-498.	2.0	99
4	Stream gains and losses across a mountain-to-valley transition: Impacts on watershed hydrology and stream water chemistry. <i>Water Resources Research</i> , 2007, 43, .	4.2	96
5	The Legacy of a Severe Wildfire on Stream Nitrogen and Carbon in Headwater Catchments. <i>Ecosystems</i> , 2019, 22, 643-657.	3.4	73
6	River channel connectivity shifts metabolite composition and dissolved organic matter chemistry. <i>Nature Communications</i> , 2019, 10, 459.	12.8	62
7	Stream-groundwater exchange and hydrologic turnover at the network scale. <i>Water Resources Research</i> , 2011, 47, .	4.2	58
8	Beaver-mediated lateral hydrologic connectivity, fluvial carbon and nutrient flux, and aquatic ecosystem metabolism. <i>Water Resources Research</i> , 2017, 53, 4606-4623.	4.2	58
9	Redistribution of pyrogenic carbon from hillslopes to stream corridors following a large montane wildfire. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1348-1355.	4.9	51
10	Dissolved nutrient retention dynamics in river networks: A modeling investigation of transient flows and scale effects. <i>Water Resources Research</i> , 2012, 48, .	4.2	45
11	The Case for an Open Water Balance: Reenvisioning Network Design and Data Analysis for a Complex, Uncertain World. <i>Water Resources Research</i> , 2020, 56, e2019WR026699.	4.2	36
12	Lateral inflows, stream-groundwater exchange, and network geometry influence stream water composition. <i>Water Resources Research</i> , 2014, 50, 4603-4623.	4.2	34
13	Measuring and interpreting relationships between nutrient supply, demand, and limitation. <i>Freshwater Science</i> , 2018, 37, 448-455.	1.8	34
14	The importance of and need for rapid hydrologic assessments in Latin America. <i>Hydrological Processes</i> , 2018, 32, 2441-2451.	2.6	23
15	Watershed structural influences on the distributions of stream network water and solute travel times under baseflow conditions. <i>Hydrological Processes</i> , 2016, 30, 2671-2685.	2.6	22
16	Land use/land cover and scale influences on in-stream nitrogen uptake kinetics. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
17	Vulnerable Waters are Essential to Watershed Resilience. <i>Ecosystems</i> , 2023, 26, 1-28.	3.4	21
18	The influence of an in-network lake on the timing, form, and magnitude of downstream dissolved organic carbon and nutrient flux. <i>Water Resources Research</i> , 2016, 52, 8668-8684.	4.2	14

#	ARTICLE	IF	CITATIONS
19	Dissolved Organic Matter Chemistry and Transport Along an Arctic Tundra Hillslope. <i>Global Biogeochemical Cycles</i> , 2019, 33, 47-62.	4.9	12
20	Connectivity of post-fire runoff and sediment from nested hillslopes and watersheds. <i>Hydrological Processes</i> , 2021, 35, .	2.6	11
21	Form-based river restoration decreases wetland hyporheic exchange: Lessons learned from the Upper Colorado River. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 191-203.	2.5	10
22	Aquatic Carbon-Nutrient Dynamics as Emergent Properties of Hydrological, Biogeochemical, and Ecological Interactions: Scientific Advances. <i>Water Resources Research</i> , 2018, 54, 7138-7142.	4.2	7
23	Evaluating Spatial and Temporal Dynamics of River-Floodplain Surface Water Connectivity Using Hydrometric, Geochemical and Microbial Indicators. <i>Water Resources Research</i> , 2022, 58, .	4.2	5
24	Reduced N-Limitation and Increased In-Stream Productivity of Autotrophic Biofilms 5 and 15 Years After Severe Wildfire. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006095.	3.0	4
25	Amount and reactivity of dissolved organic matter export are affected by land cover change from old-growth to second-growth forests in headwater ecosystems. <i>Hydrological Processes</i> , 2021, 35, e14343.	2.6	3
26	Conservative solute transport processes and associated transient storage mechanisms: Comparing streams with contrasting channel morphologies, land use and land cover. <i>Hydrological Processes</i> , 2022, 36, .	2.6	3
27	Evaluating Controls on Nutrient Retention and Export in Wide and Narrow Valley Segments of a Mountain River Corridor. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1817-1826.	3.0	2
28	Sources of variability in springwater chemistry in Fool Creek, a high-elevation catchment of the Rocky Mountains, Colorado, USA. <i>Hydrological Processes</i> , 2021, 35, e14089.	2.6	2
29	The Seasonality of In-Stream Nutrient Concentrations and Uptake in Arctic Headwater Streams in the Northern Foothills of Alaska's Brooks Range. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005949.	3.0	2
30	Geomorphology Imparts Spatial Organization on Hydrological and Biogeochemical Fluxes. , 2022, , 53-67.		2