Jennifer Drummond

List of Publications by Year
in descending order

36 papers	1,193 citations	361413 20 h-index	377865 34 g-index
38 all docs	38 docs citations	38 times ranked	1179 citing authors

#	Article	IF	Citations
1	Microplastic accumulation in riverbed sediment via hyporheic exchange from headwaters to mainstems. Science Advances, 2022, 8, eabi9305.	10.3	68
2	Organizational Principles of Hyporheic Exchange Flow and Biogeochemical Cycling in River Networks Across Scales. Water Resources Research, 2022, 58, .	4.2	26
3	Advancing river corridor science beyond disciplinary boundaries with an inductive approach to catalyse hypothesis generation. Hydrological Processes, 2022, 36, .	2.6	7
4	Modeling Contaminant Microbes in Rivers During Both Baseflow and Stormflow. Geophysical Research Letters, 2022, 49, .	4.0	6
5	Stream Hydrology Controls the Longitudinal Bioreactive Footprint of Urban-Sourced Fine Particles. Environmental Science & Technology, 2022, 56, 9083-9091.	10.0	1
6	Gathering at the top? Environmental controls of microplastic uptake and biomagnification in freshwater food webs. Environmental Pollution, 2021, 268, 115750.	7.5	75
7	Effect of Decreasing Biological Lability on Dissolved Organic Matter Dynamics in Streams. Water Resources Research, 2021, 57, e2020WR027918.	4.2	6
8	The method controls the story - Sampling method impacts on the detection of pore-water nitrogen concentrations in streambeds. Science of the Total Environment, 2020, 709, 136075.	8.0	2
9	Fine particle transport dynamics in response to wood additions in a small agricultural stream. Hydrological Processes, 2020, 34, 4128-4138.	2.6	3
10	Significance of Hyporheic Exchange for Predicting Microplastic Fate in Rivers. Environmental Science and Technology Letters, 2020, 7, 727-732.	8.7	64
11	Wastewater treatment plant effluent inputs induce large biogeochemical changes during low flows in an intermittent stream but small changes in day-night patterns. Science of the Total Environment, 2020, 714, 136733.	8.0	16
12	Is the Hyporheic Zone Relevant beyond the Scientific Community?. Water (Switzerland), 2019, 11, 2230.	2.7	113
13	Exploring Tracer Information and Model Framework Tradeâ€Offs to Improve Estimation of Stream Transient Storage Processes. Water Resources Research, 2019, 55, 3481-3501.	4.2	26
14	Spatial and temporal variation in river corridor exchange across a 5th-order mountain stream network. Hydrology and Earth System Sciences, 2019, 23, 5199-5225.	4.9	23
15	Improving Predictions of Fine Particle Immobilization in Streams. Geophysical Research Letters, 2019, 46, 13853-13861.	4.0	9
16	Solute Transport and Transformation in an Intermittent, Headwater Mountain Stream with Diurnal Discharge Fluctuations. Water (Switzerland), 2019, 11, 2208.	2.7	14
17	Co-located contemporaneous mapping of morphological, hydrological, chemical, and biological conditions in a 5th-order mountain stream network, Oregon, USA. Earth System Science Data, 2019, 11, 1567-1581.	9.9	14
18	Less Fine Particle Retention in a Restored Versus Unrestored Urban Stream: Balance Between Hyporheic Exchange, Resuspension, and Immobilization. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1425-1439.	3.0	17

#	Article	IF	Citations
19	Woody debris is related to reachâ€scale hotspots of lowland stream ecosystem respiration under baseflow conditions. Ecohydrology, 2018, 11, e1952.	2.4	31
20	Cryptosporidium oocyst persistence in agricultural streams â€“a mobile-immobile model framework assessment. Scientific Reports, 2018, 8, 4603.	3.3	7
21	Low flow controls on stream thermal dynamics. Limnologica, 2018, 68, 157-167.	1.5	15
22	Emergent Macrophyte Root Architecture Controls Subsurface Solute Transport. Water Resources Research, 2018, 54, 5958-5972.	4.2	13
23	Tracerâ€based characterization of hyporheic exchange and benthic biolayers in streams. Water Resources Research, 2017, 53, 1575-1594.	4.2	80
24	Benthic biofilm controls on fine particle dynamics in streams. Water Resources Research, 2017, 53, 222-236.	4.2	31
25	FracFit: A robust parameter estimation tool for fractional calculus models. Water Resources Research, 2017, 53, 2559-2567.	4.2	38
26	Impacts of water level on metabolism and transient storage in vegetated lowland rivers: Insights from a mesocosm study. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 628-644.	3.0	22
27	Fine particle retention within stream storage areas at base flow and in response to a storm event. Water Resources Research, 2017, 53, 5690-5705.	4.2	37
28	Linking in-stream nutrient uptake to hydrologic retention in two headwater streams. Freshwater Science, 2016, 35, 1176-1188.	1.8	27
29	Effects of benthic and hyporheic reactive transport on breakthrough curves. Freshwater Science, 2015, 34, 301-315.	1.8	32
30	Microbial Transport, Retention, and Inactivation in Streams: A Combined Experimental and Stochastic Modeling Approach. Environmental Science & Technology, 2015, 49, 7825-7833.	10.0	50
31	Retention and remobilization dynamics of fine particles and microorganisms in pastoral streams. Water Research, 2014, 66, 459-472.	11.3	67
32	Stochastic modeling of fine particulate organic carbon dynamics in rivers. Water Resources Research, 2014, 50, 4341-4356.	4.2	53
33	Sensitivity of stoichiometric ratios in the Mississippi River to hydrologic variability. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1049-1062.	3.0	13
34	Intrastream variability in solute transport: Hydrologic and geomorphic controls on solute retention. Journal of Geophysical Research F: Earth Surface, 2013, 118, 413-422.	2.8	19
35	Effects of solute breakthrough curve tail truncation on residence time estimates: A synthesis of solute tracer injection studies. Journal of Geophysical Research, 2012, 117, .	3.3	69
36	Hydrogeomorphology of the hyporheic zone: Stream solute and fine particle interactions with a dynamic streambed. Journal of Geophysical Research, 2012, 117, .	3.3	99