Antoine Aubeneau

List of Publications by Year in descending order

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27 papers	709 citations	567281 15 h-index	526287 27 g-index
27 all docs	27 docs citations	27 times ranked	784 citing authors

#	Article	IF	Citations
1	Hydrogeomorphology of the hyporheic zone: Stream solute and fine particle interactions with a dynamic streambed. Journal of Geophysical Research, 2012, 117, .	3.3	99
2	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
3	Physical controls and predictability of stream hyporheic flow evaluated with a multiscale model. Water Resources Research, 2012, 48, .	4.2	68
4	Stochastic modeling of fine particulate organic carbon dynamics in rivers. Water Resources Research, 2014, 50, 4341-4356.	4.2	53
5	Substrate size and heterogeneity control anomalous transport in small streams. Geophysical Research Letters, 2014, 41, 8335-8341.	4.0	49
6	Biofilm growth in gravel bed streams controls solute residence time distributions. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1840-1850.	3.0	44
7	Turbulence Links Momentum and Solute Exchange in Coarseâ€Grained Streambeds. Water Resources Research, 2018, 54, 3225-3242.	4.2	36
8	Effects of benthic and hyporheic reactive transport on breakthrough curves. Freshwater Science, 2015, 34, 301-315.	1.8	32
9	Covariation in patterns of turbulenceâ€driven hyporheic flow and denitrification enhances reachâ€scale nitrogen removal. Water Resources Research, 2017, 53, 6927-6944.	4.2	30
10	Fractal patterns in riverbed morphology produce fractal scaling of water storage times. Geophysical Research Letters, 2015, 42, 5309-5315.	4.0	28
11	An Integrated Experimental and Modeling Approach to Predict Sediment Mixing from Benthic Burrowing Behavior. Environmental Science & Technology, 2016, 50, 10047-10054.	10.0	22
12	The Sensitivity of Hyporheic Exchange to Fractal Properties of Riverbeds. Water Resources Research, 2020, 56, e2019WR026560.	4.2	21
13	Modeling Benthic Versus Hyporheic Nutrient Uptake in Unshaded Streams With Varying Substrates. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 367-383.	3.0	19
14	Wetlandscape Fractal Topography. Geophysical Research Letters, 2018, 45, 6983-6991.	4.0	18
15	Stochastic dynamics of wetlandscapes: Ecohydrological implications of shifts in hydro-climatic forcing and landscape configuration. Science of the Total Environment, 2019, 694, 133765.	8.0	17
16	Substrate-specific biofilms control nutrient uptake in experimental streams. Freshwater Science, 2018, 37, 456-471.	1.8	14
17	Wetlandscape hydrologic dynamics driven by shallow groundwater and landscape topography. Hydrological Processes, 2020, 34, 1460-1474.	2.6	14
18	Dynamic spatio-temporal patterns of metapopulation occupancy in patchy habitats. Royal Society Open Science, 2021, 8, 201309.	2.4	11

#	Article	IF	Citations
19	Desiccation of a saline lake as a lock-in phenomenon: A socio-hydrological perspective. Science of the Total Environment, 2022, 811, 152347.	8.0	11
20	Optimum positioning of wastewater treatment plants in a river network: A model-based approach to minimize microbial pollution. Science of the Total Environment, 2019, 691, 1310-1319.	8.0	10
21	Persistence of amphibian metapopulation occupancy in dynamic wetlandscapes. Landscape Ecology, 2022, 37, 695-711.	4.2	9
22	Noise-Driven Return Statistics: Scaling and Truncation in Stochastic Storage Processes. Scientific Reports, 2017, 7, 302.	3.3	7
23	An improved process-based representation of stream solute transport in the soil and water assessment tools. Hydrological Processes, 2020, 34, 2599-2611.	2.6	7
24	A Process-Based Model for Bioturbation-Induced Mixing. Scientific Reports, 2017, 7, 14287.	3.3	6
25	Emergent dispersal networks in dynamic wetlandscapes. Scientific Reports, 2020, 10, 14696.	3.3	6
26	Hyporheic Exchange in Sand Dunes Under a Freely Deforming River Water Surface. Water Resources Research, 2021, 57, e2020WR028817.	4.2	6
27	Hyporheic Exchange Due to Cobbles on Sandy Beds. Water Resources Research, 2022, 58, .	4.2	3