Alice Caruso

List of Publications by Year
in descending order

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20 papers	908 citations	623734 14 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	1094 citing authors

#	Article	IF	Citations
1	A review of nature-based solutions for greywater treatment: Applications, hydraulic design, and environmental benefits. Science of the Total Environment, 2020, 711, 134731.	8.0	168
2	Impact of losing and gaining streamflow conditions on hyporheic exchange fluxes induced by duneâ€shaped bed forms. Water Resources Research, 2014, 50, 1895-1907.	4.2	113
3	Reduction of the hyporheic zone volume due to the streamâ€aquifer interaction. Geophysical Research Letters, 2008, 35, .	4.0	107
4	Factoring stream turbulence into global assessments of nitrogen pollution. Science, 2018, 359, 1266-1269.	12.6	74
5	Quantifying the impact of groundwater discharge on the surfaceâ€“subsurface exchange. Hydrological Processes, 2009, 23, 2108-2116.	2.6	60
6	Biofilmâ€induced bioclogging produces sharp interfaces in hyporheic flow, redox conditions, and microbial community structure. Geophysical Research Letters, 2017, 44, 4917-4925.	4.0	55
7	Understanding process dynamics at aquifer-surface water interfaces: An introduction to the special section on new modeling approaches and novel experimental technologies. Water Resources Research, 2014, 50, 1847-1855.	4.2	52
8	Modeling hyporheic exchange with unsteady stream discharge and bedform dynamics. Water Resources Research, 2013, 49, 4089-4099.	4.2	39
9	Impact of watershed topography on hyporheic exchange. Advances in Water Resources, 2016, 94, 400-411.	3.8	37
10	Ambient groundwater flow diminishes nitrate processing in the hyporheic zone of streams. Water Resources Research, 2017, 53, 3941-3967.	4.2	36
11	First-Order Contaminant Removal in the Hyporheic Zone of Streams: Physical Insights from a Simple Analytical Model. Environmental Science & Technology, 2014, 48, 11369-11378.	10.0	34
12	Interactions Between Suspended Kaolinite Deposition and Hyporheic Exchange Flux Under Losing and Gaining Flow Conditions. Geophysical Research Letters, 2018, 45, 4077-4085.	4.0	34
13	Modeling Influence of Sediment Heterogeneity on Nutrient Cycling in Streambeds. Water Resources Research, 2019, 55, 4082-4095.	4.2	33
14	Biodegradation of labile dissolved organic carbon under losing and gaining streamflow conditions simulated in a laboratory flume. Limnology and Oceanography, 2016, 61, 1839-1852.	3.1	16
15	Evaluation of the influence of filter medium composition on treatment performances in an open-air green wall fed with greywater. Journal of Environmental Management, 2021, 300, 113646.	7.8	14
16	Role of the Hyporheic Zone in Increasing the Resilience of Mountain Streams Facing Intermittency. Water (Switzerland), 2020, 12, 2034.	2.7	9
17	Unifying Advective and Diffusive Descriptions of Bedform Pumping in the Benthic Biolayer of Streams. Water Resources Research, 2020, 56, e2020WR027967.	4.2	9
18	River bedform inception by flow unsteadiness: A modal and nonmodal analysis. Physical Review E, 2016, 93, 053110.	2.1	7

#	Article	IF	Citations
19	A Oneâ€Dimensional Model for Turbulent Mixing in the Benthic Biolayer of Stream and Coastal Sediments. Water Resources Research, 2020, 56, e2019WR026822.	4.2	7
20	Modeling chemical gradients in sediments under losing and gaining flow conditions: The GRADIENT code. Advances in Water Resources, 2018, 112, 72-82.	3.8	4