Bioretention Outflow: Does It Mimic Nonurban Watershed Shallow Interflow?

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#	Paper	IF	Citations
54	Stormwater Monitoring of Innovative Street Retrofits in Urban Wilmington, NC. **2012**,		1
53	Meeting Hydrologic and Water Quality Goals through Targeted Bioretention Design. *Journal of Environmental Engineering, ASCE*, **2012**, 138, 698-707	2	153
52	Effectiveness of Low Impact Development Practices: Literature Review and Suggestions for Future Research. *Water, Air, and Soil Pollution*, **2012**, 223, 4253-4273	2.6	456
51	Hydrologic shortcomings of conventional urban stormwater management and opportunities for reform. *Landscape and Urban Planning*, **2012**, 105, 230-240	7.7	279
50	Source-control stormwater management for mitigating the impacts of urbanisation on baseflow: A review. *Journal of Hydrology*, **2013**, 485, 201-211	6	153
49	Comparing the Hydrologic Performance of a BioretentionCell with Predevelopment Values. *Journal of Irrigation and Drainage Engineering - ASCE*, **2013**, 139, 124-130	1.1	20
48	Defining predevelopment hydrology to mimic predevelopment water quality in stormwater control measures (SCMs). *Ecological Engineering*, **2013**, 57, 40-45	3.9	19
47	Watering our cities: The capacity for Water Sensitive Urban Design to support urban cooling and improve human thermal comfort in the Australian context. *Progress in Physical Geography*, **2013**, 37, 2-28	3.5	214
46	Explicit Equation for Estimating Storm-Water Capture Efficiency of Rain Gardens. *Journal of Hydrologic Engineering - ASCE*, **2013**, 18, 1739-1748	1.8	33
45	Case Study of St. Louis, Missouri: Comparison of Bioretention Performance to the Runoff Component of a Restored Water Balance. *Journal of Environmental Engineering, ASCE*, **2013**, 139, 516-521	2	3
44	A Comparison of Runoff Quality and Quantity from a Urban Commercial Infill Low Impact Development and a Conventional Development. **2013**,		
43	Catchment-Scale Evaluation of the Hydrologic and Water Quality Impacts of Residential Street Retrofits in Wilmington, NC. **2013**,		
42	Modelling the impact of stormwater source control infiltration techniques on catchment baseflow. *Hydrological Processes*, **2014**, 28, 5817-5831	3.3	28
41	Stormwater Capture Efficiency of Bioretention Systems. *Water Resources Management*, **2014**, 28, 149-168	3.7	44
40	Protection of stream ecosystems from urban stormwater runoff: The multiple benefits of an ecohydrological approach. *Progress in Physical Geography*, **2014**, 38, 543-555	3.5	52
39	Performance and Water Table Responses of Retrofit Rain Gardens. *Journal of Hydrologic Engineering - ASCE*, **2014**, 19, 05014002	1.8	12
38	Review and Research Needs of Bioretention Used for the Treatment of Urban Stormwater. *Water (Switzerland)*, **2014**, 6, 1069-1099	3	137

37	An event-based hydrologic simulation model for bioretention systems. *Water Science and Technology*, **2015**, 72, 1524-33	2.2	8
36	Critical Review of Technical Questions Facing Low Impact Development and Green Infrastructure: A Perspective from the Great Plains. *Water Environment Research*, **2015**, 87, 849-62	2.8	69
35	Which baseflow metrics should be used in assessing flow regimes of urban streams?. *Hydrological Processes*, **2015**, 29, 4367-4378	3.3	17
34	Flow-Regime Management at the Urban Land-Parcel Scale: Test of Feasibility. *Journal of Hydrologic Engineering - ASCE*, **2015**, 20, 04015037	1.8	14
33	Soil bioretention protects juvenile salmon and their prey from the toxic impacts of urban stormwater runoff. *Chemosphere*, **2015**, 132, 213-9	8.4	60
32	Retrofitting with innovative stormwater control measures: Hydrologic mitigation of impervious cover in the municipal right-of-way. *Journal of Hydrology*, **2015**, 527, 923-932	6	34
31	Hydrologic Performance of a Transitioned Infiltration Basin Managing Highway Runoff. *Journal of Sustainable Water in the Built Environment*, **2015**, 1, 04015002	2.4	9
30	SUDS, LID, BMPs, WSUD and more The evolution and application of terminology surrounding urban drainage. *Urban Water Journal*, **2015**, 12, 525-542	2.3	793
29	A review of the bioretention system for sustainable storm water management in urban areas. *Materials and Geoenvironment*, **2016**, 63, 227-236	0.3	5
28	Quantifying volume reduction and peak flow mitigation for three bioretention cells in clay soils in northeast Ohio. *Science of the Total Environment*, **2016**, 553, 83-95	10.2	103
27	Seasonal Variability in Stormwater Quality Treatment of Permeable Pavements Situated Over Heavy Clay and in a Cold Climate. *Water, Air, and Soil Pollution*, **2016**, 227, 1	2.6	27
26	Potential of green infrastructure to restore predevelopment water budget of a semi-arid urban catchment. *Journal of Hydrology*, **2016**, 542, 744-755	6	40
25	Principles for urban stormwater management to protect stream ecosystems. *Freshwater Science*, **2016**, 35, 398-411	2	97
24	Improving Evapotranspiration Mechanisms in the U.S. Environmental Protection Agency Storm Water Management Model. *Journal of Hydrologic Engineering - ASCE*, **2016**, 21, 06016007	1.8	18
23	Experimental Investigation on Hydrologic Performance of LID with Rainfall-Watershed-Bioretention System. *Journal of Hydrologic Engineering - ASCE*, **2017**, 22,	1.8	22
22	Performance of Regenerative Stormwater Conveyance on the Removal of Dissolved Pollutants: Field Scale Simulation Study. *Journal of Environmental Engineering, ASCE*, **2018**, 144, 04018039	2	3
21	Assessing Stormwater Nutrient and Heavy Metal Plant Uptake in an Experimental Bioretention Pond. *Land*, **2018**, 7, 150	3.5	9
20	Effect of a Submerged Zone and Carbon Source on Nutrient and Metal Removal for Stormwater by Bioretention Cells. *Water (Switzerland)*, **2018**, 10, 1629	3	28

19	Influence of Critical Bioretention Design Factors and Projected Increases in Precipitation due to Climate Change on Roadside Bioretention Performance. *Journal of Environmental Engineering, ASCE* , **2018**, 144, 04018082	2	10
18	Technical note: Long-term persistence loss of urban streams as a metric for catchment classification. *Hydrology and Earth System Sciences*, **2018**, 22, 3551-3559	5.5	6
17	Water Quality and Hydrologic Performance of a Regenerative Stormwater Conveyance in the Piedmont of North Carolina. *Journal of Environmental Engineering, ASCE*, **2018**, 144, 04018062	2	6
16	Insights from using in-situ ultraviolet-visible spectroscopy to assess nitrogen treatment and subsurface dynamics in a regenerative stormwater conveyance (RSC) system. *Journal of Environmental Management*, **2019**, 252, 109656	7.9	2
15	Can catchment-scale urban stormwater management measures benefit the stream hydraulic environment?. *Journal of Environmental Management*, **2019**, 233, 1-11	7.9	18
14	An assessment of the hydrologic effectiveness of low impact development (LID) practices for managing runoff with different objectives. *Journal of Environmental Management*, **2019**, 231, 504-514	7.9	37
13	Field Assessment of the Hydrologic Mitigation Performance of Three Aging Bioretention Cells. *Journal of Sustainable Water in the Built Environment*, **2020**, 6, 04020017	2.4	4
12	Evaluating a Controlled-Release Fertilizer for Plant Establishment in Floating Elements for Bioretention Ponds. *Agronomy*, **2020**, 10, 199	3.6	1
11	Green Infrastructure: Possible New Approach or Merely New Terminology in Stormwater Management. *Journal of Sustainable Water in the Built Environment*, **2021**, 7, 02520003	2.4	1
10	Factors affecting the hydrological response of substrate material for green roofs and bioretention. *IOP Conference Series: Earth and Environmental Science*, **2021**, 821, 012009	0.3	1
9	Field validation of a physically-based model for bioretention systems. *Journal of Cleaner Production*, **2021**, 312, 127636	10.3	1
8	Prioritizing the soil and filler layers of a bioretention system by considering multiple hydrological effects. *Journal of Hydrology*, **2021**, 603, 127008	6	1
7	Effectiveness of Low Impact Development Practices: Literature Review and Suggestions for Future Research. **2012**, 223, 4253		0
6	Modeling and interpreting hydrological responses of sustainable urban drainage systems with explainable machine learning methods. *Hydrology and Earth System Sciences*, **2021**, 25, 5839-5858	5.5	0
5	A scoping review on Water Sensitive Urban Design aims and achievements. *Urban Water Journal*, 1-15	2.3	1
4	Physical and hydraulic properties of bioretention substrate using hexadecyl trimethyl ammonium bromide (HDTMA) modified zeolite.. *Environmental Technology (United Kingdom)*, **2022**, 1-13	2.6	0
3	Bioretention. **2022**, 343-391		
2	Effects of watershed-scale green infrastructure retrofits on urban stormwater quality: A paired watershed study to quantify nutrient and sediment removal. **2023**, 186, 106835		1

1	Runoff regulation and nitrogen and phosphorus removal performance of a bioretention substrate with HDTMA-modified zeolite. 10,	0