devendra Amatya

List of Publications by Year
in descending order

63 papers	2,017 citations	331259 21 h-index	253896 43 g-index
67 all docs	67 docs citations	67 times ranked	1907 citing authors

#	ARTICLE	IF	CITATIONS
1	A COMPARISON OF SIX POTENTIAL EVAPOTRANSPIRATION METHODS FOR REGIONAL USE IN THE SOUTHEASTERN UNITED STATES. Journal of the American Water Resources Association, 2005, 41, 621-633.	1.0	450
2	Comparison of Methods for Estimating REF-ET. Journal of Irrigation and Drainage Engineering - ASCE, 1995, 121, 427-435.	0.6	180
3	Hydrologic connectivity between geographically isolated wetlands and surface water systems: A review of select modeling methods. Environmental Modelling and Software, 2014, 53, 190-206.	1.9	137
4	Effects of timber management on the hydrology of wetland forests in the southern United States. Forest Ecology and Management, 2001, 143, 227-236.	1.4	103
5	Effects of controlled drainage on the hydrology of drained pine plantations in the North Carolina coastal plain. Journal of Hydrology, 1996, 181, 211-232.	2.3	89
6	Hydrology and Water Budget for a Forested Atlantic Coastal Plain Watershed, South Carolina. Journal of the American Water Resources Association, 2007, 43, 563-575.	1.0	58
7	Effects of Controlled Drainage on Forest Water Quality. Journal of Environmental Quality, 1998, 27, 923-935.	1.0	55
8	Seasonal rainfall–runoff relationships in a lowland forested watershed in the southeastern USA. Hydrological Processes, 2011, 25, 2032-2045.	1.1	52
9	Assessment of storm direct runoff and peak flow rates using improved SCS-CN models for selected forested watersheds in the Southeastern United States. Journal of Hydrology: Regional Studies, 2020, 27, 100645.	1.0	51
10	DRAINMOD-FOREST: Integrated Modeling of Hydrology, Soil Carbon and Nitrogen Dynamics, and Plant Growth for Drained Forests. Journal of Environmental Quality, 2012, 41, 764-782.	1.0	46
11	Effect of Assessment Scale on Spatial and Temporal Variations in CH_4, CO_2, and N_2O Fluxes in a Forested Wetland. Water, Air, and Soil Pollution, 2012, 223, 253-265.	1.1	46
12	EFFECTS OF CONTROLLED DRAINAGE ON STORM EVENT HYDROLOGY IN A LOBLOLLY PINE PLANTATION. Journal of the American Water Resources Association, 2000, 36, 175-190.	1.0	41
13	DEVELOPMENT AND TESTING OF WATERSHED-SCALE MODELS FOR POORLY DRAINED SOILS. Transactions of the American Society of Agricultural Engineers, 2005, 48, 639-652.	0.9	37
14	Evaluating the SWAT Model for a Low-Gradient Forested Watershed in Coastal South Carolina. Transactions of the ASABE, 2011, 54, 2151-2163.	1.1	37
15	Quantifying watershed surface depression storage: determination and application in a hydrologic model. Hydrological Processes, 2013, 27, 2401-2413.	1.1	36
16	Long-Term Hydrology and Water Quality of a Drained Pine Plantation in North Carolina. Transactions of the ASABE, 2011, 54, 2087-2098.	1.1	33
17	Modeling water, carbon, and nitrogen dynamics for two drained pine plantations under intensive management practices. Forest Ecology and Management, 2012, 264, 20-36.	1.4	28
18	Climate Variability and Its Impact on Forest Hydrology on South Carolina Coastal Plain, USA. Atmosphere, 2011, 2, 330-357.	1.0	27

#	Article	IF	Citations
19	Impacts of Fertilization on Water Quality of a Drained Pine Plantation: A Worst Case Scenario. Journal of Environmental Quality, 2010, 39, 293-303.	1.0	24
20	Characterization of Storm Flow Dynamics of Headwater Streams in the South Carolina Lower Coastal Plain[1]. Journal of the American Water Resources Association, 2013, 49, 76-89.	1.0	24
21	DRAINWAT-BASED METHODS FOR ESTIMATING NITROGEN TRANSPORT IN POORLY DRAINED WATERSHEDS. Transactions of the American Society of Agricultural Engineers, 2004, 47, 677-687.	0.9	22
22	Curve Number Derivation for Watersheds Draining Two Headwater Streams in Lower Coastal Plain South Carolina, USA. Journal of the American Water Resources Association, 2013, 49, 1284-1295.	1.0	21
23	Hurricane impacts on a pair of coastal forested watersheds: implications of selective hurricane damage to forest structure and streamflow dynamics. Hydrology and Earth System Sciences, 2014, 18, 1151-1164.	1.9	21
24	Consistency of Hydrologic Relationships of a Paired Watershed Approach. American Journal of Climate Change, 2013, 02, 147-164.	0.5	21
25	WATGIS: A GISÂ—BASED LUMPED PARAMETER WATER QUALITY MODEL. Transactions of the American Society of Agricultural Engineers, 2002, 45, .	0.9	20
26	HYDROLOGY OF A DRAINED FORESTED POCOSIN WATERSHED. Journal of the American Water Resources Association, 1997, 33, 535-546.	1.0	19
27	Effects of Land Use on Soil Properties and Hydrology of Drained Coastal Plain Watersheds. Transactions of the ASABE, 2011, 54, 1357-1365.	1.1	19
28	Effects of Site Preparation for Pine Forest/Switchgrass Intercropping on Water Quality. Journal of Environmental Quality, 2015, 44, 1263-1272.	1.0	18
29	Grass and Forest Potential Evapotranspiration Comparison Using Five Methods in the Atlantic Coastal Plain. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	0.8	18
30	Global sensitivity analysis of DRAINMOD-FOREST, an integrated forest ecosystem model. Hydrological Processes, 2014, 28, 4389-4410.	1.1	17
31	HYDROLOGIC AND WATER-QUALITY RESPONSE OF FORESTED AND AGRICULTURAL LANDS DURING THE 1999 EXTREME WEATHER CONDITIONS IN EASTERN NORTH CAROLINA. Transactions of the American Society of Agricultural Engineers, 2005, 48, 2179-2188.	0.9	16
32	SWAT Model Prediction of Phosphorus Loading in a South Carolina Karst Watershed with a Downstream Embayment. Journal of Environmental Protection, 2013, 04, 75-90.	0.3	15
33	Long-Term Water Table Dynamics of Forested Wetlands: Drivers and their Effects on Wetland Hydrology in The Southeastern Atlantic Coastal Plain. Wetlands, 2020, 40, 65-79.	0.7	13
34	Sensitivity analysis of the DRAINWAT model applied to an agricultural watershed in the lower coastal plain, North Carolina, USA. Water and Environment Journal, 2012, 26, 130-145.	1.0	12
35	Testing DRAINMOD-FOREST for predicting evapotranspiration in a mid-rotation pine plantation. Forest Ecology and Management, 2015, 355, 37-47.	1.4	12
36	Hydrological processes of reference watersheds in experimental forests, USA.. , 2016, , 219-239.		12

#	Article	IF	Citations
37	Managing Forest Water Quantity and Quality under Climate Change. , 2013, , 249-306.		12
38	Hydrologic Effects of Size and Location of Fields Converted from Drained Pine Forest to Agricultural Cropland. Journal of Hydrologic Engineering - ASCE, 2013, 18, 552-566.	0.8	11
39	Application of LiDAR Data for Hydrologic Assessments of Low-Gradient Coastal Watershed Drainage Characteristics. Journal of Geographic Information System, 2013, 05, 175-191.	0.3	11
40	Calibration of paired watersheds: Utility of moving sums in presence of externalities. Hydrological Processes, 2017, 31, 3458-3471.	1.1	10
41	Coastal Forests and Groundwater: Using Case Studies to Understand the Effects of Drivers and Stressors for Resource Management. Sustainability, 2017, 9, 447.	1.6	10
42	Turkey Creekâ€"A Case Study of Ecohydrology and Integrated Watershed Management in the Low-Gradient Atlantic Coastal Plain, USA. Journal of Water Resource and Protection, 2015, 07, 792-814.	0.3	10
43	Comparison of Hydrology of Two Atlantic Coastal Plain Forests. Transactions of the ASABE, 2019, 62, 1509-1529.	1.1	9
44	Estimates of Precipitation IDF Curves and Design Discharges for Road-Crossing Drainage Structures: Case Study in Four Small Forested Watersheds in the Southeastern US. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	0.8	9
45	Application of DRAINMOD-GIS to a Lower Coastal Plain Watershed. Transactions of the ASABE, 2007, 50, 439-447.	1.1	8
46	Estimation of Daily Streamflow of Southeastern Coastal Plain Watersheds by Combining Estimated Magnitude and Sequence. Journal of the American Water Resources Association, 2013, 49, 1150-1166.	1.0	8
47	Streamflow and Nutrients from a Karst Watershed with a Downstream Embayment: Chapel Branch Creek. Journal of Hydrologic Engineering - ASCE, 2014, 19, 428-438.	0.8	8
48	Predicting dissolved organic nitrogen export from a drained loblolly pine plantation. Water Resources Research, 2013, 49, 1952-1967.	1.7	7
49	Water Quality Effects of Switchgrass Intercropping on Pine Forest in Coastal North Carolina. Transactions of the ASABE, 2017, 60, 1607-1620.	1.1	6
50	A Daily Water Table Depth Computing Model for Poorly Drained Soils. Wetlands, 2019, 39, 39-54.	0.7	6
51	Effects of Drainage for Silviculture on Wetland Hydrology. Wetlands, 2020, 40, 47-64.	0.7	6
52	Hydro-meteorologic Assessment of October 2015 Extreme Precipitation Event on Santee Experimental Forest Watersheds, South Carolina. The Journal of South Carolina Water Resources, 2016, , 19-30.	0.7	6
53	Evaluation of Paired Watershed Runoff Relationships since Recovery from a Major Hurricane on a Coastal Forestâ€"A Basis for Examining Effects of Pinus palustris Restoration on Water Yield. Water (Switzerland), 2021, 13, 3121.	1.2	6
54	Effects of cypress knee roughness on flow resistance and discharge estimates of the Turkey Creek watershed. Annals of Warsaw University of Life Sciences, Land Reclamation, 2017, 49, 179-199.	0.2	5

#	Article	IF	Citations
55	Extreme precipitation-based vulnerability assessment of road-crossing drainage structures in forested watersheds using an integrated environmental modeling approach. Environmental Modelling and Software, 2022, 155, 105413.	1.9	5
56	Long-Term Ecohydrologic Monitoring: A Case Study from the Santee Experimental Forest, South Carolina. The Journal of South Carolina Water Resources, 2020, , 46-55.	0.7	4
57	Response of Nutrients and Sediment to Hydrologic Variables in Switchgrass Intercropped Pine Forest Ecosystems on Poorly Drained Soil. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	3
58	Evapotranspiration: Challenges in Measurement and Modeling. Eos, 2014, 95, 256-256.	0.1	2
59	Regional Differences in Stream Water Nitrogen, Phosphorus, and Sediment Responses to Forest Harvesting in the Conterminous USA. Journal of Environmental Quality, 2019, 48, 634-644.	1.0	1
60	Longâ€term <scp>hydroâ€meteorology</scp> and water quality data from lowâ€gradient catchments of varying scales on the Santee experimental Forest, South Carolina. Hydrological Processes, 2022, 36, .	1.1	1
61	Silviculture and Forested Wetlands of the Southeast United States: an Introduction to the Special Feature. Wetlands, 2020, 40, 1-5.	0.7	0
62	Response of Drainage Water Quality to Fertilizer Applications on a Switchgrass Intercropped Coastal Pine Forest. Water (Switzerland), 2020, 12, 1265.	1.2	0
63	Simulating Biomass Production and Water Use of Poplars in a Plantation Using a STELLA-Based Model. Forests, 2022, 13, 547.	0.9	0