Puneet Srivastava

List of Publications by Year
in descending order

74 papers	1,460 citations	361413 20 h-index	377865 34 g-index
74 all docs	74 docs citations	74 times ranked	1616 citing authors

#	Article	IF	Citations
1	A hybrid framework for forecasting monthly reservoir inflow based on machine learning techniques with dynamic climate forecasts, satellite-based data, and climate phenomenon information. Stochastic Environmental Research and Risk Assessment, 2022, 36, 2353-2375.	4.0	17
2	An updated isoerodent map of the conterminous United States. International Soil and Water Conservation Research, 2022, 10, 1-16.	6.5	8
3	Using X-ray computed tomography to quantify variability in soil macropore characteristics in pastures. Soil and Tillage Research, 2022, 215, 105194.	5.6	12
4	Improving the representation of forests in hydrological models. Science of the Total Environment, 2022, 812, 151425.	8.0	15
5	Impact of land use and tillage practice on soil macropore characteristics inferred from X-ray computed tomography. Catena, 2022, 210, 105886.	5.0	17
6	Improved forest dynamics leads to better hydrological predictions in watershed modeling. Science of the Total Environment, 2022, 821, 153180.	8.0	4
7	Temporal and spatial variability in 3D soil macropore characteristics determined using X-ray computed tomography. Journal of Soils and Sediments, 2022, 22, 1263-1277.	3.0	7
8	Temporal disaggregation of hourly precipitation under changing climate over the Southeast United States. Scientific Data, 2022, 9, 211.	5.3	14
9	Comprehensive Drought Assessment Tool for Coastal Areas, Bays, and Estuaries: Development of a Coastal Drought Index. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	1.9	6
10	Assessment of impact in groundwater levels and stream-aquifer interaction due to increased groundwater withdrawal in the lower Apalachicola-Chattahoochee-Flint (ACF) River Basin using MODFLOW. Journal of Hydrology: Regional Studies, 2021, 34, 100802.	2.4	5
11	Education in Ecological Engineeringâ€"a Need Whose Time Has Come. Circular Economy and Sustainability, 2021, 1, 333-373.	5.5	9
12	Effect of ENSO modulation by decadal and multi-decadal climatic oscillations on contiguous United States streamflows. Journal of Hydrology: Regional Studies, 2021, 36, 100876.	2.4	6
13	Improved agricultural Water management in data-scarce semi-arid watersheds: Value of integrating remotely sensed leaf area index in hydrological modeling. Science of the Total Environment, 2021, 791, 148177.	8.0	24
14	Field-Scale Spatial and Temporal Soil Water Variability in Irrigated Croplands. Transactions of the ASABE, 2021, 64, 1277-1294.	1.1	9
15	Rainfall erosivity: essential historical, conceptual, and practical perspectives for continued application. , 2021, , 373-394.		1
16	The Dominant Control of Relief on Soil Water Content Distribution During Wetâ€Dry Transitions in Headwaters. Water Resources Research, 2021, 57, e2021WR029587.	4.2	12
17	Application of CORDEX-AFRICA and NEX-GDDP datasets for hydrologic projections under climate change in Lake Ziway sub-basin, Ethiopia. Journal of Hydrology: Regional Studies, 2020, 31, 100721.	2.4	24
18	DPSIR-ESA Vulnerability Assessment (DEVA) Framework: Synthesis, Foundational Overview, and Expert Case Studies. Transactions of the ASABE, 2020, 63, 741-752.	1.1	7

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19	Effects of critical zone structure on patterns of flow connectivity induced by rainstorms in a steep forested catchment. Journal of Hydrology, 2020, 587, 125032.	5.4	25
20	Application of the Soil and Water Assessment Tool (SWAT) at Field Scale: Categorizing Methods and Review of Applications. Transactions of the ASABE, 2020, 63, 513-522.	1.1	16
21	Multi-Variable Sensitivity Analysis, Calibration, and Validation of a Field-Scale SWAT Model: Building Stakeholder Trust in Hydrologic and Water Quality Modeling. Transactions of the ASABE, 2020, 63, 523-539.	1.1	12
22	WEPPCLIFF: A command-line tool to process climate inputs for soil loss models. Journal of Open Source Software, 2020, 5, 2029.	4.6	10
23	<i>Multi-variable sensitivity analysis, calibration, and validation of a field-scale SWAT model: Building Stakeholder Trust in Hydrologic/Water Quality Modeling</i>. , 2019, , .		1
24	Modeling effectiveness of broiler litter application method for reducing phosphorus and nitrogen losses. Hydrology Research, 2019, 50, 1047-1061.	2.7	3
25	Comparison and evaluation of gridded precipitation datasets for streamflow simulation in data scarce watersheds of Ethiopia. Journal of Hydrology, 2019, 579, 124168.	5.4	64
26	Effect of Broiler Litter Application Method on Metal Runoff from Pastures. Journal of Environmental Quality, 2019, 48, 1856-1862.	2.0	4
27	Sensitivity of Groundwater Components to Irrigation Withdrawals during Droughts on Agricultural-Intensive Karst Aquifer in the Apalachicolaâ€“Chattahoocheeâ€“Flint River Basin. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	1.9	4
28	Probabilistic assessment of projected climatological drought characteristics over the Southeast USA. Climatic Change, 2018, 147, 601-615.	3.6	15
29	Selection of optimal scales for soil depth prediction on headwater hillslopes: A modeling approach. Catena, 2018, 163, 257-275.	5.0	19
30	Rainfall variability and its association with El NiÃ±o Southern Oscillation in Tons River Basin, India. Meteorology and Atmospheric Physics, 2018, 130, 405-425.	2.0	5
31	Fingerprinting Suspended Sediment Sources in an Urbanized Watershed. Water (Switzerland), 2018, 10, 1573.	2.7	12
32	Evaluation of Nonparametric and Parametric Statistical Procedures for Modeling and Prediction of Clusterâ€Correlated Hydroclimatic Data. Water Resources Research, 2018, 54, 6948-6964.	4.2	3
33	Medium-range reference evapotranspiration forecasts for the contiguous United States based on multi-model numerical weather predictions. Journal of Hydrology, 2018, 562, 502-517.	5.4	30
34	Using Soil Phosphorus Measurements to Assess the Effectiveness of Subsurface-Band Application of Broiler Litter in Reducing Phosphorus Leaching. Transactions of the ASABE, 2018, 61, 133-138.	1.1	1
35	Spatiotemporal variability of meteorological droughts in southeastern USA. Natural Hazards, 2017, 86, 1007-1038.	3.4	27
36	Evaluation of waterâ€use policies for baseflow recovery during droughts in an agricultural intensive karst watershed: Case study of the lower <scp>Apalachicolaâ€“Chattahoocheeâ€“Flint River Basin</scp>, southeastern <scp>United States</scp>. Hydrological Processes, 2017, 31, 3628-3644.	2.6	11

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37	Teleconnection of Instream Total Organic Carbon Loads with El NiÃ±o Southern Oscillation (ENSO), North Atlantic Oscillation (NAO), and Pacific Decadal Oscillation (PDO). Transactions of the ASABE, 2016, 59, 81-95.	1.1	1
38	Value of ENSO-Forecasted Drought Information for the Management of Water Resources of Small to Mid-Size Communities. Transactions of the ASABE, 2016, 59, 1733-1744.	1.1	5
39	Development of a Component-Based Modeling Framework for Agricultural Water-Resource Management. Water (Switzerland), 2016, 8, 351.	2.7	7
40	Impacts of Forest to Urban Land Conversion and ENSO Phase on Water Quality of a Public Water Supply Reservoir. Forests, 2016, 7, 29.	2.1	3
41	Climate Change: A Call for Adaptation and Mitigation Strategies. Transactions of the ASABE, 2016, 59, 1709-1713.	1.1	9
42	Climate variability and irrigation impacts on streamflows in a Karst watershedâ€"A systematic evaluation. Journal of Hydrology: Regional Studies, 2016, 8, 274-286.	2.4	19
43	Effect of irrigation pumpage during drought on karst aquifer systems in highly agricultural watersheds: example of the Apalachicola-Chattahoochee-Flint river basin, southeastern USA. Hydrogeology Journal, 2016, 24, 1565-1582.	2.1	16
44	Identifying areas sensitive to land use/land cover change for downstream flooding in a coastal Alabama watershed. Regional Environmental Change, 2016, 16, 1833-1845.	2.9	16
45	Hydrologic simulation approach for El NiÃ±o Southern Oscillation (ENSO)-affected watershed with limited raingauge stations. Hydrological Sciences Journal, 2016, 61, 991-1000.	2.6	1
46	Effect of Irrigation and Climate Variability on Water Quality of Coastal Watersheds: Case Study in Alabama. Journal of Irrigation and Drainage Engineering - ASCE, 2016, 142, 05015010.	1.0	4
47	Post-validation of SWAT model in a coastal watershed for predicting land use/cover change impacts. Hydrology Research, 2015, 46, 837-853.	2.7	22
48	Baseflow response to climate variability induced droughts in the Apalachicolaâ€"Chattahoocheeâ€"Flint River Basin, U.S.A.. Journal of Hydrology, 2015, 528, 550-561.	5.4	35
49	Developing Probability-Based IDF Curves Using Kernel Density Estimator. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	1.9	9
50	Long-Range Hydrologic Forecasting in El NiÃ±o Southern Oscillation-Affected Coastal Watersheds: Comparison of Climate Model and Weather Generator Approach. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	1.9	5
51	Performance comparison of Adoptive Neuro Fuzzy Inference System (ANFIS) with Loading Simulation Program C++ (LSPC) model for streamflow simulation in El NiÃ±o Southern Oscillation (ENSO)-affected watershed. Expert Systems With Applications, 2015, 42, 2213-2223.	7.6	33
52	Developing Rainfall Intensity-Duration-Frequency Curves for Alabama under Future Climate Scenarios Using Artificial Neural Networks. Journal of Hydrologic Engineering - ASCE, 2014, 19, .	1.9	26
53	The impact of forest to urban land conversion on streamflow, total nitrogen, total phosphorus, and total organic carbon inputs to the converse reservoir, Southern Alabama, USA. Urban Ecosystems, 2013, 16, 79-107.	2.4	17
54	Identifying critical source areas of nonpoint source pollution with SWAT and GWLF. Ecological Modelling, 2013, 268, 123-133.	2.5	144

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55	Modeling effects of changing land use/cover on daily streamflow: An Artificial Neural Network and curve number based hybrid approach. Journal of Hydrology, 2013, 485, 103-112.	5.4	125
56	Development of Community Water Deficit Index: Drought-Forecasting Tool for Small- to Mid-Size Communities of the Southeastern United States. Journal of Hydrologic Engineering - ASCE, 2013, 18, 846-858.	1.9	7
57	The impact of climate change on rainfall Intensityâ€“Durationâ€“Frequency (IDF) curves in Alabama. Regional Environmental Change, 2013, 13, 25-33.	2.9	100
58	Climate information use among southeast US water managers: beyond barriers and toward opportunities. Regional Environmental Change, 2013, 13, 141-151.	2.9	43
59	Deriving Spatially Distributed Precipitation Data Using the Artificial Neural Network and Multilinear Regression Models. Journal of Hydrologic Engineering - ASCE, 2013, 18, 194-205.	1.9	22
60	Nutrient Loss in Leachate and Surface Runoff from Surface-Broadcast and Subsurface-Banded Broiler Litter. Journal of Environmental Quality, 2013, 42, 1574-1582.	2.0	36
61	Effects of Initial Abstraction Ratio in SCS-CN Method on Modeling the Impacts of Urbanization on Peak Flows. , 2012, , .		2
62	Watershedâ€level Comparison of Predictability and Sensitivity of Two Phosphorus Models. Journal of Environmental Quality, 2012, 41, 1642-1652.	2.0	12
63	Effect of Soil Data Resolution on Identification of Critical Source Areas of Sediment. Journal of Hydrologic Engineering - ASCE, 2011, 16, 253-262.	1.9	15
64	An Ecologically-Sustainable Surface Water Withdrawal Framework for Cropland Irrigation: A Case Study in Alabama. Environmental Management, 2010, 46, 302-313.	2.7	9
65	Spatialâ€“temporal variability and hydrologic connectivity of runoff generation areas in a North Alabama pastureâ€”implications for phosphorus transport. Hydrological Processes, 2010, 24, 342-356.	2.6	23
66	Fate and Transport of Sulfadimethoxine and Ormetoprim in Two Southeastern United States Soils. Vadose Zone Journal, 2009, 8, 32-41.	2.2	13
67	Assessment of Economic and Water Quality Impacts of Land Use Change Using a Simple Bioeconomic Model. Environmental Management, 2008, 42, 122-131.	2.7	26
68	Runoff generation mechanisms in pastures of the Sand Mountain region of Alabamaâ€”a field investigation. Hydrological Processes, 2008, 22, 4222-4232.	2.6	13
69	A comprehensive GIS-based poultry litter management system for nutrient management planning and litter transportation. Computers and Electronics in Agriculture, 2008, 64, 212-224.	7.7	20
70	Sorption of the Veterinary Antimicrobials Sulfadimethoxine and Ormetoprim in Soil. Journal of Environmental Quality, 2008, 37, 1510-1518.	2.0	24
71	Stream ecosystem responses to spatially variable land cover: an empirically based model for developing riparian restoration strategies. Freshwater Biology, 2007, 52, 680-695.	2.4	33
72	COMPARISON OF PROCESS-BASED AND ARTIFICIAL NEURAL NETWORK APPROACHES FOR STREAMFLOW MODELING IN AN AGRICULTURAL WATERSHED. Journal of the American Water Resources Association, 2006, 42, 545-563.	2.4	82

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73	WATERSHED OPTIMIZATION OF AGRICULTURAL BEST MANAGEMENT PRACTICES: CONTINUOUS SIMULATION VERSUS DESIGN STORMS. Journal of the American Water Resources Association, 2003, 39, 1043-1054.	2.4	19
74	AnnGIS: Integration of GIS and a Continuous Simulation Model for Non-Point Source Pollution Assessment. Transactions in GIS, 2001, 5, 221-234.	2.3	5