

Ashish Pandey

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

3,752
citations

117625

34
h-index

144013

57
g-index

129
all docs

129
docs citations

129
times ranked

2893
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of critical erosion prone areas in the small agricultural watershed using USLE, GIS and remote sensing. <i>Water Resources Management</i> , 2007, 21, 729-746.	3.9	278
2	Soil Erosion Assessment in a Hilly Catchment of North Eastern India Using USLE, GIS and Remote Sensing. <i>Water Resources Management</i> , 2008, 22, 1783-1798.	3.9	264
3	Statistical analysis of long term spatial and temporal trends of precipitation during 1901â€“2002 at Madhya Pradesh, India. <i>Atmospheric Research</i> , 2013, 122, 136-149.	4.1	246
4	Modeling of daily pan evaporation in sub tropical climates using ANN, LS-SVR, Fuzzy Logic, and ANFIS. <i>Expert Systems With Applications</i> , 2014, 41, 5267-5276.	7.6	232
5	Physically based soil erosion and sediment yield models revisited. <i>Catena</i> , 2016, 147, 595-620.	5.0	182
6	Prioritizing erosion-prone area through morphometric analysis: an RS and GIS perspective. <i>Applied Water Science</i> , 2014, 4, 51-61.	5.6	129
7	Runoff and sediment yield modeling from a small agricultural watershed in India using the WEPP model. <i>Journal of Hydrology</i> , 2008, 348, 305-319.	5.4	100
8	Soil erosion modeling of a Himalayan watershed using RS and GIS. <i>Environmental Earth Sciences</i> , 2009, 59, 399-410.	2.7	100
9	Evaluation of best management practices for sediment and nutrient loss control using SWAT model. <i>Soil and Tillage Research</i> , 2019, 192, 42-58.	5.6	84
10	Analysing trends in reference evapotranspiration and weather variables in the Tons River Basin in Central India. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 1407-1421.	4.0	78
11	Long-term historic changes in climatic variables of Betwa Basin, India. <i>Theoretical and Applied Climatology</i> , 2014, 117, 403-418.	2.8	75
12	Landslide Hazard Zonation using Remote Sensing and GIS: a case study of Dikrong river basin, Arunachal Pradesh, India. <i>Environmental Geology</i> , 2008, 54, 1517-1529.	1.2	73
13	Integrating Hydro-Meteorological and Physiographic Factors for Assessment of Vulnerability to Drought. <i>Water Resources Management</i> , 2010, 24, 4199-4217.	3.9	73
14	Evaluation of the SWAT model for water balance study of a mountainous snowfed river basin of Nepal. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	65
15	Daily suspended sediment simulation using machine learning approach. <i>Catena</i> , 2016, 138, 77-90.	5.0	64
16	A detailed assessment of meteorological drought characteristics using simplified rainfall index over Narmada River Basin, India. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	59
17	Remote sensing and GIS for identification of suitable sites for soil and water conservation structures. <i>Land Degradation and Development</i> , 2011, 22, 359-372.	3.9	58
18	Spatial and temporal variability in maximum, minimum and mean air temperatures at Madhya Pradesh in central India. <i>Comptes Rendus - Geoscience</i> , 2013, 345, 3-21.	1.2	57

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19	Statistical downscaling of temperature using three techniques in the Tons River basin in Central India. Theoretical and Applied Climatology, 2015, 121, 605-622.	2.8	53
20	Modelling spatiotemporal land dynamics for a trans-boundary river basin using integrated Cellular Automata and Markov Chain approach. Applied Geography, 2017, 82, 11-23.	3.7	53
21	Evaluation of the Soil Conservation Service curve number methodology using data from agricultural plots. Hydrogeology Journal, 2017, 25, 151-167.	2.1	52
22	Application of semi-distributed hydrological model for basin level water balance of the Ken basin of Central India. Hydrological Processes, 2014, 28, 4119-4129.	2.6	51
23	Application of SWAT in an Indian river basin for modeling runoff, sediment and water balance. Environmental Earth Sciences, 2017, 76, 1.	2.7	51
24	Application of the WEPP model for prioritization and evaluation of best management practices in an Indian watershed. Hydrological Processes, 2009, 23, 2997-3005.	2.6	49
25	Assessing the applicability of TMPA-3B42V7 precipitation dataset in wavelet-support vector machine approach for suspended sediment load prediction. Journal of Hydrology, 2017, 550, 103-117.	5.4	48
26	Climate change impact on forest cover and vegetation in Betwa Basin, India. Applied Water Science, 2017, 7, 103-114.	5.6	45
27	Simplified sediment yield index model incorporating parameter curve number. Arabian Journal of Geosciences, 2015, 8, 1993-2004.	1.3	41
28	Spatiotemporal assessment of precipitation variability, seasonality, and extreme characteristics over a Himalayan catchment. Theoretical and Applied Climatology, 2022, 147, 817-833.	2.8	41
29	Experimental Verification of the Effect of Slope and Land Use on SCS Runoff Curve Number. Water Resources Management, 2014, 28, 3407-3416.	3.9	40
30	Assessment of hydropower potential using spatial technology and SWAT modelling in the Mat River, southern Mizoram, India. Hydrological Sciences Journal, 2015, 60, 1651-1665.	2.6	39
31	Inclusion of groundwater and socio-economic factors for assessing comprehensive drought vulnerability over Narmada River Basin, India: A geospatial approach. Applied Water Science, 2022, 12, 1.	5.6	38
32	Sediment yield modelling of an agricultural watershed using MUSLE, remote sensing and GIS. Paddy and Water Environment, 2009, 7, 105-113.	1.8	37
33	Relationship between SCS-CN and Sediment Yield. Applied Water Science, 2014, 4, 363-370.	5.6	37
34	Modelling of runoff and sediment yield using ANN, LS-SVR, REPTree and M5 models. Hydrology Research, 2017, 48, 1489-1507.	2.7	37
35	Hydrological simulation of the Betwa River basin (India) using the SWAT model. Hydrological Sciences Journal, 2017, 62, 960-978.	2.6	36
36	Assessment of reservoir sedimentation using remote sensing and recommendations for desilting Patraru Reservoir, India. Hydrological Sciences Journal, 2016, 61, 711-718.	2.6	35

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37	Physical verification of the effect of land features and antecedent moisture on runoff curve number. Catena, 2015, 133, 318-327.	5.0	34
38	Hydrologic Evaluation of the TMPA-3B42V7 Precipitation Data Set over an Agricultural Watershed Using the SWAT Model. Journal of Hydrologic Engineering - ASCE, 2018, 23, 05018003.	1.9	34
39	Estimation of design runoff curve numbers for Narmada watersheds (India). Journal of Applied Water Engineering and Research, 2013, 1, 69-79.	1.8	32
40	Exploring recent groundwater level changes using Innovative Trend Analysis (ITA) technique over three districts of Jharkhand, India. Groundwater for Sustainable Development, 2022, 18, 100783.	4.6	29
41	SIMULATION AND OPTIMIZATION FOR IRRIGATION AND CROP PLANNING. Irrigation and Drainage, 2012, 61, 178-188.	1.7	27
42	Ensemble Wavelet-Support Vector Machine Approach for Prediction of Suspended Sediment Load Using Hydrometeorological Data. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	26
43	Assessment of meteorological droughts over Hoshangabad district, India. IOP Conference Series: Earth and Environmental Science, 2020, 491, 012012.	0.3	24
44	A Soil Water Assessment Tool (SWAT) Modeling Approach to Prioritize Soil Conservation Management in River Basin Critical Areas Coupled With Future Climate Scenario Analysis. Air, Soil and Water Research, 2021, 14, 117862212110213.	2.5	23
45	Hypsometric analysis of Shakkar river catchment through geographical information system. Journal of the Geological Society of India, 2014, 84, 192-196.	1.1	22
46	Assessing future water-sediment interaction and critical area prioritization at sub-watershed level for sustainable management. Paddy and Water Environment, 2019, 17, 373-382.	1.8	22
47	Development of ARIMA Model for Monthly Rainfall Forecasting over an Indian River Basin. , 2019, , .		20
48	Evaluation of classification algorithms for land use land cover mapping in the snow-fed Alaknanda River Basin of the Northwest Himalayan Region. Applied Geomatics, 2021, 13, 863-875.	2.5	19
49	Special Issue on Soil Conservation Service Curve Number (SCS-CN) Methodology. Journal of Hydrologic Engineering - ASCE, 2012, 17, 1157-1157.	1.9	18
50	Trend Analysis of Precipitation and Temperature for Bilaspur District, Chhattisgarh, India. , 2019, , .		18
51	Streamflow estimation using satellite-retrieved water fluxes and machine learning technique over monsoon-dominated catchments of India. Hydrological Sciences Journal, 2021, 66, 656-671.	2.6	18
52	SCS-CN-Based Improved Models for Direct Surface Runoff Estimation from Large Rainfall Events. Water Resources Management, 2021, 35, 2149-2175.	3.9	18
53	Identification of Meteorological Extreme Years Over Central Division of Odisha Using an Index-Based Approach. Water Science and Technology Library, 2021, , 161-174.	0.3	18
54	Assessment of Uncertainties in Modelling Land Use Change with an Integrated Cellular Automata-Markov Chain Model. Environmental Modeling and Assessment, 2022, 27, 275-293.	2.2	18

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55	Modeling Suspended Sediment Using Artificial Neural Networks and TRMM-3B42 Version 7 Rainfall Dataset. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	1.9	17
56	Evaluation of TRMM multi-satellite precipitation analysis (TMPA) against terrestrial measurement over a humid sub-tropical basin, India. Theoretical and Applied Climatology, 2017, 129, 783-799.	2.8	17
57	Assessment of heavy metal contamination in livestock drinking water of Upper Ganga Canal (Roorkee) Tj ETQq1 1 0.784314 1.3 17 /Over	1.3	17
58	Flash flood vulnerability assessment and zonation through an integrated approach in the Upper Ganga Basin of the Northwest Himalayan region in Uttarakhand. International Journal of Disaster Risk Reduction, 2021, 66, 102573.	3.9	16
59	Hydrological modelling through SWAT over a Himalayan catchment using high-resolution geospatial inputs. Environmental Challenges, 2022, 8, 100579.	4.2	16
60	Estimation of runoff for hilly catchment using satellite data. Journal of the Indian Society of Remote Sensing, 2004, 32, 235-240.	2.4	14
61	Use of remote sensing and ANN in assessment of erosion activities in Majuli, the world's largest river island. International Journal of Remote Sensing, 2005, 26, 4445-4454.	2.9	14
62	Assessment of Hydrological Drought Vulnerability using Geospatial Techniques in the Tons River Basin, India. Journal of the Indian Society of Remote Sensing, 2021, 49, 2623-2637.	2.4	14
63	Evaluation of effective management plan for an agricultural watershed using AVSWAT model, remote sensing and GIS. Environmental Geology, 2009, 56, 993-1008.	1.2	13
64	RS and Geographical Information Systemâ€‘Based Evaluation of Distributed and Composite Curve Number Techniques. Journal of Hydrologic Engineering - ASCE, 2012, 17, 1278-1286.	1.9	13
65	Evaluation of TRMM-Precipitation with Rain-Gauge Observation Using Hydrological Model J2000. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	13
66	Uncertainty Assessment in Soil Erosion Modelling Using RUSLE, Multisource and Multiresolution DEMs. Journal of the Indian Society of Remote Sensing, 2021, 49, 1689-1707.	2.4	13
67	Assessing the land degradation and greening response to changes in hydroâ€‘climatic variables using a conceptual framework: A caseâ€‘study in central India. Land Degradation and Development, 2021, 32, 4132-4148.	3.9	12
68	Modelling of wetting pattern under trickle source in sandy soil of Nirjuli, Arunachal Pradesh (India). Irrigation Science, 2012, 30, 287-292.	2.8	11
69	Soil Erosion Modeling Using Satellite Rainfall Estimates. Journal of Water Resource and Hydraulic Engineering, 2015, 4, 318-325.	0.2	11
70	A Framework for Managing Irrigation Water Requirements under Climatic Uncertainties over Beed District, Maharashtra, India. , 2020, , .		10
71	Assessments of spatial land cover dynamic hotspots employing MODIS time-series datasets in the Ken River Basin of Central India. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	8
72	A simple procedure for design flood estimation incorporating duration and return period of design rainfall. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	6

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73	Ground validation of GPM Day-1 IMERG and TMPA Version-7 products over different rainfall regimes in India. Theoretical and Applied Climatology, 2022, 149, 931-943.	2.8	6
74	A procedure for determination of design runoff curve number for Bamhani Watershed. , 2013, , .		5
75	Rainfall variability and its association with El Niño Southern Oscillation in Tons River Basin, India. Meteorology and Atmospheric Physics, 2018, 130, 405-425.	2.0	5
76	Soil erosion assessment of a Himalayan river basin using TRMM data. Proceedings of the International Association of Hydrological Sciences, 0, 366, 200-200.	1.0	5
77	Assessing Contributions of Intensity-based Rainfall Classes to Annual Rainfall and Wet Days over Tehri Catchment, India. Lecture Notes in Civil Engineering, 2021, , 113-121.	0.4	5
78	Hybrid ensemble modeling for flash flood potential assessment and susceptibility analysis of a Himalayan river catchment. Geocarto International, 2022, 37, 9132-9159.	3.5	5
79	GIS based graphical user interface for irrigation management. Water Science and Technology: Water Supply, 2016, 16, 1536-1551.	2.1	4
80	Evaluation of Satellite-Based Precipitation Estimates over an Agricultural Watershed of India. , 2018, , .		4
81	Long Term Historic Changes of Precipitation and Aridity Index over an Indian River Basin. , 2018, , .		4
82	Water Quality and Human Health. Water Science and Technology Library, 2021, , 331-369.	0.3	4
83	Can slope adjusted Curve Number models compensate runoff underestimation in steep watersheds?: A study over experimental plots in India. Physics and Chemistry of the Earth, 2022, 127, 103185.	2.9	4
84	Special Issue on Soil Erosion and Sediment Yield Modeling. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	1.9	3
85	Determination and Verification of Antecedent Soil Moisture Using Soil Conservation Service Curve Number Method under Various Land Uses by Employing the Data of Small Indian Experimental Farms. , 2020, , .		3
86	Long-Term Historic Changes in Temperature and Potential Evapotranspiration Over Betwa River Basin. Water Science and Technology Library, 2021, , 267-286.	0.3	3
87	Effectiveness of Best Management Practices on Dependable Flows in a River Basin Using Hydrological SWAT Model. Water Science and Technology Library, 2021, , 335-348.	0.3	3
88	Stochastic Modelling of Rainfall in Humid Region of North East India. Water Resources Management, 2008, 22, 1395-1407.	3.9	2
89	Identification of Flood and Drought Years over the Northeast Indian Region Using Normalized Index. , 2020, , .		2
90	Development of A Spatial Decision System for Irrigation Management. Journal of the Indian Society of Remote Sensing, 0, , 1.	2.4	2

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91	Empirical evaluation of Soil Conservation Service Curve Number inspired sediment yield model. Journal of Soil and Water Conservation, 2017, 16, 142.	0.2	2
92	ANN MODEL DEVELOPMENT FOR BANK-LINE MIGRATION OF RIVER BRAHMAPUTRA USING REMOTE SENSING DATA. ISH Journal of Hydraulic Engineering, 2004, 10, 56-64.	2.1	1
93	SNOWMELT RUNOFF MODELING AND IMPACT OF CLIMATE CHANGE IN THE HIMALAYAN RIVER BASIN. , 2016, , .		1
94	Assessment of Multiple Satellite-Based Precipitation Estimates Over Muneru Watershed of India. Water Science and Technology Library, 2021, , 61-78.	0.3	1
95	SCS-CN method revisited in perspective of strange data. International Journal of Hydrology, 2019, 3, .	0.6	1
96	Research Needs for Stream Power Moderation in Hilly Torrents for Disaster Mitigation. Water Science and Technology Library, 2021, , 185-201.	0.3	1
97	Curve Numbers Computation Using Observed Rainfall-Runoff Data and RS and GIS-Based NRCS-CN Method for Direct Surface Runoff Estimation in Tilaiya Catchment. Water Science and Technology Library, 2022, , 237-254.	0.3	1
98	Performance Evaluation of a Minor of Upper Ganga Canal System Using Geospatial Technology and Secondary Data. Water Science and Technology Library, 2022, , 155-172.	0.3	1
99	Sediment Yield Modeling of A Watershed Using GIS. , 2011, , .		0
100	Revisiting the useful life computation of Gobindsagar (Bhakra) reservoir. ISH Journal of Hydraulic Engineering, 2016, 22, 115-123.	2.1	0
101	Runoff Curve Number for 36 Small Agricultural Plots at Two Different Climatic Conditions in India. Water Science and Technology Library, 2017, , 255-269.	0.3	0
102	Integrated Water Resources Management of Ken-Betwa Link. , 2017, , 849-873.		0
103	Analysis of Climate Variability in a Part of Brahmaputra River Basin in India. , 2017, , 113-142.		0
104	Distributed Hydrological Modelling Under Hypothetical Climate Change Scenario for a Sub-basin of the Brahmaputra River. , 2017, , 219-247.		0
105	Plot scale assessment of effect of watershed features on runoff and sediment generation in Uttarakhand, India. Indian Journal of Dryland Agricultural Research and Development, 2017, 32, 50.	0.1	0
106	Water Quality Status of Upper Ganga Canal. Water Science and Technology Library, 2021, , 21-34.	0.3	0
107	Hydrological Modeling of West Rapti River Basin of Nepal Using SWAT Model. Water Science and Technology Library, 2021, , 279-302.	0.3	0
108	Revisiting the Antecedent Moisture Content-Based Curve Number Formulae. Water Science and Technology Library, 2021, , 317-334.	0.3	0

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109	Performance Evaluation of a Rainfall Simulator in Laboratory. Water Science and Technology Library, 2021, , 375-391.	0.3	0
110	Reference Crop Evapotranspiration Estimation Using Remote Sensing Technique. Water Science and Technology Library, 2021, , 91-111.	0.3	0
111	Assessing Irrigation Water Requirement and Its Trend for Betwa River Basin, India. Water Science and Technology Library, 2021, , 113-133.	0.3	0
112	Review of Flow Simulation Methods in Alluvial River. Water Science and Technology Library, 2021, , 289-306.	0.3	0
113	Morphometric Characterization and Flash Flood Zonation of a Mountainous Catchment Using Weighted Sum Approach. Water Science and Technology Library, 2022, , 409-428.	0.3	0
114	Application of Active Space-Borne Microwave Remote Sensing in Flood Hazard Management. Water Science and Technology Library, 2022, , 457-482.	0.3	0
115	Hydrological Change Detection Mapping and Monitoring of Ramganga Reservoir, Pauri Gharwal, Uttarakhand, Using Geospatial Technique. Water Science and Technology Library, 2022, , 365-389.	0.3	0
116	Land Use Land Cover Change Detection of the Tons River Basin Using Remote Sensing and GIS. Water Science and Technology Library, 2022, , 53-65.	0.3	0