

Ashish Pandey

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

2,526
citations

29
h-index

48
g-index

129
ext. papers

3,103
ext. citations

2.3
avg, IF

5.76
L-index

#	Paper	IF	Citations
117	Inclusion of groundwater and socio-economic factors for assessing comprehensive drought vulnerability over Narmada River Basin, India: A geospatial approach. <i>Applied Water Science</i> , 2022 , 12, 1	5	8
116	Role of Geospatial Technology for Enhancement of Field Water Use Efficiency. <i>Water Science and Technology Library</i> , 2022 , 173-184	0.3	
115	Morphometric Characterization and Flash Flood Zonation of a Mountainous Catchment Using Weighted Sum Approach. <i>Water Science and Technology Library</i> , 2022 , 409-428	0.3	
114	Curve Numbers Computation Using Observed Rainfall-Runoff Data and RS and GIS-Based NRCS-CN Method for Direct Surface Runoff Estimation in Tilaiya Catchment. <i>Water Science and Technology Library</i> , 2022 , 237-254	0.3	0
113	Overview of Geospatial Technologies for Land and Water Resources Management. <i>Water Science and Technology Library</i> , 2022 , 1-16	0.3	1
112	Performance Evaluation of a Minor of Upper Ganga Canal System Using Geospatial Technology and Secondary Data. <i>Water Science and Technology Library</i> , 2022 , 155-172	0.3	
111	Performance Evaluation of SM2RAIN-ASCAT Rainfall Product Over an Agricultural Watershed of India. <i>Water Science and Technology Library</i> , 2022 , 223-236	0.3	1
110	Application of Remote Sensing and GIS in Crop Yield Forecasting and Water Productivity. <i>Water Science and Technology Library</i> , 2022 , 207-222	0.3	1
109	Application of Active Space-Borne Microwave Remote Sensing in Flood Hazard Management. <i>Water Science and Technology Library</i> , 2022 , 457-482	0.3	
108	Appraisal of Land Use/Land Cover Change Over Tehri Catchment Using Remote Sensing and GIS. <i>Water Science and Technology Library</i> , 2022 , 37-51	0.3	
107	Hydrological Change Detection Mapping and Monitoring of Ramganga Reservoir, Pauri Gharwal, Uttarakhand, Using Geospatial Technique. <i>Water Science and Technology Library</i> , 2022 , 365-389	0.3	
106	Land Use Land Cover Change Detection of the Tons River Basin Using Remote Sensing and GIS. <i>Water Science and Technology Library</i> , 2022 , 53-65	0.3	
105	Exploring recent groundwater level changes using Innovative Trend Analysis (ITA) technique over three districts of Jharkhand, India. <i>Groundwater for Sustainable Development</i> , 2022 , 18, 100783	6	1
104	Space-Borne Scatterometers for Understanding the Large-Scale Land Hydrological Processes. <i>Water Science and Technology Library</i> , 2022 , 97-121	0.3	
103	Long-Term Historic Changes in Temperature and Potential Evapotranspiration Over Betwa River Basin. <i>Water Science and Technology Library</i> , 2021 , 267-286	0.3	1
102	Water Quality and Human Health. <i>Water Science and Technology Library</i> , 2021 , 331-369	0.3	1
101	Water Quality Assessment of Upper Ganga Canal for Human Drinking. <i>Water Science and Technology Library</i> , 2021 , 371-392	0.3	6

100	Water Quality Status of Upper Ganga Canal. <i>Water Science and Technology Library</i> , 2021 , 21-34	0.3	
99	Hydrological Modeling of West Rapti River Basin of Nepal Using SWAT Model. <i>Water Science and Technology Library</i> , 2021 , 279-302	0.3	
98	Revisiting the Antecedent Moisture Content-Based Curve Number Formulae. <i>Water Science and Technology Library</i> , 2021 , 317-334	0.3	
97	Effectiveness of Best Management Practices on Dependable Flows in a River Basin Using Hydrological SWAT Model. <i>Water Science and Technology Library</i> , 2021 , 335-348	0.3	0
96	Performance Evaluation of a Rainfall Simulator in Laboratory. <i>Water Science and Technology Library</i> , 2021 , 375-391	0.3	
95	Reference Crop Evapotranspiration Estimation Using Remote Sensing Technique. <i>Water Science and Technology Library</i> , 2021 , 91-111	0.3	
94	Assessing Irrigation Water Requirement and Its Trend for Betwa River Basin, India. <i>Water Science and Technology Library</i> , 2021 , 113-133	0.3	
93	Research Needs for Stream Power Moderation in Hilly Torrents for Disaster Mitigation. <i>Water Science and Technology Library</i> , 2021 , 185-201	0.3	0
92	Review of Flow Simulation Methods in Alluvial River. <i>Water Science and Technology Library</i> , 2021 , 289-306.	0.3	
91	Assessing Contributions of Intensity-based Rainfall Classes to Annual Rainfall and Wet Days over Tehri Catchment, India. <i>Lecture Notes in Civil Engineering</i> , 2021 , 113-121	0.3	4
90	Flash flood vulnerability assessment and zonation through an integrated approach in the Upper Ganga Basin of the Northwest Himalayan region in Uttarakhand. <i>International Journal of Disaster Risk Reduction</i> , 2021 , 66, 102573	4.5	5
89	Identification of Meteorological Extreme Years Over Central Division of Odisha Using an Index-Based Approach. <i>Water Science and Technology Library</i> , 2021 , 161-174	0.3	9
88	Uncertainty Assessment in Soil Erosion Modelling Using RUSLE, Multisource and Multiresolution DEMs 2021 , 49, 1689-1707		6
87	A detailed assessment of meteorological drought characteristics using simplified rainfall index over Narmada River Basin, India. <i>Environmental Earth Sciences</i> , 2021 , 80, 1	2.9	19
86	SCS-CN-Based Improved Models for Direct Surface Runoff Estimation from Large Rainfall Events. <i>Water Resources Management</i> , 2021 , 35, 2149-2175	3.7	3
85	Assessing the land degradation and greening response to changes in hydro-climatic variables using a conceptual framework: A case-study in central India. <i>Land Degradation and Development</i> , 2021 , 32, 4132-4148	4.4	2
84	A simple procedure for design flood estimation incorporating duration and return period of design rainfall. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	2
83	Mapping Punjab Flood using Multi-temporal Open-Access Synthetic Aperture Radar Data in Google Earth Engine. <i>Water Science and Technology Library</i> , 2021 , 75-85	0.3	5

82	Assessment of Multiple Satellite-Based Precipitation Estimates Over Muneru Watershed of India. <i>Water Science and Technology Library</i> , 2021 , 61-78	0.3	1
81	A Soil Water Assessment Tool (SWAT) Modeling Approach to Prioritize Soil Conservation Management in River Basin Critical Areas Coupled With Future Climate Scenario Analysis. <i>Air, Soil and Water Research</i> , 2021 , 14, 117862212110213	3.3	10
80	Streamflow estimation using satellite-retrieved water fluxes and machine learning technique over monsoon-dominated catchments of India. <i>Hydrological Sciences Journal</i> , 2021 , 66, 656-671	3.5	8
79	Assessment of Hydrological Drought Vulnerability using Geospatial Techniques in the Tons River Basin, India 2021 , 49, 2623		9
78	Assessment of heavy metal contamination in livestock drinking water of Upper Ganga Canal (Roorkee City, India). <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	4
77	A Framework for Managing Irrigation Water Requirements under Climatic Uncertainties over Beed District, Maharashtra, India 2020 ,		7
76	Identification of Flood and Drought Years over the Northeast Indian Region Using Normalized Index 2020 ,		1
75	Assessment of meteorological droughts over Hoshangabad district, India. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 491, 012012	0.3	14
74	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 ,		2
73	Trend Analysis of Precipitation and Temperature for Bilaspur District, Chhattisgarh, India 2019 ,		9
72	Development of ARIMA Model for Monthly Rainfall Forecasting over an Indian River Basin 2019 ,		15
71	Evaluation of best management practices for sediment and nutrient loss control using SWAT model. <i>Soil and Tillage Research</i> , 2019 , 192, 42-58	6.5	46
70	Assessing future waterSediment interaction and critical area prioritization at sub-watershed level for sustainable management. <i>Paddy and Water Environment</i> , 2019 , 17, 373-382	1.6	9
69	Hydrologic Evaluation of the TMPA-3B42V7 Precipitation Data Set over an Agricultural Watershed Using the SWAT Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018 , 23, 05018003	1.8	23
68	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	2.9	40
67	Rainfall variability and its association with El Niño Southern Oscillation in Tons River Basin, India. <i>Meteorology and Atmospheric Physics</i> , 2018 , 130, 405-425	2	1
66	Assessments of spatial land cover dynamic hotspots employing MODIS time-series datasets in the Ken River Basin of Central India. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	4
65	Evaluation of Satellite-Based Precipitation Estimates over an Agricultural Watershed of India 2018 ,		3

64	Long Term Historic Changes of Precipitation and Aridity Index over an Indian River Basin 2018 ,		3
63	Climate change impact on forest cover and vegetation in Betwa Basin, India. <i>Applied Water Science</i> , 2017 , 7, 103-114	5	31
62	Evaluation of TRMM-Precipitation with Rain-Gauge Observation Using Hydrological Model J2000. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017 , 22,	1.8	8
61	Evaluation of TRMM multi-satellite precipitation analysis (TMPA) against terrestrial measurement over a humid sub-tropical basin, India. <i>Theoretical and Applied Climatology</i> , 2017 , 129, 783-799	3	11
60	Modelling of runoff and sediment yield using ANN, LS-SVR, REPTree and M5 models 2017 , 48, 1489-1507		31
59	Application of SWAT in an Indian river basin for modeling runoff, sediment and water balance. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	33
58	Modelling spatiotemporal land dynamics for a trans-boundary river basin using integrated Cellular Automata and Markov Chain approach. <i>Applied Geography</i> , 2017 , 82, 11-23	4.4	41
57	Ensemble Wavelet-Support Vector Machine Approach for Prediction of Suspended Sediment Load Using Hydrometeorological Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017 , 22, 05017006	1.8	19
56	Assessing the applicability of TMPA-3B42V7 precipitation dataset in wavelet-support vector machine approach for suspended sediment load prediction. <i>Journal of Hydrology</i> , 2017 , 550, 103-117	6	39
55	Runoff Curve Number for 36 Small Agricultural Plots at Two Different Climatic Conditions in India. <i>Water Science and Technology Library</i> , 2017 , 255-269	0.3	
54	Hydrological simulation of the Betwa River basin (India) using the SWAT model. <i>Hydrological Sciences Journal</i> , 2017 , 62, 960-978	3.5	18
53	Integrated Water Resources Management of Ken-Betwa Link 2017 , 849-873		
52	Evaluation of the Soil Conservation Service curve number methodology using data from agricultural plots. <i>Hydrogeology Journal</i> , 2017 , 25, 151-167	3.1	39
51	Analysis of Climate Variability in a Part of Brahmaputra River Basin in India 2017 , 113-142		
50	Distributed Hydrological Modelling Under Hypothetical Climate Change Scenario for a Sub-basin of the Brahmaputra River 2017 , 219-247		
49	Assessment of reservoir sedimentation using remote sensing and recommendations for desilting Patratu Reservoir, India. <i>Hydrological Sciences Journal</i> , 2016 , 61, 711-718	3.5	19
48	Physically based soil erosion and sediment yield models revisited. <i>Catena</i> , 2016 , 147, 595-620	5.8	123
47	Daily suspended sediment simulation using machine learning approach. <i>Catena</i> , 2016 , 138, 77-90	5.8	45

46	SNOWMELT RUNOFF MODELING AND IMPACT OF CLIMATE CHANGE IN THE HIMALAYAN RIVER BASIN 2016 ,		1
45	GIS based graphical user interface for irrigation management. <i>Water Science and Technology: Water Supply</i> , 2016 , 16, 1536-1551	1.4	3
44	Revisiting the useful life computation of Gobindsagar (Bhakra) reservoir. <i>ISH Journal of Hydraulic Engineering</i> , 2016 , 22, 115-123	1.5	
43	Physical verification of the effect of land features and antecedent moisture on runoff curve number. <i>Catena</i> , 2015 , 133, 318-327	5.8	25
42	Modeling Suspended Sediment Using Artificial Neural Networks and TRMM-3B42 Version 7 Rainfall Dataset. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20,	1.8	11
41	Simplified sediment yield index model incorporating parameter curve number. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 1993-2004	1.8	30
40	Statistical downscaling of temperature using three techniques in the Tons River basin in Central India. <i>Theoretical and Applied Climatology</i> , 2015 , 121, 605-622	3	40
39	Assessment of hydropower potential using spatial technology and SWAT modelling in the Mat River, southern Mizoram, India. <i>Hydrological Sciences Journal</i> , 2015 , 60, 1651-1665	3.5	23
38	Special Issue on Soil Erosion and Sediment Yield Modeling. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20,	1.8	3
37	Soil Erosion Modeling Using Satellite Rainfall Estimates. <i>Journal of Water Resource and Hydraulic Engineering</i> , 2015 , 4, 318-325		8
36	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	7.8	182
35	Prioritizing erosion-prone area through morphometric analysis: an RS and GIS perspective. <i>Applied Water Science</i> , 2014 , 4, 51-61	5	90
34	Hypsometric analysis of Shakkar river catchment through geographical information system. <i>Journal of the Geological Society of India</i> , 2014 , 84, 192-196	1.3	16
33	Long-term historic changes in climatic variables of Betwa Basin, India. <i>Theoretical and Applied Climatology</i> , 2014 , 117, 403-418	3	48
32	Experimental Verification of the Effect of Slope and Land Use on SCS Runoff Curve Number. <i>Water Resources Management</i> , 2014 , 28, 3407-3416	3.7	31
31	Application of semi-distributed hydrological model for basin level water balance of the Ken basin of Central India. <i>Hydrological Processes</i> , 2014 , 28, 4119-4129	3.3	30
30	Relationship between SCS-CN and Sediment Yield. <i>Applied Water Science</i> , 2014 , 4, 363-370	5	33
29	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	3.5	62

28	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	1.4	36
27	Statistical analysis of long term spatial and temporal trends of precipitation during 1901-2002 at Madhya Pradesh, India. <i>Atmospheric Research</i> , 2013 , 122, 136-149	5.4	184
26	2013 ,		3
25	Estimation of design runoff curve numbers for Narmada watersheds (India). <i>Journal of Applied Water Engineering and Research</i> , 2013 , 1, 69-79	1.2	24
24	Special Issue on Soil Conservation Service Curve Number (SCS-CN) Methodology. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 1157-1157	1.8	14
23	SIMULATION AND OPTIMIZATION FOR IRRIGATION AND CROP PLANNING. <i>Irrigation and Drainage</i> , 2012 , 61, 178-188	1.1	20
22	Modelling of wetting pattern under trickle source in sandy soil of Nirjuli, Arunachal Pradesh (India). <i>Irrigation Science</i> , 2012 , 30, 287-292	3.1	7
21	RS and Geographical Information System Based Evaluation of Distributed and Composite Curve Number Techniques. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 1278-1286	1.8	10
20	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	4.4	48
19	Integrating Hydro-Meteorological and Physiographic Factors for Assessment of Vulnerability to Drought. <i>Water Resources Management</i> , 2010 , 24, 4199-4217	3.7	56
18	Application of the WEPP model for prioritization and evaluation of best management practices in an Indian watershed. <i>Hydrological Processes</i> , 2009 , 23, 2997-3005	3.3	41
17	Sediment yield modelling of an agricultural watershed using MUSLE, remote sensing and GIS. <i>Paddy and Water Environment</i> , 2009 , 7, 105-113	1.6	28
16	Soil erosion modeling of a Himalayan watershed using RS and GIS. <i>Environmental Earth Sciences</i> , 2009 , 59, 399-410	2.9	68
15	Evaluation of effective management plan for an agricultural watershed using AVSWAT model, remote sensing and GIS. <i>Environmental Geology</i> , 2009 , 56, 993-1008		11
14	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	6	83
13	Stochastic Modelling of Rainfall in Humid Region of North East India. <i>Water Resources Management</i> , 2008 , 22, 1395-1407	3.7	2
12	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	3.7	198
11	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		58

10	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	3.7	220
9	Use of remote sensing and ANN in assessment of erosion activities in Majuli, the world's largest river island. <i>International Journal of Remote Sensing</i> , 2005 , 26, 4445-4454	3.1	9
8	ANN MODEL DEVELOPMENT FOR BANK-LINE MIGRATION OF RIVER BRAHMAPUTRA USING REMOTE SENSING DATA. <i>ISH Journal of Hydraulic Engineering</i> , 2004 , 10, 56-64	1.5	1
7	Estimation of runoff for hilly catchment using satellite data 2004 , 32, 235-240		10
6	Assessment of Uncertainties in Modelling Land Use Change with an Integrated Cellular Automata-Markov Chain Model. <i>Environmental Modeling and Assessment</i> , 1	2	2
5	Spatiotemporal assessment of precipitation variability, seasonality, and extreme characteristics over a Himalayan catchment. <i>Theoretical and Applied Climatology</i> , 1	3	6
4	Soil erosion assessment of a Himalayan river basin using TRMM data. <i>Proceedings of the International Association of Hydrological Sciences</i> , 366, 200-200		3
3	Development of A Spatial Decision System for Irrigation Management 1		0
2	Evaluation of classification algorithms for land use land cover mapping in the snow-fed Alaknanda River Basin of the Northwest Himalayan Region. <i>Applied Geomatics</i> , 1	2.2	4
1	Hybrid ensemble modeling for flash flood potential assessment and susceptibility analysis of a Himalayan river catchment. <i>Geocarto International</i> , 1-28	2.7	1