

# Ashish Pandey

## List of Publications by Citations

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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	Identification of critical erosion prone areas in the small agricultural watershed using USLE, GIS and remote sensing. <i>Water Resources Management</i> , <b>2007</b> , 21, 729-746	3.7	220
116	Soil Erosion Assessment in a Hilly Catchment of North Eastern India Using USLE, GIS and Remote Sensing. <i>Water Resources Management</i> , <b>2008</b> , 22, 1783-1798	3.7	198
115	Statistical analysis of long term spatial and temporal trends of precipitation during 1901-2002 at Madhya Pradesh, India. <i>Atmospheric Research</i> , <b>2013</b> , 122, 136-149	5.4	184
114	Modeling of daily pan evaporation in sub tropical climates using ANN, LS-SVR, Fuzzy Logic, and ANFIS. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 5267-5276	7.8	182
113	Physically based soil erosion and sediment yield models revisited. <i>Catena</i> , <b>2016</b> , 147, 595-620	5.8	123
112	Prioritizing erosion-prone area through morphometric analysis: an RS and GIS perspective. <i>Applied Water Science</i> , <b>2014</b> , 4, 51-61	5	90
111	Runoff and sediment yield modeling from a small agricultural watershed in India using the WEPP model. <i>Journal of Hydrology</i> , <b>2008</b> , 348, 305-319	6	83
110	Soil erosion modeling of a Himalayan watershed using RS and GIS. <i>Environmental Earth Sciences</i> , <b>2009</b> , 59, 399-410	2.9	68
109	Analysing trends in reference evapotranspiration and weather variables in the Tons River Basin in Central India. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2013</b> , 27, 1407-1421	3.5	62
108	Landslide Hazard Zonation using Remote Sensing and GIS: a case study of Dikrong river basin, Arunachal Pradesh, India. <i>Environmental Geology</i> , <b>2008</b> , 54, 1517-1529		58
107	Integrating Hydro-Meteorological and Physiographic Factors for Assessment of Vulnerability to Drought. <i>Water Resources Management</i> , <b>2010</b> , 24, 4199-4217	3.7	56
106	Long-term historic changes in climatic variables of Betwa Basin, India. <i>Theoretical and Applied Climatology</i> , <b>2014</b> , 117, 403-418	3	48
105	Remote sensing and GIS for identification of suitable sites for soil and water conservation structures. <i>Land Degradation and Development</i> , <b>2011</b> , 22, 359-372	4.4	48
104	Evaluation of best management practices for sediment and nutrient loss control using SWAT model. <i>Soil and Tillage Research</i> , <b>2019</b> , 192, 42-58	6.5	46
103	Daily suspended sediment simulation using machine learning approach. <i>Catena</i> , <b>2016</b> , 138, 77-90	5.8	45
102	Modelling spatiotemporal land dynamics for a trans-boundary river basin using integrated Cellular Automata and Markov Chain approach. <i>Applied Geography</i> , <b>2017</b> , 82, 11-23	4.4	41
101	Application of the WEPP model for prioritization and evaluation of best management practices in an Indian watershed. <i>Hydrological Processes</i> , <b>2009</b> , 23, 2997-3005	3.3	41

100	Evaluation of the SWAT model for water balance study of a mountainous snowfed river basin of Nepal. <i>Environmental Earth Sciences</i> , <b>2018</b> , 77, 1	2.9	40
99	Statistical downscaling of temperature using three techniques in the Tons River basin in Central India. <i>Theoretical and Applied Climatology</i> , <b>2015</b> , 121, 605-622	3	40
98	Assessing the applicability of TMPA-3B42V7 precipitation dataset in wavelet-support vector machine approach for suspended sediment load prediction. <i>Journal of Hydrology</i> , <b>2017</b> , 550, 103-117	6	39
97	Evaluation of the Soil Conservation Service curve number methodology using data from agricultural plots. <i>Hydrogeology Journal</i> , <b>2017</b> , 25, 151-167	3.1	39
96	Spatial and temporal variability in maximum, minimum and mean air temperatures at Madhya Pradesh in central India. <i>Comptes Rendus - Geoscience</i> , <b>2013</b> , 345, 3-21	1.4	36
95	Application of SWAT in an Indian river basin for modeling runoff, sediment and water balance. <i>Environmental Earth Sciences</i> , <b>2017</b> , 76, 1	2.9	33
94	Relationship between SCS-CN and Sediment Yield. <i>Applied Water Science</i> , <b>2014</b> , 4, 363-370	5	33
93	Climate change impact on forest cover and vegetation in Betwa Basin, India. <i>Applied Water Science</i> , <b>2017</b> , 7, 103-114	5	31
92	Modelling of runoff and sediment yield using ANN, LS-SVR, REPTree and M5 models <b>2017</b> , 48, 1489-1507		31
91	Experimental Verification of the Effect of Slope and Land Use on SCS Runoff Curve Number. <i>Water Resources Management</i> , <b>2014</b> , 28, 3407-3416	3.7	31
90	Simplified sediment yield index model incorporating parameter curve number. <i>Arabian Journal of Geosciences</i> , <b>2015</b> , 8, 1993-2004	1.8	30
89	Application of semi-distributed hydrological model for basin level water balance of the Ken basin of Central India. <i>Hydrological Processes</i> , <b>2014</b> , 28, 4119-4129	3.3	30
88	Sediment yield modelling of an agricultural watershed using MUSLE, remote sensing and GIS. <i>Paddy and Water Environment</i> , <b>2009</b> , 7, 105-113	1.6	28
87	Physical verification of the effect of land features and antecedent moisture on runoff curve number. <i>Catena</i> , <b>2015</b> , 133, 318-327	5.8	25
86	Estimation of design runoff curve numbers for Narmada watersheds (India). <i>Journal of Applied Water Engineering and Research</i> , <b>2013</b> , 1, 69-79	1.2	24
85	Hydrologic Evaluation of the TMPA-3B42V7 Precipitation Data Set over an Agricultural Watershed Using the SWAT Model. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2018</b> , 23, 05018003	1.8	23
84	Assessment of hydropower potential using spatial technology and SWAT modelling in the Mat River, southern Mizoram, India. <i>Hydrological Sciences Journal</i> , <b>2015</b> , 60, 1651-1665	3.5	23
83	SIMULATION AND OPTIMIZATION FOR IRRIGATION AND CROP PLANNING. <i>Irrigation and Drainage</i> , <b>2012</b> , 61, 178-188	1.1	20

82	Assessment of reservoir sedimentation using remote sensing and recommendations for desilting Patratu Reservoir, India. <i>Hydrological Sciences Journal</i> , <b>2016</b> , 61, 711-718	3.5	19
81	Ensemble Wavelet-Support Vector Machine Approach for Prediction of Suspended Sediment Load Using Hydrometeorological Data. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2017</b> , 22, 05017006	1.8	19
80	A detailed assessment of meteorological drought characteristics using simplified rainfall index over Narmada River Basin, India. <i>Environmental Earth Sciences</i> , <b>2021</b> , 80, 1	2.9	19
79	Hydrological simulation of the Betwa River basin (India) using the SWAT model. <i>Hydrological Sciences Journal</i> , <b>2017</b> , 62, 960-978	3.5	18
78	Hypsometric analysis of Shakkar river catchment through geographical information system. <i>Journal of the Geological Society of India</i> , <b>2014</b> , 84, 192-196	1.3	16
77	Development of ARIMA Model for Monthly Rainfall Forecasting over an Indian River Basin <b>2019</b> ,		15
76	Special Issue on Soil Conservation Service Curve Number (SCS-CN) Methodology. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2012</b> , 17, 1157-1157	1.8	14
75	Assessment of meteorological droughts over Hoshangabad district, India. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 491, 012012	0.3	14
74	Evaluation of TRMM multi-satellite precipitation analysis (TMPA) against terrestrial measurement over a humid sub-tropical basin, India. <i>Theoretical and Applied Climatology</i> , <b>2017</b> , 129, 783-799	3	11
73	Modeling Suspended Sediment Using Artificial Neural Networks and TRMM-3B42 Version 7 Rainfall Dataset. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2015</b> , 20,	1.8	11
72	Evaluation of effective management plan for an agricultural watershed using AVSWAT model, remote sensing and GIS. <i>Environmental Geology</i> , <b>2009</b> , 56, 993-1008		11
71	RS and Geographical Information System Based Evaluation of Distributed and Composite Curve Number Techniques. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2012</b> , 17, 1278-1286	1.8	10
70	Estimation of runoff for hilly catchment using satellite data <b>2004</b> , 32, 235-240		10
69	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> , <b>2021</b> , 14, 117862212110213	3.3	10
68	Trend Analysis of Precipitation and Temperature for Bilaspur District, Chhattisgarh, India <b>2019</b> ,		9
67	Assessing future water-sediment interaction and critical area prioritization at sub-watershed level for sustainable management. <i>Paddy and Water Environment</i> , <b>2019</b> , 17, 373-382	1.6	9
66	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> , <b>2005</b> , 26, 4445-4454	3.1	9
65	Identification of Meteorological Extreme Years Over Central Division of Odisha Using an Index-Based Approach. <i>Water Science and Technology Library</i> , <b>2021</b> , 161-174	0.3	9

64	Assessment of Hydrological Drought Vulnerability using Geospatial Techniques in the Tons River Basin, India <b>2021</b> , 49, 2623		9
63	Evaluation of TRMM-Precipitation with Rain-Gauge Observation Using Hydrological Model J2000. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2017</b> , 22,	1.8	8
62	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> , <b>2022</b> , 12, 1	5	8
61	Soil Erosion Modeling Using Satellite Rainfall Estimates. <i>Journal of Water Resource and Hydraulic Engineering</i> , <b>2015</b> , 4, 318-325		8
60	Streamflow estimation using satellite-retrieved water fluxes and machine learning technique over monsoon-dominated catchments of India. <i>Hydrological Sciences Journal</i> , <b>2021</b> , 66, 656-671	3.5	8
59	A Framework for Managing Irrigation Water Requirements under Climatic Uncertainties over Beed District, Maharashtra, India <b>2020</b> ,		7
58	Modelling of wetting pattern under trickle source in sandy soil of Nirjuli, Arunachal Pradesh (India). <i>Irrigation Science</i> , <b>2012</b> , 30, 287-292	3.1	7
57	Water Quality Assessment of Upper Ganga Canal for Human Drinking. <i>Water Science and Technology Library</i> , <b>2021</b> , 371-392	0.3	6
56	Spatiotemporal assessment of precipitation variability, seasonality, and extreme characteristics over a Himalayan catchment. <i>Theoretical and Applied Climatology</i> ,1	3	6
55	Uncertainty Assessment in Soil Erosion Modelling Using RUSLE, Multisource and Multiresolution DEMs <b>2021</b> , 49, 1689-1707		6
54	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> , <b>2021</b> , 66, 102573	4.5	5
53	Mapping Punjab Flood using Multi-temporal Open-Access Synthetic Aperture Radar Data in Google Earth Engine. <i>Water Science and Technology Library</i> , <b>2021</b> , 75-85	0.3	5
52	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> , <b>2018</b> , 11, 1	1.8	4
51	Assessing Contributions of Intensity-based Rainfall Classes to Annual Rainfall and Wet Days over Tehri Catchment, India. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 113-121	0.3	4
50	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
49	Assessment of heavy metal contamination in livestock drinking water of Upper Ganga Canal (Roorkee City, India). <i>Arabian Journal of Geosciences</i> , <b>2021</b> , 14, 1	1.8	4
48	Special Issue on Soil Erosion and Sediment Yield Modeling. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2015</b> , 20,	1.8	3
47	<b>2013</b> ,		3

46	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
45	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
44	GIS based graphical user interface for irrigation management. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 1536-1551	1.4	3
43	Evaluation of Satellite-Based Precipitation Estimates over an Agricultural Watershed of India 2018,		3
42	Long Term Historic Changes of Precipitation and Aridity Index over an Indian River Basin 2018,		3
41	Stochastic Modelling of Rainfall in Humid Region of North East India. <i>Water Resources Management</i> , 2008, 22, 1395-1407	3-7	2
40	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
39	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
38	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
37	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
36	Identification of Flood and Drought Years over the Northeast Indian Region Using Normalized Index 2020,		1
35	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
34	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
33	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
32	Water Quality and Human Health. <i>Water Science and Technology Library</i> , 2021, 331-369	0.3	1
31	SNOWMELT RUNOFF MODELING AND IMPACT OF CLIMATE CHANGE IN THE HIMALAYAN RIVER BASIN 2016,		1
30	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
29	Overview of Geospatial Technologies for Land and Water Resources Management. <i>Water Science and Technology Library</i> , 2022, 1-16	0.3	1

28	Performance Evaluation of SM2RAIN-ASCAT Rainfall Product Over an Agricultural Watershed of India. <i>Water Science and Technology Library</i> , <b>2022</b> , 223-236	0.3	1
27	Application of Remote Sensing and GIS in Crop Yield Forecasting and Water Productivity. <i>Water Science and Technology Library</i> , <b>2022</b> , 207-222	0.3	1
26	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
25	Exploring recent groundwater level changes using Innovative Trend Analysis (ITA) technique over three districts of Jharkhand, India. <i>Groundwater for Sustainable Development</i> , <b>2022</b> , 18, 100783	6	1
24	Effectiveness of Best Management Practices on Dependable Flows in a River Basin Using Hydrological SWAT Model. <i>Water Science and Technology Library</i> , <b>2021</b> , 335-348	0.3	0
23	Research Needs for Stream Power Moderation in Hilly Torrents for Disaster Mitigation. <i>Water Science and Technology Library</i> , <b>2021</b> , 185-201	0.3	0
22	Development of A Spatial Decision System for Irrigation Management1		0
21	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> , <b>2022</b> , 237-254	0.3	0
20	Runoff Curve Number for 36 Small Agricultural Plots at Two Different Climatic Conditions in India. <i>Water Science and Technology Library</i> , <b>2017</b> , 255-269	0.3	
19	Integrated Water Resources Management of Ken-Betwa Link <b>2017</b> , 849-873		
18	Water Quality Status of Upper Ganga Canal. <i>Water Science and Technology Library</i> , <b>2021</b> , 21-34	0.3	
17	Hydrological Modeling of West Rapti River Basin of Nepal Using SWAT Model. <i>Water Science and Technology Library</i> , <b>2021</b> , 279-302	0.3	
16	Revisiting the Antecedent Moisture Content-Based Curve Number Formulae. <i>Water Science and Technology Library</i> , <b>2021</b> , 317-334	0.3	
15	Performance Evaluation of a Rainfall Simulator in Laboratory. <i>Water Science and Technology Library</i> , <b>2021</b> , 375-391	0.3	
14	Reference Crop Evapotranspiration Estimation Using Remote Sensing Technique. <i>Water Science and Technology Library</i> , <b>2021</b> , 91-111	0.3	
13	Assessing Irrigation Water Requirement and Its Trend for Betwa River Basin, India. <i>Water Science and Technology Library</i> , <b>2021</b> , 113-133	0.3	
12	Review of Flow Simulation Methods in Alluvial River. <i>Water Science and Technology Library</i> , <b>2021</b> , 289-306.3		
11	Analysis of Climate Variability in a Part of Brahmaputra River Basin in India <b>2017</b> , 113-142		

10	Distributed Hydrological Modelling Under Hypothetical Climate Change Scenario for a Sub-basin of the Brahmaputra River <b>2017</b> , 219-247	
9	Revisiting the useful life computation of Gobindsagar (Bhakra) reservoir. <i>ISH Journal of Hydraulic Engineering</i> , <b>2016</b> , 22, 115-123	1.5
8	Role of Geospatial Technology for Enhancement of Field Water Use Efficiency. <i>Water Science and Technology Library</i> , <b>2022</b> , 173-184	0.3
7	Morphometric Characterization and Flash Flood Zonation of a Mountainous Catchment Using Weighted Sum Approach. <i>Water Science and Technology Library</i> , <b>2022</b> , 409-428	0.3
6	Performance Evaluation of a Minor of Upper Ganga Canal System Using Geospatial Technology and Secondary Data. <i>Water Science and Technology Library</i> , <b>2022</b> , 155-172	0.3
5	Application of Active Space-Borne Microwave Remote Sensing in Flood Hazard Management. <i>Water Science and Technology Library</i> , <b>2022</b> , 457-482	0.3
4	Appraisal of Land Use/Land Cover Change Over Tehri Catchment Using Remote Sensing and GIS. <i>Water Science and Technology Library</i> , <b>2022</b> , 37-51	0.3
3	Hydrological Change Detection Mapping and Monitoring of Ramganga Reservoir, Pauri Gharwal, Uttarakhand, Using Geospatial Technique. <i>Water Science and Technology Library</i> , <b>2022</b> , 365-389	0.3
2	Land Use Land Cover Change Detection of the Tons River Basin Using Remote Sensing and GIS. <i>Water Science and Technology Library</i> , <b>2022</b> , 53-65	0.3
1	Space-Borne Scatterometers for Understanding the Large-Scale Land Hydrological Processes. <i>Water Science and Technology Library</i> , <b>2022</b> , 97-121	0.3