

Manish Kumar Goyal

List of Publications by Citations

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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.

116 papers	2,186 citations	29 h-index	41 g-index
117 ext. papers	2,731 ext. citations	3.7 avg, IF	6.22 L-index

#	Paper	IF	Citations
116	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
115	Modeling of Sediment Yield Prediction Using M5 Model Tree Algorithm and Wavelet Regression. <i>Water Resources Management</i> , 2014 , 28, 1991-2003	3.7	67
114	Statistical Analysis of Long Term Trends of Rainfall During 1901-2002 at Assam, India. <i>Water Resources Management</i> , 2014 , 28, 1501-1515	3.7	66
113	Modeling of Suspended Sediment Concentration at Kasol in India Using ANN, Fuzzy Logic, and Decision Tree Algorithms. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 394-404	1.8	66
112	Analysis and trends of precipitation lapse rate and extreme indices over north Sikkim eastern Himalayas under CMIP5ESM-2M RCPs experiments. <i>Atmospheric Research</i> , 2016 , 167, 34-60	5.4	60
111	Estimation of Scour Downstream of a Ski-Jump Bucket Using Support Vector and M5 Model Tree. <i>Water Resources Management</i> , 2011 , 25, 2177-2195	3.7	59
110	Application of ANN, Fuzzy Logic and Decision Tree Algorithms for the Development of Reservoir Operating Rules. <i>Water Resources Management</i> , 2013 , 27, 911-925	3.7	53
109	Non-stationary and copula-based approach to assess the drought characteristics encompassing climate indices over the Himalayan states in India. <i>Journal of Hydrology</i> , 2020 , 580, 124356	6	53
108	Impact of climate change on floods in the Brahmaputra basin using CMIP5 decadal predictions. <i>Journal of Hydrology</i> , 2015 , 527, 281-291	6	52
107	Air quality modelling using long short-term memory (LSTM) over NCT-Delhi, India. <i>Air Quality, Atmosphere and Health</i> , 2019 , 12, 899-908	5.6	50
106	Treatment of baseflow from an urban catchment by a floating wetland system. <i>Ecological Engineering</i> , 2012 , 49, 170-180	3.9	49
105	Identification of Homogeneous Rainfall Regimes in Northeast Region of India using Fuzzy Cluster Analysis. <i>Water Resources Management</i> , 2014 , 28, 4491-4511	3.7	48
104	Probabilistic evaluation of vegetation drought likelihood and its implications to resilience across India. <i>Global and Planetary Change</i> , 2019 , 176, 23-35	4.2	47
103	Fate of pharmaceutical compounds in hydroponic mesocosms planted with <i>Scirpus validus</i> . <i>Environmental Pollution</i> , 2013 , 181, 98-106	9.3	47
102	Impact of Climate Change on Water Resources in India. <i>Journal of Environmental Engineering, ASCE</i> , 2018 , 144, 04018054	2	45
101	Development of stage-discharge rating curve using model tree and neural networks: An application to Peachtree Creek in Atlanta. <i>Expert Systems With Applications</i> , 2012 , 39, 5702-5710	7.8	45
100	A novel framework for risk assessment and resilience of critical infrastructure towards climate change. <i>Technological Forecasting and Social Change</i> , 2021 , 165, 120532	9.5	44

99	Downscaling of surface temperature for lake catchment in an arid region in India using linear multiple regression and neural networks. <i>International Journal of Climatology</i> , 2012 , 32, 552-566	3.5	41
98	Analysis of the change in temperature trends in Subansiri River basin for RCP scenarios using CMIP5 datasets. <i>Theoretical and Applied Climatology</i> , 2017 , 129, 1175-1187	3	38
97	Glacial Lake Outburst Flood Hazard, Downstream Impact, and Risk Over the Indian Himalayas. <i>Water Resources Research</i> , 2020 , 56, e2019WR026533	5.4	38
96	District-level assessment of the ecohydrological resilience to hydroclimatic disturbances and its controlling factors in India. <i>Journal of Hydrology</i> , 2018 , 564, 1048-1057	6	38
95	Copula-based probabilistic characterization of precipitation extremes over North Sikkim Himalaya. <i>Atmospheric Research</i> , 2018 , 212, 273-284	5.4	36
94	Assessment of ecosystem resilience to hydroclimatic disturbances in India. <i>Global Change Biology</i> , 2018 , 24, e432-e441	11.4	35
93	Monthly rainfall prediction using wavelet regression and neural network: an analysis of 1901-2002 data, Assam, India. <i>Theoretical and Applied Climatology</i> , 2014 , 118, 25-34	3	35
92	Nonparametric Statistical Downscaling of Temperature, Precipitation, and Evaporation in a Semiarid Region in India. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 615-627	1.8	34
91	Predicting time-dependent pier scour depth with support vector regression. <i>Journal of Hydrology</i> , 2012 , 468-469, 241-248	6	34
90	Support vector regression model of wastewater bioreactor performance using microbial community diversity indices: effect of stress and bioaugmentation. <i>Water Research</i> , 2014 , 53, 282-96	12.5	31
89	Evaluation of linear regression methods as downscaling tools in temperature projections over the Pichola Lake Basin in India. <i>Hydrological Processes</i> , 2011 , 25, 1453-1465	3.3	30
88	Downscaling of precipitation on a lake basin: evaluation of rule and decision tree induction algorithms 2012 , 43, 215-230		29
87	Copula based analysis of meteorological, hydrological and agricultural drought characteristics across Indian river basins. <i>International Journal of Climatology</i> , 2021 , 41, 4637	3.5	28
86	Assessment of the impacts of climatic variability and anthropogenic stress on hydrologic resilience to warming shifts in Peninsular India. <i>Scientific Reports</i> , 2018 , 8, 13833	4.9	27
85	Assessment of drought trend and variability in India using wavelet transform. <i>Hydrological Sciences Journal</i> , 2020 , 65, 1539-1554	3.5	25
84	Assessment of the changes in precipitation and temperature in Teesta River basin in Indian Himalayan Region under climate change. <i>Atmospheric Research</i> , 2020 , 231, 104670	5.4	25
83	Prediction of soil organic carbon stock using digital mapping approach in humid India. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	24
82	Drought occurrence in Different River Basins of India and blockchain technology based framework for disaster management. <i>Journal of Cleaner Production</i> , 2021 , 312, 127737	10.3	24

81	Applying Fuzzy logic and the point count system to select landfill sites. <i>Environmental Monitoring and Assessment</i> , 2007 , 135, 99-106	3.1	23
80	On the relationship of climatic and monsoon teleconnections with monthly precipitation over meteorologically homogenous regions in India: Wavelet & global coherence approaches. <i>Atmospheric Research</i> , 2020 , 238, 104889	5.4	22
79	Understanding the climate change impact on crop yield over Eastern Himalayan Region: ascertaining GCM and scenario uncertainty. <i>Theoretical and Applied Climatology</i> , 2020 , 142, 467-482	3	22
78	Projection of hydro-climatological changes over eastern Himalayan catchment by the evaluation of RegCM4 RCM and CMIP5 GCM models 2019 , 50, 117-137		22
77	Comparative Assessment of SWAT Model Performance in two Distinct Catchments under Various DEM Scenarios of Varying Resolution, Sources and Resampling Methods. <i>Water Resources Management</i> , 2018 , 32, 805-825	3.7	22
76	Evaluation of machine learning tools as a statistical downscaling tool: temperatures projections for multi-stations for Thames River Basin, Canada. <i>Theoretical and Applied Climatology</i> , 2012 , 108, 519-534	3	21
75	A fuzzy c-means approach regionalization for analysis of meteorological drought homogeneous regions in western India. <i>Natural Hazards</i> , 2016 , 84, 1831-1847	3	20
74	Diagnosing climate change impacts and identifying adaptation strategies by involving key stakeholder organisations and farmers in Sikkim, India: Challenges and opportunities. <i>Science of the Total Environment</i> , 2018 , 626, 468-477	10.2	19
73	Influences of watershed characteristics on long-term annual and intra-annual water balances over India. <i>Journal of Hydrology</i> , 2019 , 577, 123970	6	17
72	Spatio-temporal heterogeneity and changes in extreme precipitation over eastern Himalayan catchments India. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 2527-2546	3.5	17
71	Application of artificial neural network, fuzzy logic and decision tree algorithms for modelling of streamflow at Kasol in India. <i>Water Science and Technology</i> , 2013 , 68, 2521-6	2.2	17
70	Assessment of Risk and Resilience of Terrestrial Ecosystem Productivity under the Influence of Extreme Climatic Conditions over India. <i>Scientific Reports</i> , 2019 , 9, 18923	4.9	16
69	Geospatial and hydrological modeling to assess hydropower potential zones and site location over rainfall dependent Inland catchment. <i>Water Resources Management</i> , 2015 , 29, 2875-2894	3.7	15
68	Spatiotemporal and joint probability behavior of temperature extremes over the Himalayan region under changing climate. <i>Theoretical and Applied Climatology</i> , 2018 , 134, 477-498	3	15
67	Analysing model disparity in diagnosing the climatic and human stresses on runoff variability over India. <i>Journal of Hydrology</i> , 2020 , 581, 124407	6	14
66	Impact of climate change on crop water and irrigation requirements over eastern Himalayan region. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 1175-1188	3.5	13
65	Assessment of spatially explicit annual water-balance model for Sutlej River Basin in eastern Himalayas and Tungabhadra River Basin in peninsular India 2017 , 48, 542-558		12
64	Robust weighted regression as a downscaling tool in temperature projections. <i>International Journal of Global Warming</i> , 2010 , 2, 234	0.6	12

63	Evaluation of Various Linear Regression Methods for Downscaling of Mean Monthly Precipitation in Arid Pichola Watershed. <i>Natural Resources</i> , 2010 , 01, 11-18	0.2	12
62	Changes in climate extremes by the use of CMIP5 coupled climate models over eastern Himalayas. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	12
61	Multicriteria Evaluation Approach for Assessing Parametric Uncertainty during Extreme Peak and Low Flow Conditions over Snow Glaciated and Inland Catchments. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 04015044	1.8	11
60	A novel analysis of COVID 19 risk in India incorporating climatic and socioeconomic Factors. <i>Technological Forecasting and Social Change</i> , 2021 , 167, 120679	9.5	11
59	Precipitation Simulation Based on k-Nearest Neighbor Approach Using Gamma Kernel. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 481-487	1.8	10
58	Joint behaviour of climate extremes across India: Past and future. <i>Journal of Hydrology</i> , 2021 , 597, 126185	10	
57	Assessment of future water provisioning and sediment load under climate and LULC change scenarios in a peninsular river basin, India. <i>Hydrological Sciences Journal</i> , 2019 , 64, 405-419	3.5	10
56	Low frequency global-scale modes and its influence on rainfall extremes over India: Nonstationary and uncertainty analysis. <i>International Journal of Climatology</i> , 2021 , 41, 1873-1888	3.5	10
55	Evaluation of Rule and Decision Tree Induction Algorithms for Generating Climate Change Scenarios for Temperature and Pan Evaporation on a Lake Basin. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 828-835	1.8	9
54	PLS regression-based pan evaporation and minimum-maximum temperature projections for an arid lake basin in India. <i>Theoretical and Applied Climatology</i> , 2011 , 105, 403-415	3	9
53	Statistical downscaling of temperatures under climate change scenarios for Thames river basin, Canada. <i>International Journal of Global Warming</i> , 2012 , 4, 13	0.6	9
52	An improved coupled framework for Glacier classification: an integration of optical and thermal infrared remote-sensing bands. <i>International Journal of Remote Sensing</i> , 2018 , 39, 6864-6892	3.1	9
51	Teesta River and Its Ecosystem. <i>Springer Hydrogeology</i> , 2018 , 537-551	0.4	8
50	Potential Assessment of Neural Network and Decision Tree Algorithms for Forecasting Ambient PM2.5 and CO Concentrations: Case Study. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2016 , 20,	2.3	7
49	Curve number modifications and parameterization sensitivity analysis for reducing model uncertainty in simulated and projected streamflows in a Himalayan catchment. <i>Ecological Engineering</i> , 2017 , 108, 17-29	3.9	7
48	Application of the Standardized Precipitation Index and Normalized Difference Vegetation Index for Evaluation of Irrigation Demands at Three Sites in Jamaica. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2013 , 139, 922-932	1.1	7
47	Hydrological Drought: Water Surface and Duration Curve Indices 2017 , 45-71		7
46	Prediction of flow rate of karstic springs using support vector machines. <i>Hydrological Sciences Journal</i> , 2017 , 62, 2175-2186	3.5	7

45	Analysis of Mean Monthly Rainfall Runoff Data of Indian Catchments Using Dimensionless Variables by Neural Network. <i>Journal of Environmental Protection</i> , 2010 , 01, 155-171	0.6	6
44	Application of PLS-Regression as Downscaling Tool for Pichola Lake Basin in India. <i>International Journal of Geosciences</i> , 2010 , 01, 51-57	0.4	6
43	Regional Carbon Fluxes from Land-Use Conversion and Land-Use Management in Northeast India. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2018 , 22, 04018016	2.3	6
42	Soil carbon and its associate resilience using big data analytics: For food Security and environmental management. <i>Technological Forecasting and Social Change</i> , 2021 , 169, 120823	9.5	6
41	Modeling and Prediction of Hourly Ambient Ozone (O ₃) and Oxides of Nitrogen (NO _x) Concentrations Using Artificial Neural Network and Decision Tree Algorithms for an Urban Intersection in India. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2016 , 20,	2.3	5
40	Spatial homogeneity of extreme precipitation indices using fuzzy clustering over northeast India. <i>Natural Hazards</i> , 2019 , 98, 559-574	3	5
39	Regional sustainable development of renewable natural resources using Net Primary Productivity on a global scale. <i>Ecological Indicators</i> , 2021 , 127, 107768	5.8	5
38	Unsteady High Velocity Flood Flows and the Development of Rating Curves in a Himalayan Basin under Climate Change Scenarios. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017 , 22, 04017023	1.8	4
37	Simulation of the Streamflow for the Rio Nuevo Watershed of Jamaica for Use in Agriculture Water Scarcity Planning. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2015 , 141, 04014056	1.1	4
36	Bayesian network model for monthly rainfall forecast 2015 ,		4
35	DETERMINING IRRIGATION REQUIREMENTS FOR VEGETABLES AND SUGARCANE IN JAMAICA. <i>Irrigation and Drainage</i> , 2014 , 63, 340-348	1.1	4
34	Terrestrial ecosystem response to flash droughts over India. <i>Journal of Hydrology</i> , 2022 , 605, 127402	6	4
33	An assessment of snow-glacier melt runoff under climate change scenarios in the Himalayan basin. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 2067-2092	3.5	4
32	Sustainability of Carbon Storage and Sequestration 2020 , 465-482		3
31	Challenges of Sustainability in Agricultural Management 2020 , 339-356		3
30	Regionalization of Drought Prediction 2017 , 253-278		3
29	Evaluation of precipitation datasets available on Google earth engine over India. <i>International Journal of Climatology</i> , 2021 , 41, 4844-4863	3.5	3
28	Phosphorus fate, transport and management on subsurface drained agricultural organic soils: a review. <i>Environmental Research Letters</i> , 2021 , 16, 013004	6.2	3

27	Effects of Land Use and Soil Management on Soil Quality in India's Northeastern Himalayas. <i>Journal of Environmental Engineering, ASCE</i> , 2019 , 145, 04019007	2	2
26	Remote Sensing and GIS Applications in Sustainability 2020 , 605-626		2
25	A Comparison of Three Soft Computing Techniques, Bayesian Regression, Support Vector Regression, and Wavelet Regression, for Monthly Rainfall Forecast. <i>Journal of Intelligent Systems</i> , 2017 , 26, 641-655	1.5	2
24	Discussion of Comparison of Multivariate Regression and Artificial Neural Networks for Peak Urban Water-Demand Forecasting: Evaluation of Different ANN Learning Algorithms by Jan Adamowski and Christina Karapatakis. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 833-834	1.8	2
23	Bayesian network for monthly rainfall forecast: a comparison of K2 and MCMC algorithm. <i>International Journal of Computers and Applications</i> , 2016 , 38, 199-206	0.8	2
22	Climate Change and Sustainable Water Resources Management. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2020 , 24, 02020001	2.3	1
21	Subansiri: Largest Tributary of Brahmaputra River, Northeast India. <i>Springer Hydrogeology</i> , 2018 , 523-535	5.4	1
20	Evaluation of soft computing algorithms for estimation of spatial transmissivity. <i>International Journal of Water</i> , 2015 , 9, 168	0.9	1
19	Sustainability of River Water Resources Under the Influence of Climate Change 2020 , 507-526		1
18	Soil Carbon Sequestration. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 30-54	0.4	1
17	Soil Carbon Sequestration 2017 , 188-212		1
16	Quantifying groundwater sensitivity and resilience over peninsular India. <i>Hydrological Processes</i> , 2020 , 34, 5327-5339	3.3	1
15	Current Trends and Projections of Water Resources Under Climate Change in Ganga River Basin. <i>Society of Earth Scientists Series</i> , 2021 , 233-256	0.6	1
14	Assessment of Hydroclimatological Changes in Eastern Himalayan River Catchment of Northeast India. <i>Journal of Hydrologic Engineering - ASCE</i> , 2021 , 26, 05021027	1.8	1
13	Relative Contribution of Climate Variables on Long-Term Runoff Using Budyko Framework. <i>Advances in Geographical and Environmental Sciences</i> , 2022 , 147-159	0.4	0
12	Impact of COVID-19 on Agro-Food Industry and Transitions Towards Food Security. <i>Disaster Resilience and Green Growth</i> , 2020 , 255-273	0.3	0
11	Climate change impact on precipitation extremes over Indian cities: Non-stationary analysis. <i>Technological Forecasting and Social Change</i> , 2022 , 180, 121685	9.5	0
10	Sustainable Systems for Groundwater Resource Management 2020 , 527-552		

- 9 Closure to Potential Assessment of Neural Network and Decision Tree Algorithms for Forecasting Ambient PM_{2.5} and CO Concentrations: Case Study By Chandrra Sekar, B. R. Gurjar, C. S. P. Ojha, and Manish Kumar Goyal. *Journal of Hazardous, Toxic, and Radioactive Waste*, **2017**, 21, 07017002 2.3
- 8 Discussion of BWAT-Based Evapotranspirative Water Conservation Analysis Performed on Irrigated Croplands to Determine Potential Regional Water Savings By Andrew Gayley. *Journal of Irrigation and Drainage Engineering - ASCE*, **2014**, 140, 07014005 1.1
- 7 Impact of Climate Change on Regionalization Using Fuzzy Clustering. *Advances in Intelligent Systems and Computing*, **2015**, 455-462 0.4
- 6 COVID 19 Threat and the Role of Human and Natural Factors. *Disaster Resilience and Green Growth*, **2020**, 87-103 0.3
- 5 Climate Change Adaptation for Sustainable Management of Water in India: Issues and Challenges **2020**, 439-463
- 4 Statistical Downscaling of Precipitation and Temperature for a Lake Basin **2013**, 219-250
- 3 Assessment of glacial lake development and downstream flood impacts of critical glacial lake. *Natural Hazards*, **2021**, 109, 1027-1046 3
- 2 Adapting to Climate Change: Water Management Strategy **2016**, 737-752
- 1 Water Harvesting, Climate Change, and Variability **2021**, 427-446