

Sharad Jain

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.

125
papers

3,277
citations

29
h-index

55
g-index

150
ext. papers

3,818
ext. citations

3.1
avg, IF

5.65
L-index

#	Paper	IF	Citations
125	Analysis of long-term rainfall trends in India. <i>Hydrological Sciences Journal</i> , 2010 , 55, 484-496	3.5	304
124	Application of ANN for Reservoir Inflow Prediction and Operation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1999 , 125, 263-271	2.8	222
123	Analysis of rainfall and temperature trends in northeast India. <i>International Journal of Climatology</i> , 2013 , 33, 968-978	3.5	191
122	Delineation of Flood-Prone Areas Using Remote Sensing Techniques. <i>Water Resources Management</i> , 2005 , 19, 333-347	3.7	164
121	Development of Integrated Sediment Rating Curves Using ANNs. <i>Journal of Hydraulic Engineering</i> , 2001 , 127, 30-37	1.8	159
120	Rainfall-runoff modelling using artificial neural networks: comparison of network types. <i>Hydrological Processes</i> , 2005 , 19, 1277-1291	3.3	151
119	Basin perspectives on the Water-Energy-Food Security Nexus. <i>Current Opinion in Environmental Sustainability</i> , 2013 , 5, 607-616	7.2	119
118	Fitting of Hydrologic Models: A Close Look at the Nash-Butcliffe Index. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 981-986	1.8	119
117	Trends in seasonal and annual rainfall and rainy days in Kashmir Valley in the last century. <i>Quaternary International</i> , 2010 , 212, 64-69	2	108
116	Models for estimating evapotranspiration using artificial neural networks, and their physical interpretation. <i>Hydrological Processes</i> , 2008 , 22, 2225-2234	3.3	104
115	Radial Basis Function Neural Network for Modeling Rating Curves. <i>Journal of Hydrologic Engineering - ASCE</i> , 2003 , 8, 161-164	1.8	102
114	Trends in rainfall amount and number of rainy days in river basins of India (1951-2004) 2011 , 42, 290-306		77
113	Rainfall-runoff modeling using conceptual, data driven, and wavelet based computing approach. <i>Journal of Hydrology</i> , 2013 , 493, 57-67	6	68
112	A Brief review of flood forecasting techniques and their applications. <i>International Journal of River Basin Management</i> , 2018 , 16, 329-344	1.7	64
111	Sediment yield estimation using GIS. <i>Hydrological Sciences Journal</i> , 1997 , 42, 833-843	3.5	62
110	Setting Up Stage-Discharge Relations Using ANN. <i>Journal of Hydrologic Engineering - ASCE</i> , 2000 , 5, 428-433		60
109	Risk and Reliability Analysis 2007 ,		54

108	Application of the SHE to catchments in India Part 2. Field experiments and simulation studies with the SHE on the Kolar subcatchment of the Narmada River. <i>Journal of Hydrology</i> , 1992 , 140, 25-47	6	54
107	Optimal Operation of a Multi-Purpose Reservoir Using Neuro-Fuzzy Technique. <i>Water Resources Management</i> , 2009 , 23, 509-529	3.7	51
106	Rainfall-runoff modeling through hybrid intelligent system. <i>Water Resources Research</i> , 2007 , 43,	5.4	51
105	Reliability, resilience and vulnerability of a multipurpose storage reservoir / Confiance, rilience et vulnabilit d'un barrage multi-objectifs. <i>Hydrological Sciences Journal</i> , 2008 , 53, 434-447	3.5	48
104	Water Resources Under Climate Change in Himalayan Basins. <i>Water Resources Management</i> , 2016 , 30, 843-859	3.7	42
103	Integrating a glacier retreat model into a hydrological model [Case studies of three glacierised catchments in Norway and Himalayan region. <i>Journal of Hydrology</i> , 2015 , 527, 656-667	6	40
102	A review of atmospheric and land surface processes with emphasis on flood generation in the Southern Himalayan rivers. <i>Science of the Total Environment</i> , 2016 , 556, 98-115	10.2	39
101	Environmental flows in India: towards sustainable water management. <i>Hydrological Sciences Journal</i> , 2014 , 59, 751-769	3.5	37
100	Analysis of Soil Water Retention Data Using Artificial Neural Networks. <i>Journal of Hydrologic Engineering - ASCE</i> , 2004 , 9, 415-420	1.8	37
99	Assessment of sediment deposition rate in Bargi Reservoir using digital image processing. <i>Hydrological Sciences Journal</i> , 2002 , 47, S81-S92	3.5	31
98	Assessment of Recent Glacier Changes and Its Controlling Factors from 1976 to 2011 in Baspa Basin, Western Himalaya. <i>Arctic, Antarctic, and Alpine Research</i> , 2017 , 49, 621-647	1.8	30
97	Reservoir Operation Studies of Sabarmati System, India. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1998 , 124, 31-37	2.8	29
96	Development of Integrated Discharge and Sediment Rating Relation Using a Compound Neural Network. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 124-131	1.8	27
95	Trends in Rainfall and Peak Flows for some River Basins in India. <i>Current Science</i> , 2017 , 112, 1712	2.2	25
94	A Simple Conceptual Model of Sediment Yield. <i>Water Resources Management</i> , 2010 , 24, 1697-1716	3.7	24
93	Analysis of a large inter-basin water transfer system in India / Analyse d'un grand systme de transfert d'eau inter-bassins en Inde. <i>Hydrological Sciences Journal</i> , 2005 , 50,	3.5	24
92	Trend and concentration characteristics of precipitation and related climatic teleconnections from 1982 to 2010 in the Beas River basin, India. <i>Global and Planetary Change</i> , 2016 , 145, 116-129	4.2	24
91	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

90	Modeling river stage–discharge–sediment rating relation using support vector regression 2012 , 43, 851-861		23
89	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment.. <i>Journal of Hazardous Materials Letters</i> , 2020 , 1, 100001	3.3	23
88	Validation of a new meteorological forcing data in analysis of spatial and temporal variability of precipitation in India. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 239-252	3.5	22
87	A RISK-BASED APPROACH FOR FLOOD CONTROL OPERATION OF A MULTIPURPOSE RESERVOIR1. <i>Journal of the American Water Resources Association</i> , 1992 , 28, 1037-1043	2.1	22
86	Water Resources Management in India—Challenges and the Way Forward. <i>Current Science</i> , 2019 , 117, 569	2.2	22
85	Twenty-first-century glacio-hydrological changes in the Himalayan headwater Beas River basin. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 1483-1503	5.5	20
84	Flood analysis using negative binomial and Generalized Pareto models in partial duration series (PDS). <i>Journal of Hydrology</i> , 2013 , 497, 121-132	6	19
83	One-dimensional hydrodynamic modeling of GLOF and impact on hydropower projects in Dhauliganga River using remote sensing and GIS applications. <i>Natural Hazards</i> , 2016 , 83, 1057-1075	3	18
82	Isotopes (^{18}O , ^2H and H) variations in groundwater with emphasis on salinization in the state of Punjab, India. <i>Science of the Total Environment</i> , 2021 , 789, 148051	10.2	18
81	Reviving the Ganges Water Machine: potential. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 1085-1101	5.5	17
80	Training of Artificial Neural Networks Using Information-Rich Data. <i>Hydrology</i> , 2014 , 1, 40-62	2.8	16
79	Investigating the behavior of statistical indices for performance assessment of a reservoir. <i>Journal of Hydrology</i> , 2010 , 391, 90-96	6	16
78	Estimation of Hydraulic Diffusivity in Stream-Aquifer System. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1999 , 125, 74-81	1.1	15
77	Assessment of environmental flow requirements. <i>Hydrological Processes</i> , 2012 , 26, 3472-3476	3.3	14
76	Reviving the Ganges Water Machine: Accelerating surface water and groundwater interactions in the Ramganga sub-basin. <i>Journal of Hydrology</i> , 2016 , 540, 207-219	6	12
75	Impact of global warming and climate change on social development. <i>Journal of Comparative Social Welfare</i> , 2010 , 26, 239-260		12
74	Inter-Basin Water Transfer 2007 , 1065-1109		11
73	Hydrologic modeling of a Himalayan mountain basin by using the SWAT mode		11

72	Calibration of conceptual models for rainfall-runoff simulation. <i>Hydrological Sciences Journal</i> , 1993 , 38, 431-441	3.5	10
71	Dynamic programming integrated particle swarm optimization algorithm for reservoir operation. <i>International Journal of Systems Assurance Engineering and Management</i> , 2020 , 11, 515-529	1.3	9
70	Genetic Algorithms and Their Applications to Water Resources Systems 2013 , 43-78		9
69	River flow forecasting through nonlinear local approximation in a fuzzy model. <i>Neural Computing and Applications</i> , 2014 , 25, 1951-1965	4.8	9
68	Comparing the stream re-aeration coefficient estimated from ANN and empirical models / Comparaison d'estimations par un RNA et par des modèles empiriques du coefficient de réaération en cours d'eau. <i>Hydrological Sciences Journal</i> , 2005 , 50,	3.5	9
67	Hydrology and water resources management in ancient India. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 4691-4707	5.5	8
66	Understanding Future Water Challenges in a Highly Regulated Indian River Basin Modelling the Impact of Climate Change on the Hydrology of the Upper Narmada. <i>Water (Switzerland)</i> , 2020 , 12, 1762	3	7
65	Simple Parameter Estimation Technique for Three-Parameter Generalized Extreme Value Distribution. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007 , 12, 682-689	1.8	7
64	Brahmaputra and Barak Basin 2007 , 419-472		7
63	Modelling runoff and sediment rate using a neuro-fuzzy technique. <i>Water Management</i> , 2011 , 164, 201-209		6
62	Indus Basin 2007 , 473-511		6
61	Observed Evidence for Steep Rise in the Extreme Flow of Western Himalayan Rivers. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087815	4.9	6
60	The Indian COSMOS Network (ICON): Validating L-Band Remote Sensing and Modelled Soil Moisture Data Products. <i>Remote Sensing</i> , 2021 , 13, 537	5	6
59	Attenuation of coda waves in the Garhwal Lesser Himalaya, India. <i>Journal of Seismology</i> , 2015 , 19, 355-369		5
58	Water crisis. <i>Journal of Comparative Social Welfare</i> , 2010 , 26, 215-237		5
57	Algorithms for Computerized Estimation of Thiessen Weights. <i>Journal of Computing in Civil Engineering</i> , 2009 , 23, 239-247	5	5
56	Export and import of virtual water from different states of India through food grain trade 2011 , 42, 229-238		5
55	Ganga Basin 2007 , 333-418		5

54	Hydrology of the Himalayas 2020 , 419-450		5
53	Water Balance Study for a Basin Integrating Remote Sensing Data and GIS 2011 , 39, 259-270		4
52	Tapi, Sabarmati and Mahi Basins 2007 , 561-595		4
51	Mahanadi, Subernarekha and Brahmani Basins 2007 , 597-639		4
50	Errors of kinematic wave and diffusion wave approximations for time-independent flows with infiltration and momentum exchange included. <i>Hydrological Processes</i> , 2005 , 19, 1771-1790	3.3	4
49	Reservoirs-Multipurpose382		4
48	Discussion of Investigating parameters of two-point hedging policy for operating a storage reservoir by Sharad K. Jain (2014). <i>ISH Journal of Hydraulic Engineering</i> , 2015 , 21, 312-314	1.5	3
47	Physical Environment of India 2007 , 3-62		3
46	Freshwater and its management in India. <i>International Journal of River Basin Management</i> , 2004 , 2, 259-270		3
45	Lightning paths in sky share similarities with channel networks on Earth. <i>Eos</i> , 2004 , 85, 249	1.5	3
44	Water Resources of India559		3
43	Impacts and Biases of Storm Regime and Sampling Networks on Extreme Precipitation Measurements across the Western Himalayas. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 04016034	1.8	2
42	Statistical performance indices for a hydropower reservoir 2009 , 40, 454-464		2
41	Cauvery and Pennar Basins 2007 , 701-741		2
40	Development of Optimal and Physically Realizable Unit Hydrograph. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006 , 11, 612-616	1.8	2
39	Krishna and Godavari Basins 2007 , 641-699		2
38	Possibility of Hydrological Connectivity between Manasarovar Lake and Gangotri Glacier. <i>Current Science</i> , 2019 , 116, 1062	2.2	2
37	Hydrological Cycles, Models and Applications to Forecasting 2017 , 1-28		2

36	Climate Change Pattern and its Effect on Hydrologic Cycle: A Review 2017 , 293-316		1
35	Developing Operation Procedures for Individual Reservoirs in a Large Multistate River Basin in Context of Tribunal Awards. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 05020013	2.8	1
34	Reference Climate and Water Data Networks for India. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 02515001	1.8	1
33	Discussion of Development of Optimal and Physically Realizable Unit Hydrograph by Sharad K. Jain, V. P. Singh, and P. K. Bhunya. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 527-528	1.8	1
32	Extending a Large-Scale Model to Better Represent Water Resources without Increasing the Model's Complexity. <i>Water (Switzerland)</i> , 2021 , 13, 3067	3	1
31	Providing water security in India by conserving and utilizing flood flows. <i>Water Security</i> , 2021 , 14, 100105.8	1.8	1
30	Isohyetal Method		1
29	An Analytical S-Curve Approach for SUH Derivation. <i>Water Science and Technology Library</i> , 2021 , 349-360.3	0.3	1
28	Hybrid approach for urban hilly catchment runoff modelling and prediction of pollutant loads. <i>Hydrological Sciences Journal</i> , 2020 , 65, 2535-2547	3.5	1
27	Spatio-temporal analysis of rainfall pattern in the Western Ghats region of India. <i>Meteorology and Atmospheric Physics</i> , 2021 , 133, 1089-1109	2	1
26	An assessment of water consumption patterns and land productivity and water productivity using WA+ framework and satellite data inputs. <i>Physics and Chemistry of the Earth</i> , 2021 , 103053	3	1
25	Quantification of Water Footprint of National Capital Territory (NCT) of Delhi, India. <i>Water Science and Technology Library</i> , 2018 , 151-165	0.3	1
24	Ganga River, India		1
23	Estimation of evapotranspiration in lesser Himalayas using remote sensing based surface energy balance algorithm. <i>Geocarto International</i> , 2020 , 1-19	2.7	0
22	Drivers and Social Context 2017 , 19-35		0
21	Discussion of Development of Integrated Sediment Rating Curves Using ANNs by Sharad Kumar Jain. <i>Journal of Hydraulic Engineering</i> , 2002 , 128, 870-871	1.8	0
20	Closure to Development of Integrated Sediment Rating Curves Using ANNs by Sharad Kumar Jain. <i>Journal of Hydraulic Engineering</i> , 2002 , 128, 871-871	1.8	0
19	Evolution of Water Management Practices in India 2022 , 325-349		0

18	Reservoir Sedimentation	408		0
17	Hydrological Cycles, Models, and Applications to Forecasting	2019, 311-339		0
16	Surface Water Resources. <i>World Water Resources</i> , 2021, 61-92		0.3	0
15	Major Challenges That Climate Change Will Bring to Hydrologists. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, 02520002		1.8	0
14	Examining evaporative demand and water availability in recent past for sustainable agricultural water management in India at sub-basin scale. <i>Journal of Cleaner Production</i> , 2022, 346, 130993		10.3	0
13	Reply to the Discussion by Irene Garousi-Nejad, Omid Bozorg Haddad, and Mahyar Aboutalebi on Investigating parameters of two-point hedging policy for operating a storage reservoir by Sharad K. Jain (2015) <i>ISH Journal of Hydraulic Engineering</i> , 2015, 21, 315-316		1.5	
12	Would Private Sector be Inclined to Take up Initiatives to Address Water Crisis in India?. <i>Vikalpa</i> , 2016, 41, 103-116		0.6	
11	Investigating parameters of two-point hedging policy for operating a storage reservoir. <i>ISH Journal of Hydraulic Engineering</i> , 2014, 20, 133-141		1.5	
10	Discussion of Drought Storage Allocation Rules for Surface Reservoir Systems by J. R. Lund. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008, 134, 487-488		2.8	
9	Closure to Development of Optimal and Physically Realizable Unit Hydrograph by Sharad K. Jain, V. P. Singh, and P. K. Bhunya. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 528-528		1.8	
8	Operation analysis of a reservoir in GIS environment using remote sensing inputs. <i>International Journal of Remote Sensing</i> , 2007, 28, 335-352		3.1	
7	Strategies for flood risk reduction in India. <i>ISH Journal of Hydraulic Engineering</i> , 1-10		1.5	
6	Environmental Flows and Their Assessment	2022, 3-20		
5	Hydroelectric Power	199		
4	Hydrologic Cycle	275		
3	Base Flow	22		
2	Research and Development in the Water Sector in India. <i>Springer Water</i> , 2019, 329-339		0.3	
1	Estimation of apparent thermal diffusivity of soil at lesser-Himalayan experimental catchment, Uttarakhand, India, for analytical subsoil temperature modelling. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1		1.8	

