

Sharad Jain

List of Publications by Year in descending order

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122
papers

4,574
citations

126858

33
h-index

110317

64
g-index

150
all docs

150
docs citations

150
times ranked

4339
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of long-term rainfall trends in India. Hydrological Sciences Journal, 2010, 55, 484-496.	1.2	460
2	Analysis of rainfall and temperature trends in northeast India. International Journal of Climatology, 2013, 33, 968-978.	1.5	281
3	Application of ANN for Reservoir Inflow Prediction and Operation. Journal of Water Resources Planning and Management - ASCE, 1999, 125, 263-271.	1.3	268
4	Delineation of Flood-Prone Areas Using Remote Sensing Techniques. Water Resources Management, 2005, 19, 333-347.	1.9	205
5	Development of Integrated Sediment Rating Curves Using ANNs. Journal of Hydraulic Engineering, 2001, 127, 30-37.	0.7	198
6	Rainfall-runoff modelling using artificial neural networks: comparison of network types. Hydrological Processes, 2005, 19, 1277-1291.	1.1	176
7	Basin perspectives on the Water-Energy-Food Security Nexus. Current Opinion in Environmental Sustainability, 2013, 5, 607-616.	3.1	161
8	Fitting of Hydrologic Models: A Close Look at the Nash-Sutcliffe Index. Journal of Hydrologic Engineering - ASCE, 2008, 13, 981-986.	0.8	152
9	Trends in seasonal and annual rainfall and rainy days in Kashmir Valley in the last century. Quaternary International, 2010, 212, 64-69.	0.7	136
10	A Brief review of flood forecasting techniques and their applications. International Journal of River Basin Management, 2018, 16, 329-344.	1.5	136
11	Models for estimating evapotranspiration using artificial neural networks, and their physical interpretation. Hydrological Processes, 2008, 22, 2225-2234.	1.1	127
12	Radial Basis Function Neural Network for Modeling Rating Curves. Journal of Hydrologic Engineering - ASCE, 2003, 8, 161-164.	0.8	125
13	Trends in rainfall amount and number of rainy days in river basins of India (1951-2004). Hydrology Research, 2011, 42, 290-306.	1.1	105
14	Rainfall-runoff modeling using conceptual, data driven, and wavelet based computing approach. Journal of Hydrology, 2013, 493, 57-67.	2.3	94
15	Sediment yield estimation using GIS. Hydrological Sciences Journal, 1997, 42, 833-843.	1.2	81
16	Setting Up Stage-Discharge Relations Using ANN. Journal of Hydrologic Engineering - ASCE, 2000, 5, 428-433.	0.8	75
17	Rainfall-runoff modeling through hybrid intelligent system. Water Resources Research, 2007, 43, .	1.7	67
18	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. Journal of Hydrology, 1992, 140, 25-47.	2.3	61

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19	Reliability, resilience and vulnerability of a multipurpose storage reservoir / Confiance, rÃ©silience et vulnÃ©rabilitÃ© d'un barrage multi-objectifs. Hydrological Sciences Journal, 2008, 53, 434-447.	1.2	59
20	Optimal Operation of a Multi-Purpose Reservoir Using Neuro-Fuzzy Technique. Water Resources Management, 2009, 23, 509-529.	1.9	57
21	A review of atmospheric and land surface processes with emphasis on flood generation in the Southern Himalayan rivers. Science of the Total Environment, 2016, 556, 98-115.	3.9	56
22	Integrating a glacier retreat model into a hydrological model â€” Case studies of three glacierised catchments in Norway and Himalayan region. Journal of Hydrology, 2015, 527, 656-667.	2.3	54
23	Water Resources Under Climate Change in Himalayan Basins. Water Resources Management, 2016, 30, 843-859.	1.9	54
24	Environmental flows in India: towards sustainable water management. Hydrological Sciences Journal, 2014, 59, 751-769.	1.2	53
25	Analysis of Soil Water Retention Data Using Artificial Neural Networks. Journal of Hydrologic Engineering - ASCE, 2004, 9, 415-420.	0.8	49
26	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment. Journal of Hazardous Materials Letters, 2020, 1, 100001.	2.0	49
27	Isotopes (^{18}O , ^{17}O and 3H) variations in groundwater with emphasis on salinization in the state of Punjab, India. Science of the Total Environment, 2021, 789, 148051.	3.9	49
28	Assessment of Recent Glacier Changes and Its Controlling Factors from 1976 to 2011 in Baspa Basin, Western Himalaya. Arctic, Antarctic, and Alpine Research, 2017, 49, 621-647.	0.4	45
29	Assessment of sediment deposition rate in Bargi Reservoir using digital image processing. Hydrological Sciences Journal, 2002, 47, S81-S92.	1.2	43
30	Reservoir Operation Studies of Sabarmati System, India. Journal of Water Resources Planning and Management - ASCE, 1998, 124, 31-37.	1.3	41
31	Trends in Rainfall and Peak Flows for some River Basins in India. Current Science, 2017, 112, 1712.	0.4	41
32	Assessment of hydropower potential using spatial technology and SWAT modelling in the Mat River, southern Mizoram, India. Hydrological Sciences Journal, 2015, 60, 1651-1665.	1.2	39
33	Water Resources Management in Indiaâ€”Challenges and the Way Forward. Current Science, 2019, 117, 569.	0.4	37
34	Development of Integrated Discharge and Sediment Rating Relation Using a Compound Neural Network. Journal of Hydrologic Engineering - ASCE, 2008, 13, 124-131.	0.8	35
35	Trend and concentration characteristics of precipitation and related climatic teleconnections from 1982 to 2010 in the Beas River basin, India. Global and Planetary Change, 2016, 145, 116-129.	1.6	35
36	Twenty-first-century glacio-hydrological changes in the Himalayan headwater Beas River basin. Hydrology and Earth System Sciences, 2019, 23, 1483-1503.	1.9	31

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37	A Simple Conceptual Model of Sediment Yield. <i>Water Resources Management</i> , 2010, 24, 1697-1716.	1.9	28
38	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.	1.6	28
39	Modeling river stageâ€“dischargeâ€“sediment rating relation using support vector regression. <i>Hydrology Research</i> , 2012, 43, 851-861.	1.1	26
40	Analysis of a large inter-basin water transfer system in India / Analyse dâ€™un grand systÃme de transfert dâ€™eau inter-bassins en Inde. <i>Hydrological Sciences Journal</i> , 2005, 50, .	1.2	25
41	A RISK-BASED APPROACH FOR FLOOD CONTROL OPERATION OF A MULTIPURPOSE RESERVOIR. <i>Journal of the American Water Resources Association</i> , 1992, 28, 1037-1043.	1.0	23
42	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.	1.9	23
43	Training of Artificial Neural Networks Using Information-Rich Data. <i>Hydrology</i> , 2014, 1, 40-62.	1.3	23
44	Investigating the behavior of statistical indices for performance assessment of a reservoir. <i>Journal of Hydrology</i> , 2010, 391, 90-96.	2.3	22
45	Flood analysis using negative binomial and Generalized Pareto models in partial duration series (PDS). <i>Journal of Hydrology</i> , 2013, 497, 121-132.	2.3	22
46	Assessment of environmental flow requirements. <i>Hydrological Processes</i> , 2012, 26, 3472-3476.	1.1	21
47	Hydrology of the Himalayas. , 2020, , 419-450.		21
48	Reviving the Ganges Water Machine: potential. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1085-1101.	1.9	20
49	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.	2.3	20
50	Observed Evidence for Steep Rise in the Extreme Flow of Western Himalayan Rivers. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087815.	1.5	20
51	Dynamic programming integrated particle swarm optimization algorithm for reservoir operation. <i>International Journal of Systems Assurance Engineering and Management</i> , 2020, 11, 515-529.	1.5	20
52	Hydrology and water resources management in ancient India. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4691-4707.	1.9	18
53	Impact of global warming and climate change on social development. <i>Journal of Comparative Social Welfare</i> , 2010, 26, 239-260.	0.3	17
54	Understanding Future Water Challenges in a Highly Regulated Indian River Basinâ€”Modelling the Impact of Climate Change on the Hydrology of the Upper Narmada. <i>Water (Switzerland)</i> , 2020, 12, 1762.	1.2	17

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55	Estimation of Hydraulic Diffusivity in Stream-Aquifer System. Journal of Irrigation and Drainage Engineering - ASCE, 1999, 125, 74-81.	0.6	16
56	Genetic Algorithms and Their Applications to Water Resources Systems. , 2013, , 43-78.		16
57	Spatio-temporal analysis of rainfall pattern in the Western Ghats region of India. Meteorology and Atmospheric Physics, 2021, 133, 1089-1109.	0.9	16
58	Inter-Basin Water Transfer. , 2007, , 1065-1109.		15
59	Calibration of conceptual models for rainfall-runoff simulation. Hydrological Sciences Journal, 1993, 38, 431-441.	1.2	12
60	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. Hydrological Sciences Journal, 2005, 50, .	1.2	12
61	An assessment of water consumption patterns and land productivity and water productivity using WA+ framework and satellite data inputs. Physics and Chemistry of the Earth, 2022, 126, 103053.	1.2	12
62	Hydrological Cycles, Models and Applications to Forecasting. , 2017, , 1-28.		12
63	The Indian COSMOS Network (ICON): Validating L-Band Remote Sensing and Modelled Soil Moisture Data Products. Remote Sensing, 2021, 13, 537.	1.8	11
64	River flow forecasting through nonlinear local approximation in a fuzzy model. Neural Computing and Applications, 2014, 25, 1951-1965.	3.2	10
65	Simple Parameter Estimation Technique for Three-Parameter Generalized Extreme Value Distribution. Journal of Hydrologic Engineering - ASCE, 2007, 12, 682-689.	0.8	9
66	Brahmaputra and Barak Basin. , 2007, , 419-472.		9
67	Algorithms for Computerized Estimation of Thiessen Weights. Journal of Computing in Civil Engineering, 2009, 23, 239-247.	2.5	9
68	Examining evaporative demand and water availability in recent past for sustainable agricultural water management in India at sub-basin scale. Journal of Cleaner Production, 2022, 346, 130993.	4.6	9
69	Water Balance Study for a Basin Integrating Remote Sensing Data and GIS. Journal of the Indian Society of Remote Sensing, 2011, 39, 259-270.	1.2	8
70	Tapi, Sabarmati and Mahi Basins. , 2007, , 561-595.		7
71	Ganga Basin. , 2007, , 333-418.		7
72	Indus Basin. , 2007, , 473-511.		7

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73	Water crisis. Journal of Comparative Social Welfare, 2010, 26, 215-237.	0.3	7
74	Export and import of virtual water from different states of India through food grain trade. Hydrology Research, 2011, 42, 229-238.	1.1	7
75	Modelling runoff and sediment rate using aneuro-fuzzy technique. Water Management, 2011, 164, 201-209.	0.4	7
76	Krishna and Godavari Basins. , 2007, , 641-699.		6
77	Mahanadi, Subernarekha and Brahmani Basins. , 2007, , 597-639.		6
78	Attenuation of coda waves in the Garhwal Lesser Himalaya, India. Journal of Seismology, 2015, 19, 355-369.	0.6	6
79	Lightning paths in sky share similarities with channel networks on Earth. Eos, 2004, 85, 249.	0.1	5
80	Errors of kinematic wave and diffusion wave approximations for time-independent flows with infiltration and momentum exchange included. Hydrological Processes, 2005, 19, 1771-1790.	1.1	5
81	Freshwater and its management in India. International Journal of River Basin Management, 2004, 2, 259-270.	1.5	4
82	Physical Environment of India. , 2007, , 3-62.		4
83	River Basins of India. , 2007, , 297-331.		4
84	Developing Operation Procedures for Individual Reservoirs in a Large Multistate River Basin in Context of Tribunal Awards. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	4
85	Extending a Large-Scale Model to Better Represent Water Resources without Increasing the Model's Complexity. Water (Switzerland), 2021, 13, 3067.	1.2	4
86	Water Quality and Related Aspects. , 2007, , 997-1033.		3
87	Statistical performance indices for a hydropower reservoir. Hydrology Research, 2009, 40, 454-464.	1.1	3
88	Discussion of "Investigating parameters of two-point hedging policy for operating a storage reservoir" by Sharad K. Jain (2014). ISH Journal of Hydraulic Engineering, 2015, 21, 312-314.	1.1	3
89	Impacts and Biases of Storm Regime and Sampling Networks on Extreme Precipitation Measurements across the Western Himalayas. Journal of Hydrologic Engineering - ASCE, 2016, 21, 04016034.	0.8	3
90	Estimation of evapotranspiration in lesser Himalayas using remote sensing based surface energy balance algorithm. Geocarto International, 2020, , 1-19.	1.7	3

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91	Providing water security in India by conserving and utilizing flood flows. Water Security, 2021, 14, 100105.	1.2	3
92	Strategies for flood risk reduction in India. ISH Journal of Hydraulic Engineering, 0, , 1-10.	1.1	3
93	Development of Optimal and Physically Realizable Unit Hydrograph. Journal of Hydrologic Engineering - ASCE, 2006, 11, 612-616.	0.8	2
94	Cauvery and Pennar Basins. , 2007, , 701-741.		2
95	Major Challenges That Climate Change Will Bring to Hydrologists. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	0.8	2
96	Possibility of Hydrological Connectivity between Manasarovar Lake and Gangotri Glacier. Current Science, 2019, 116, 1062.	0.4	2
97	Hydrological Cycles, Models, and Applications to Forecasting. , 2019, , 311-339.		2
98	Evolution of Water Management Practices in India. , 2022, , 325-349.		2
99	Discussion of "Development of Integrated Sediment Rating Curves Using ANNs" by Sharad Kumar Jain. Journal of Hydraulic Engineering, 2002, 128, 870-871.	0.7	1
100	Closure to "Development of Integrated Sediment Rating Curves Using ANNs" by Sharad Kumar Jain. Journal of Hydraulic Engineering, 2002, 128, 871-871.	0.7	1
101	Runoff and Streamflow. , 2007, , 193-234.		1
102	Narmada Basin. , 2007, , 513-559.		1
103	Other Basins and Islands. , 2007, , 743-795.		1
104	Discussion of "Development of Optimal and Physically Realizable Unit Hydrograph" by Sharad K. Jain, V. P. Singh, and P. K. Bhunya. Journal of Hydrologic Engineering - ASCE, 2008, 13, 527-528.	0.8	1
105	Scope, Possibility and Risks in Hydropower Development in the North East Region of India. Hydro Nepal: Journal of Water, Energy & Environment, 2012, 11, 18-24.	0.1	1
106	Reference Climate and Water Data Networks for India. Journal of Hydrologic Engineering - ASCE, 2015, 20, 02515001.	0.8	1
107	Would Private Sector be Inclined to Take up Initiatives to Address Water Crisis in India?. Vikalpa, 2016, 41, 103-116.	0.8	1
108	Climate Change Pattern and its Effect on Hydrologic Cycle: A Review. , 2017, , 293-316.		1

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109	Drivers and Social Context. , 2017, , 19-35.		1
110	Hybrid approach for urban hilly catchment runoff modelling and prediction of pollutant loads. Hydrological Sciences Journal, 2020, 65, 2535-2547.	1.2	1
111	An Analytical S-Curve Approach for SUH Derivation. Water Science and Technology Library, 2021, , 349-360.	0.2	1
112	Addressing Challenges of Mitigating Flood Risk in Mountain Areas. Eos, 2015, 96, .	0.1	1
113	Reservoirs and Lakes. , 2007, , 937-996.		0
114	Institutions in the Field of Hydrology and Water Resources. , 2007, , 1111-1154.		0
115	Evaporation and other Meteorological Data. , 2007, , 155-192.		0
116	Operation analysis of a reservoir in GIS environment using remote sensing inputs. International Journal of Remote Sensing, 2007, 28, 335-352.	1.3	0
117	Discussion of "Drought Storage Allocation Rules for Surface Reservoir Systems" by J. R. Lund. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 487-488.	1.3	0
118	Closure to "Development of Optimal and Physically Realizable Unit Hydrograph" by Sharad K. Jain, V. P. Singh, and P. K. Bhunya. Journal of Hydrologic Engineering - ASCE, 2008, 13, 528-528.	0.8	0
119	Investigating parameters of two-point hedging policy for operating a storage reservoir. ISH Journal of Hydraulic Engineering, 2014, 20, 133-141.	1.1	0
120	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)" ISH Journal of Hydraulic Engineering, 2015, 21, 315-316.	1.1	0
121	Estimation of apparent thermal diffusivity of soil at lesser-Himalayan experimental catchment, Uttarakhand, India, for analytical subsoil temperature modelling. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	0
122	Research and Development in the Water Sector in India. Springer Water, 2019, , 329-339.	0.2	0