Sharad Jain

List of Publications by Year in Descending Order

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	Environmental Flows and Their Assessment **2022**, 3-20		
124	Evolution of Water Management Practices in India **2022**, 325-349		0
123	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	10.3	0
122	Extending a Large-Scale Model to Better Represent Water Resources without Increasing the Model's Complexity. *Water (Switzerland)*, **2021**, 13, 3067	3	1
121	Providing water security in India by conserving and utilizing flood flows. *Water Security*, **2021**, 14, 100105	3.8	1
120	Surface Water Resources. *World Water Resources*, **2021**, 61-92	0.3	0
119	An Analytical S-Curve Approach for SUH Derivation. *Water Science and Technology Library*, **2021**, 349-360	0.3	1
118	Spatio-temporal analysis of rainfall pattern in the Western Ghats region of India. *Meteorology and Atmospheric Physics*, **2021**, 133, 1089-1109	2	1
117	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	1.8	
116	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*, **2021**, 103053	3	1
115	The Indian COSMOS Network (ICON): Validating L-Band Remote Sensing and Modelled Soil Moisture Data Products. *Remote Sensing*, **2021**, 13, 537	5	6
114	Isotopes ($\delta^{18}O$, δD and H) variations in groundwater with emphasis on salinization in the state of Punjab, India. *Science of the Total Environment*, **2021**, 789, 148051	10.2	18
113	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, 05020013	2.8	1
112	Estimation of evapotranspiration in lesser Himalayas using remote sensing based surface energy balance algorithm. *Geocarto International*, **2020**, 1-19	2.7	0
111	Understanding Future Water Challenges in a Highly Regulated Indian River Basin: Modelling the Impact of Climate Change on the Hydrology of the Upper Narmada. *Water (Switzerland)*, **2020**, 12, 1762	3	7
110	Dynamic programming integrated particle swarm optimization algorithm for reservoir operation. *International Journal of Systems Assurance Engineering and Management*, **2020**, 11, 515-529	1.3	9
109	Hydrology and water resources management in ancient India. *Hydrology and Earth System Sciences*, **2020**, 24, 4691-4707	5.5	8

108	Hydrology of the Himalayas **2020**, 419-450		5
107	Hybrid approach for urban hilly catchment runoff modelling and prediction of pollutant loads. *Hydrological Sciences Journal*, **2020**, 65, 2535-2547	3.5	1
106	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment.. *Journal of Hazardous Materials Letters*, **2020**, 1, 100001	3.3	23
105	Observed Evidence for Steep Rise in the Extreme Flow of Western Himalayan Rivers. *Geophysical Research Letters*, **2020**, 47, e2020GL087815	4.9	6
104	Major Challenges That Climate Change Will Bring to Hydrologists. *Journal of Hydrologic Engineering - ASCE*, **2020**, 25, 02520002	1.8	0
103	Twenty-first-century glacio-hydrological changes in the Himalayan headwater Beas River basin. *Hydrology and Earth System Sciences*, **2019**, 23, 1483-1503	5.5	20
102	Possibility of Hydrological Connectivity between Manasarovar Lake and Gangotri Glacier. *Current Science*, **2019**, 116, 1062	2.2	2
101	Water Resources Management in India Challenges and the Way Forward. *Current Science*, **2019**, 117, 569	2.2	22
100	Research and Development in the Water Sector in India. *Springer Water*, **2019**, 329-339	0.3	
99	Hydrological Cycles, Models, and Applications to Forecasting **2019**, 311-339		0
98	Quantification of Water Footprint of National Capital Territory (NCT) of Delhi, India. *Water Science and Technology Library*, **2018**, 151-165	0.3	1
97	A Brief review of flood forecasting techniques and their applications. *International Journal of River Basin Management*, **2018**, 16, 329-344	1.7	64
96	Climate Change Pattern and its Effect on Hydrologic Cycle: A Review **2017**, 293-316		1
95	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	1.8	30
94	Drivers and Social Context **2017**, 19-35		0
93	Trends in Rainfall and Peak Flows for some River Basins in India. *Current Science*, **2017**, 112, 1712	2.2	25
92	Hydrological Cycles, Models and Applications to Forecasting **2017**, 1-28		2
91	Would Private Sector be Inclined to Take up Initiatives to Address Water Crisis in India?. *Vikalpa*, **2016**, 41, 103-116	0.6	

90	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	1.8	2
89	Reviving the Ganges Water Machine: Accelerating surface water and groundwater interactions in the Ramganga sub-basin. *Journal of Hydrology*, **2016**, 540, 207-219	6	12
88	Water Resources Under Climate Change in Himalayan Basins. *Water Resources Management*, **2016**, 30, 843-859	3.7	42
87	Reviving the Ganges Water Machine: potential. *Hydrology and Earth System Sciences*, **2016**, 20, 1085-1101	5.5	17
86	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	10.2	39
85	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	4.2	24
84	One-dimensional hydrodynamic modeling of GLOF and impact on hydropower projects in Dhauliganga River using remote sensing and GIS applications. *Natural Hazards*, **2016**, 83, 1057-1075	3	18
83	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	1.5	
82	Attenuation of coda waves in the Garhwal Lesser Himalaya, India. *Journal of Seismology*, **2015**, 19, 355-369	1.5	5
81	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	1.5	3
80	Reference Climate and Water Data Networks for India. *Journal of Hydrologic Engineering - ASCE*, **2015**, 20, 02515001	1.8	1
79	Assessment of hydropower potential using spatial technology and SWAT modelling in the Mat River, southern Mizoram, India. *Hydrological Sciences Journal*, **2015**, 60, 1651-1665	3.5	23
78	Integrating a glacier retreat model into a hydrological model Case studies of three glacierised catchments in Norway and Himalayan region. *Journal of Hydrology*, **2015**, 527, 656-667	6	40
77	Environmental flows in India: towards sustainable water management. *Hydrological Sciences Journal*, **2014**, 59, 751-769	3.5	37
76	Investigating parameters of two-point hedging policy for operating a storage reservoir. *ISH Journal of Hydraulic Engineering*, **2014**, 20, 133-141	1.5	
75	Training of Artificial Neural Networks Using Information-Rich Data. *Hydrology*, **2014**, 1, 40-62	2.8	16
74	River flow forecasting through nonlinear local approximation in a fuzzy model. *Neural Computing and Applications*, **2014**, 25, 1951-1965	4.8	9
73	Validation of a new meteorological forcing data in analysis of spatial and temporal variability of precipitation in India. *Stochastic Environmental Research and Risk Assessment*, **2014**, 28, 239-252	3.5	22

72	Analysis of rainfall and temperature trends in northeast India. *International Journal of Climatology*, **2013**, 33, 968-978	3.5	191
71	Genetic Algorithms and Their Applications to Water Resources Systems **2013**, 43-78		9
70	Rainfall-runoff modeling using conceptual, data driven, and wavelet based computing approach. *Journal of Hydrology*, **2013**, 493, 57-67	6	68
69	Flood analysis using negative binomial and Generalized Pareto models in partial duration series (PDS). *Journal of Hydrology*, **2013**, 497, 121-132	6	19
68	Basin perspectives on the Water–Energy–Food Security Nexus. *Current Opinion in Environmental Sustainability*, **2013**, 5, 607-616	7.2	119
67	Assessment of environmental flow requirements. *Hydrological Processes*, **2012**, 26, 3472-3476	3.3	14
66	Modeling river stage–discharge–sediment rating relation using support vector regression **2012**, 43, 851-861		23
65	Water Balance Study for a Basin Integrating Remote Sensing Data and GIS **2011**, 39, 259-270		4
64	Trends in rainfall amount and number of rainy days in river basins of India (1951–2004) **2011**, 42, 290-306		77
63	Export and import of virtual water from different states of India through food grain trade **2011**, 42, 229-238		5
62	Modelling runoff and sediment rate using aneuro-fuzzy technique. *Water Management*, **2011**, 164, 201-209		6
61	Water crisis. *Journal of Comparative Social Welfare*, **2010**, 26, 215-237		5
60	Analysis of long-term rainfall trends in India. *Hydrological Sciences Journal*, **2010**, 55, 484-496	3.5	304
59	Impact of global warming and climate change on social development. *Journal of Comparative Social Welfare*, **2010**, 26, 239-260		12
58	Trends in seasonal and annual rainfall and rainy days in Kashmir Valley in the last century. *Quaternary International*, **2010**, 212, 64-69	2	108
57	A Simple Conceptual Model of Sediment Yield. *Water Resources Management*, **2010**, 24, 1697-1716	3.7	24
56	Investigating the behavior of statistical indices for performance assessment of a reservoir. *Journal of Hydrology*, **2010**, 391, 90-96	6	16
55	Statistical performance indices for a hydropower reservoir **2009**, 40, 454-464		2

54	Algorithms for Computerized Estimation of Thiessen Weights. *Journal of Computing in Civil Engineering*, **2009**, 23, 239-247	5	5
53	Optimal Operation of a Multi-Purpose Reservoir Using Neuro-Fuzzy Technique. *Water Resources Management*, **2009**, 23, 509-529	3.7	51
52	Reliability, resilience and vulnerability of a multipurpose storage reservoir / Confiance, résilience et vulnérabilité d'un barrage multi-objectifs. *Hydrological Sciences Journal*, **2008**, 53, 434-447	3.5	48
51	Fitting of Hydrologic Models: A Close Look at the Nash–Sutcliffe Index. *Journal of Hydrologic Engineering - ASCE*, **2008**, 13, 981-986	1.8	119
50	Development of Integrated Discharge and Sediment Rating Relation Using a Compound Neural Network. *Journal of Hydrologic Engineering - ASCE*, **2008**, 13, 124-131	1.8	27
49	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	1.8	1
48	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	2.8	
47	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	1.8	
46	Models for estimating evapotranspiration using artificial neural networks, and their physical interpretation. *Hydrological Processes*, **2008**, 22, 2225-2234	3.3	104
45	Operation analysis of a reservoir in GIS environment using remote sensing inputs. *International Journal of Remote Sensing*, **2007**, 28, 335-352	3.1	
44	Rainfall-runoff modeling through hybrid intelligent system. *Water Resources Research*, **2007**, 43,	5.4	51
43	Cauvery and Pennar Basins **2007**, 701-741		2
42	Krishna and Godavari Basins **2007**, 641-699		2
41	Simple Parameter Estimation Technique for Three-Parameter Generalized Extreme Value Distribution. *Journal of Hydrologic Engineering - ASCE*, **2007**, 12, 682-689	1.8	7
40	Tapi, Sabarmati and Mahi Basins **2007**, 561-595		4
39	Physical Environment of India **2007**, 3-62		3
38	Mahanadi, Subernarekha and Brahmani Basins **2007**, 597-639		4
37	Inter-Basin Water Transfer **2007**, 1065-1109		11

36	Ganga Basin **2007**, 333-418		5
35	Brahmaputra and Barak Basin **2007**, 419-472		7
34	Risk and Reliability Analysis **2007**,		54
33	Indus Basin **2007**, 473-511		6
32	Development of Optimal and Physically Realizable Unit Hydrograph. *Journal of Hydrologic Engineering - ASCE*, **2006**, 11, 612-616	1.8	2
31	Analysis of a large inter-basin water transfer system in India / Analyse d□n grand syst□me de transfert d□au inter-bassins en Inde. *Hydrological Sciences Journal*, **2005**, 50,	3.5	24
30	Rainfall-runoff modelling using artificial neural networks: comparison of network types. *Hydrological Processes*, **2005**, 19, 1277-1291	3.3	151
29	Errors of kinematic wave and diffusion wave approximations for time-independent flows with infiltration and momentum exchange included. *Hydrological Processes*, **2005**, 19, 1771-1790	3.3	4
28	Delineation of Flood-Prone Areas Using Remote Sensing Techniques. *Water Resources Management* , **2005**, 19, 333-347	3.7	164
27	Comparing the stream re-aeration coefficient estimated from ANN and empirical models / Comparaison d'estimations par un RNA et par des mod□□es empiriques du coefficient de r□□ation en cours d'eau. *Hydrological Sciences Journal*, **2005**, 50,	3.5	9
26	Analysis of Soil Water Retention Data Using Artificial Neural Networks. *Journal of Hydrologic Engineering - ASCE*, **2004**, 9, 415-420	1.8	37
25	Freshwater and its management in India. *International Journal of River Basin Management*, **2004**, 2, 259-270	1.9	3
24	Lightning paths in sky share similarities with channel networks on Earth. *Eos*, **2004**, 85, 249	1.5	3
23	Radial Basis Function Neural Network for Modeling Rating Curves. *Journal of Hydrologic Engineering - ASCE*, **2003**, 8, 161-164	1.8	102
22	Assessment of sediment deposition rate in Bargi Reservoir using digital image processing. *Hydrological Sciences Journal*, **2002**, 47, S81-S92	3.5	31
21	Discussion of □Development of Integrated Sediment Rating Curves Using ANNs□by Sharad Kumar Jain. *Journal of Hydraulic Engineering*, **2002**, 128, 870-871	1.8	0
20	Closure to □Development of Integrated Sediment Rating Curves Using ANNs□by Sharad Kumar Jain. *Journal of Hydraulic Engineering*, **2002**, 128, 871-871	1.8	0
19	Development of Integrated Sediment Rating Curves Using ANNs. *Journal of Hydraulic Engineering*, **2001**, 127, 30-37	1.8	159

18	Setting Up Stage-Discharge Relations Using ANN. *Journal of Hydrologic Engineering - ASCE*, **2000**, 5, 428-433	1.3	60
17	Estimation of Hydraulic Diffusivity in Stream-Aquifer System. *Journal of Irrigation and Drainage Engineering - ASCE*, **1999**, 125, 74-81	1.1	15
16	Application of ANN for Reservoir Inflow Prediction and Operation. *Journal of Water Resources Planning and Management - ASCE*, **1999**, 125, 263-271	2.8	222
15	Reservoir Operation Studies of Sabarmati System, India. *Journal of Water Resources Planning and Management - ASCE*, **1998**, 124, 31-37	2.8	29
14	Sediment yield estimation using GIS. *Hydrological Sciences Journal*, **1997**, 42, 833-843	3.5	62
13	Calibration of conceptual models for rainfall-runoff simulation. *Hydrological Sciences Journal*, **1993**, 38, 431-441	3.5	10
12	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	6	54
11	A RISK-BASED APPROACH FOR FLOOD CONTROL OPERATION OF A MULTIPURPOSE RESERVOIR1. *Journal of the American Water Resources Association*, **1992**, 28, 1037-1043	2.1	22
10	Strategies for flood risk reduction in India. *ISH Journal of Hydraulic Engineering*,1-10	1.5	
9	Hydrologic modeling of a Himalayan mountain basin by using the SWAT mode		11
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