

# Sudheer Kp

## List of Publications by Year in Descending Order

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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.

88 papers	4,875 citations	34 h-index	69 g-index
91 ext. papers	5,468 ext. citations	3.7 avg, IF	5.86 L-index

#	Paper	IF	Citations
88	Impact of water conservation structures on the agricultural productivity in the context of climate change. <i>Water Resources Management</i> , <b>2022</b> , 36, 1627	3.7	1
87	Drought hotspot maps and regional drought characteristics curves: Development of a novel framework and its application to an Indian River basin undergoing climatic changes. <i>Science of the Total Environment</i> , <b>2021</b> , 151083	10.2	0
86	Estimation of state-wide and monthly domestic water use in India from 1975 to 2015. <i>Urban Water Journal</i> , <b>2021</b> , 18, 421-432	2.3	2
85	Implications of uncertainty in inflow forecasting on reservoir operation for irrigation. <i>Paddy and Water Environment</i> , <b>2021</b> , 19, 99-111	1.6	3
84	A multistate first-order Markov model for modeling time distribution of extreme rainfall events. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2021</b> , 35, 1205-1221	3.5	2
83	Calibration of distributed hydrological models considering the heterogeneity of the parameters across the basin: a case study of SWAT model. <i>Environmental Earth Sciences</i> , <b>2021</b> , 80, 1	2.9	2
82	A decision support system for the identification of critical zones in a watershed to implement land management practices. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2021</b> , 35, 1649	3.5	0
81	Ambient air quality of a less industrialized region of India (Kerala) during the COVID-19 lockdown. <i>Anthropocene</i> , <b>2020</b> , 32, 100270	3.9	6
80	Uncertainty of hydrologic simulation, and its impact on the design and the effectiveness of water conservation structures. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2020</b> , 34, 973-991	3.5	2
79	Improving the crop productivity in rainfed areas with water harvesting structures and deficit irrigation strategies. <i>Journal of Hydrology</i> , <b>2020</b> , 586, 124818	6	18
78	Soil Temperature Dynamics at Hillslope Scale Field Observation and Machine Learning-Based Approach. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 713	3	9
77	A review of the assessment of sustainable water use at continental-to-global scale. <i>Sustainable Water Resources Management</i> , <b>2020</b> , 6, 1	1.9	9
76	Investigating Atrazine Concentrations in the Zwischenscholle Aquifer Using MODFLOW with the HYDRUS-1D Package and MT3DMS. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1019	3	5
75	Fuzzy inference system for site suitability evaluation of water harvesting structures in rainfed regions. <i>Agricultural Water Management</i> , <b>2019</b> , 218, 82-93	5.9	16
74	Implementation of Solute Transport in the Vadose Zone into the "HYDRUS Package for MODFLOW". <i>Ground Water</i> , <b>2019</b> , 57, 392-408	2.4	12
73	Role of Dams on the Floods of August 2018 in Periyar River Basin, Kerala. <i>Current Science</i> , <b>2019</b> , 116, 780	2.2	43
72	Enhancement of Model Reliability by Integrating Prediction Interval Optimization into Hydrogeological Modeling. <i>Water Resources Management</i> , <b>2019</b> , 33, 229-243	3.7	5

71	Spatial optimization of cropping pattern for sustainable food and biofuel production with minimal downstream pollution. <i>Journal of Environmental Management</i> , <b>2018</b> , 212, 198-209	7.9	17
70	A computationally efficient method for uncertainty analysis of SWAT model simulations. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2018</b> , 32, 1479-1492	3.5	3
69	Probabilistic and ensemble simulation approaches for input uncertainty quantification of artificial neural network hydrological models. <i>Hydrological Sciences Journal</i> , <b>2018</b> , 63, 101-113	3.5	11
68	Hydrologic design of water harvesting structures through simulation-optimization framework. <i>Journal of Hydrology</i> , <b>2018</b> , 563, 460-469	6	8
67	An improved bias correction method of daily rainfall data using a sliding window technique for climate change impact assessment. <i>Journal of Hydrology</i> , <b>2018</b> , 556, 100-118	6	52
66	Parameter estimation of SWAT and quantification of consequent confidence bands of model simulations. <i>Environmental Earth Sciences</i> , <b>2018</b> , 77, 1	2.9	11
65	An Improved Representation of Vegetative Filter Strips in SWAT. <i>Transactions of the ASABE</i> , <b>2018</b> , 61, 1017-1024	0.9	9
64	Methods used for quantifying the prediction uncertainty of artificial neural network based hydrologic models. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2017</b> , 31, 1659-1670	3.5	24
63	Marginal land suitability for switchgrass, Miscanthus and hybrid poplar in the Upper Mississippi River Basin (UMRB). <i>Environmental Modelling and Software</i> , <b>2017</b> , 93, 356-365	5.2	36
62	Development of a hydrological model for simulation of runoff from catchments unbounded by ridge lines. <i>Journal of Hydrology</i> , <b>2017</b> , 551, 423-439	6	9
61	Terrestrial Macrofungal Diversity from the Tropical Dry Evergreen Biome of Southern India and Its Potential Role in Aerobiology. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169333	3.7	13
60	Simulating Establishment Periods of Switchgrass and Miscanthus in the Soil and Water Assessment Tool (SWAT). <i>Transactions of the ASABE</i> , <b>2017</b> , 60, 1621-1632	0.9	4
59	Dynamic integration of land use changes in a hydrologic assessment of a rapidly developing Indian catchment. <i>Science of the Total Environment</i> , <b>2016</b> , 539, 153-164	10.2	58
58	Simulation-optimization framework for multi-site multi-season hybrid stochastic streamflow modeling. <i>Journal of Hydrology</i> , <b>2016</b> , 542, 506-531	6	5
57	Predictions in ungauged basins: an approach for regionalization of hydrological models considering the probability distribution of model parameters. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2016</b> , 30, 1131-1149	3.5	34
56	Comparison of methods used for quantifying prediction interval in artificial neural network hydrologic models. <i>Modeling Earth Systems and Environment</i> , <b>2016</b> , 2, 1	3.2	21
55	Quantification of Prediction Uncertainty in Artificial Neural Network Models. <i>Studies in Computational Intelligence</i> , <b>2016</b> , 145-159	0.8	6
54	Potential application of wavelet neural network ensemble to forecast streamflow for flood management. <i>Journal of Hydrology</i> , <b>2016</b> , 536, 161-173	6	80

53	Indian Summer Monsoon Rainfall: Implications of Contrasting Trends in the Spatial Variability of Means and Extremes. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158670	3.7	70
52	A method to reduce the computational requirement while assessing uncertainty of complex hydrological models. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2015</b> , 29, 847-859	3.5	8
51	Using Artificial Neural Network Approach for Simultaneous Forecasting of Weekly Groundwater Levels at Multiple Sites. <i>Water Resources Management</i> , <b>2015</b> , 29, 5521-5532	3.7	69
50	Adaptive multi-objective simulation-optimization framework for dynamic flood control operation in a river-reservoir system <b>2015</b> , 46, 893-911		9
49	Analysis of monsoon rainfall variability over Narmada basin in central India: Implication of climate change. <i>Journal of Water and Climate Change</i> , <b>2015</b> , 6, 615-627	2.3	20
48	Application of distributed hydrological models for predictions in ungauged basins: a method to quantify predictive uncertainty. <i>Hydrological Processes</i> , <b>2014</b> , 28, 2033-2045	3.3	29
47	Discussion of Comparison of three global optimization algorithms for calibration of the Xinanjiang model parameters by Dong-mei Xu, Wen-chuan Wang, Kwok-wing Chau, Chun-tian Cheng and Shou-yu Chen, 2013 <i>Journal of Hydroinformatics</i> 15 (1), 174-193, doi: 10.2166/hydro.2012.053.	2.6	
46	<i>Journal of Hydroinformatics</i> , <b>2014</b> , 16, 1461-1463 River flow forecasting through nonlinear local approximation in a fuzzy model. <i>Neural Computing and Applications</i> , <b>2014</b> , 25, 1951-1965	4.8	9
45	Improved higher lead time river flow forecasts using sequential neural network with error updating. <i>Journal of Hydrology and Hydromechanics</i> , <b>2014</b> , 62, 60-74	2.1	15
44	Development and verification of a non-linear disaggregation method (NL-DisTrad) to downscale MODIS land surface temperature to the spatial scale of Landsat thermal data to estimate evapotranspiration. <i>Remote Sensing of Environment</i> , <b>2013</b> , 135, 118-129	13.2	98
43	Quantification of the predictive uncertainty of artificial neural network based river flow forecast models. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2013</b> , 27, 137-146	3.5	63
42	Sensitivity analysis and auto-calibration of ORYZA2000 using simulation-optimization framework. <i>Paddy and Water Environment</i> , <b>2013</b> , 11, 59-71	1.6	14
41	Constructing prediction interval for artificial neural network rainfall runoff models based on ensemble simulations. <i>Journal of Hydrology</i> , <b>2013</b> , 499, 275-288	6	62
40	Effect of spatial resolution on regionalization of hydrological model parameters. <i>Hydrological Processes</i> , <b>2012</b> , 26, 3499-3509	3.3	15
39	Design of Water Distribution Network for Equitable Supply. <i>Water Resources Management</i> , <b>2012</b> , 26, 391-406	3.7	23
38	Linkage Between In-Stream Total Phosphorus and Land Cover in Chugoku District, Japan: An Ann Approach. <i>Journal of Hydrology and Hydromechanics</i> , <b>2012</b> , 60, 33-44	2.1	14
37	Uncertainty Analysis on Neural Network Based Hydrological Models Using Probabilistic Point Estimate Method. <i>Advances in Intelligent and Soft Computing</i> , <b>2012</b> , 377-384		
36	Comment on Advances in ungauged streamflow prediction using artificial neural networks by Besaw et al. [Journal of Hydrology, 386 (2010) 278-279]. <i>Journal of Hydrology</i> , <b>2011</b> , 408, 314-315	6	

35	SimulationOptimization framework for multi-season hybrid stochastic models. <i>Journal of Hydrology</i> , <b>2011</b> , 404, 209-225	6	11
34	Application of a pseudo simulator to evaluate the sensitivity of parameters in complex watershed models. <i>Environmental Modelling and Software</i> , <b>2011</b> , 26, 135-143	5.2	34
33	Artificial Neural Network Approach for Mapping Contrasting Tillage Practices. <i>Remote Sensing</i> , <b>2010</b> , 2, 579-590	5	18
32	Artificial Neural Network Modeling for Groundwater Level Forecasting in a River Island of Eastern India. <i>Water Resources Management</i> , <b>2010</b> , 24, 1845-1865	3.7	120
31	Sensitivity and identifiability of stream flow generation parameters of the SWAT model. <i>Hydrological Processes</i> , <b>2010</b> , 24, 1133-1148	3.3	170
30	Methods used for the development of neural networks for the prediction of water resource variables in river systems: Current status and future directions. <i>Environmental Modelling and Software</i> , <b>2010</b> , 25, 891-909	5.2	532
29	RECENT ADVANCES IN KNOWLEDGE EXTRACTION FROM NEURAL NETWORK BASED HYDROLOGIC MODELS. <i>ISH Journal of Hydraulic Engineering</i> , <b>2009</b> , 15, 75-83	1.5	3
28	RAINFALL RUNOFF MODELLING USING NEURAL NETWORKS: STATE-OF-THE-ART AND FUTURE RESEARCH NEEDS. <i>ISH Journal of Hydraulic Engineering</i> , <b>2009</b> , 15, 52-74	1.5	6
27	Deficit irrigation management for rice using crop growth simulation model in an optimization framework. <i>Paddy and Water Environment</i> , <b>2009</b> , 7, 135-149	1.6	38
26	Fitting of Hydrologic Models: A Close Look at the NashButcliffe Index. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2008</b> , 13, 981-986	1.8	119
25	Fuzzy model identification based on cluster estimation for reservoir inflow forecasting. <i>Hydrological Processes</i> , <b>2008</b> , 22, 827-841	3.3	19
24	A nonlinear data-driven model for synthetic generation of annual streamflows. <i>Hydrological Processes</i> , <b>2008</b> , 22, 1831-1845	3.3	20
23	Models for estimating evapotranspiration using artificial neural networks, and their physical interpretation. <i>Hydrological Processes</i> , <b>2008</b> , 22, 2225-2234	3.3	104
22	Ultimate bearing capacity prediction of shallow foundations on cohesionless soils using neurofuzzy models. <i>Computers and Geotechnics</i> , <b>2008</b> , 35, 33-46	4.4	104
21	Rainfall-runoff modeling through hybrid intelligent system. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	51
20	A simplified approach to quantifying predictive and parametric uncertainty in artificial neural network hydrologic models. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	74
19	Impact of time-scale of the calibration objective function on the performance of watershed models. <i>Hydrological Processes</i> , <b>2007</b> , 21, 3409-3419	3.3	19
18	A hybrid linear-neural model for river flow forecasting. <i>Water Resources Research</i> , <b>2006</b> , 42,	5.4	16

17	LAKE WATER QUALITY ASSESSMENT FROM LANDSAT THEMATIC MAPPER DATA USING NEURAL NETWORK: AN APPROACH TO OPTIMAL BAND COMBINATION SELECTION <sup>1</sup> . <i>Journal of the American Water Resources Association</i> , <b>2006</b> , 42, 1683-1695	2.1	36
16	Groundwater Level Forecasting in a Shallow Aquifer Using Artificial Neural Network Approach. <i>Water Resources Management</i> , <b>2006</b> , 20, 77-90	3.7	227
15	Short-term flood forecasting with a neurofuzzy model. <i>Water Resources Research</i> , <b>2005</b> , 41,	5.4	172
14	Fuzzy computing based rainfall-runoff model for real time flood forecasting. <i>Hydrological Processes</i> , <b>2005</b> , 19, 955-968	3.3	124
13	Rainfall-runoff modelling using artificial neural networks: comparison of network types. <i>Hydrological Processes</i> , <b>2005</b> , 19, 1277-1291	3.3	151
12	Knowledge Extraction from Trained Neural Network River Flow Models. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2005</b> , 10, 264-269	1.8	67
11	Discussion of Performance of Neural Networks in Daily Streamflow Forecasting by S. Birikundavyi, R. Labib, H. T. Trung, and J. Rousselle. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2004</b> , 9, 553-555	1.8	1
10	Planning groundwater development in coastal aquifers / Planification du développement de la ressource en eau souterraine des aquifères côtiers. <i>Hydrological Sciences Journal</i> , <b>2004</b> , 49, 155-170	3.5	57
9	Identification of physical processes inherent in artificial neural network rainfall runoff models. <i>Hydrological Processes</i> , <b>2004</b> , 18, 571-581	3.3	140
8	Explaining the internal behaviour of artificial neural network river flow models. <i>Hydrological Processes</i> , <b>2004</b> , 18, 833-844	3.3	95
7	A neuro-fuzzy computing technique for modeling hydrological time series. <i>Journal of Hydrology</i> , <b>2004</b> , 291, 52-66	6	460
6	Improving peak flow estimates in artificial neural network river flow models. <i>Hydrological Processes</i> , <b>2003</b> , 17, 677-686	3.3	75
5	Estimating Actual Evapotranspiration from Limited Climatic Data Using Neural Computing Technique. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2003</b> , 129, 214-218	1.1	181
4	Radial Basis Function Neural Network for Modeling Rating Curves. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2003</b> , 8, 161-164	1.8	102
3	Modelling evaporation using an artificial neural network algorithm. <i>Hydrological Processes</i> , <b>2002</b> , 16, 3189-3202	3.3	155
2	A data-driven algorithm for constructing artificial neural network rainfall-runoff models. <i>Hydrological Processes</i> , <b>2002</b> , 16, 1325-1330	3.3	290
1	Digital image processing for determining drop sizes from irrigation spray nozzles. <i>Agricultural Water Management</i> , <b>2000</b> , 45, 159-167	5.9	29