

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2848483/sudheer-kp-publications-by-citations.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | 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> , 2010 , 25, 891-909 | 5.2 | 532 |
| 87 | A neuro-fuzzy computing technique for modeling hydrological time series. <i>Journal of Hydrology</i> , 2004 , 291, 52-66 | 6 | 460 |
| 86 | A data-driven algorithm for constructing artificial neural network rainfall-runoff models. <i>Hydrological Processes</i> , 2002 , 16, 1325-1330 | 3.3 | 290 |
| 85 | Groundwater Level Forecasting in a Shallow Aquifer Using Artificial Neural Network Approach. <i>Water Resources Management</i> , 2006 , 20, 77-90 | 3.7 | 227 |
| 84 | Estimating Actual Evapotranspiration from Limited Climatic Data Using Neural Computing Technique. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2003 , 129, 214-218 | 1.1 | 181 |
| 83 | Short-term flood forecasting with a neurofuzzy model. <i>Water Resources Research</i> , 2005 , 41, | 5.4 | 172 |
| 82 | Sensitivity and identifiability of stream flow generation parameters of the SWAT model. <i>Hydrological Processes</i> , 2010 , 24, 1133-1148 | 3.3 | 170 |
| 81 | Modelling evaporation using an artificial neural network algorithm. <i>Hydrological Processes</i> , 2002 , 16, 3189-3202 | 3.3 | 155 |
| 80 | Rainfall-runoff modelling using artificial neural networks: comparison of network types. <i>Hydrological Processes</i> , 2005 , 19, 1277-1291 | 3.3 | 151 |
| 79 | Identification of physical processes inherent in artificial neural network rainfall runoff models. <i>Hydrological Processes</i> , 2004 , 18, 571-581 | 3.3 | 140 |
| 78 | Fuzzy computing based rainfall-runoff model for real time flood forecasting. <i>Hydrological Processes</i> , 2005 , 19, 955-968 | 3.3 | 124 |
| 77 | Artificial Neural Network Modeling for Groundwater Level Forecasting in a River Island of Eastern India. <i>Water Resources Management</i> , 2010 , 24, 1845-1865 | 3.7 | 120 |
| 76 | Fitting of Hydrologic Models: A Close Look at the Nash-Sutcliffe Index. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 981-986 | 1.8 | 119 |
| 75 | Models for estimating evapotranspiration using artificial neural networks, and their physical interpretation. <i>Hydrological Processes</i> , 2008 , 22, 2225-2234 | 3.3 | 104 |
| 74 | Ultimate bearing capacity prediction of shallow foundations on cohesionless soils using neurofuzzy models. <i>Computers and Geotechnics</i> , 2008 , 35, 33-46 | 4.4 | 104 |
| 73 | Radial Basis Function Neural Network for Modeling Rating Curves. <i>Journal of Hydrologic Engineering - ASCE</i> , 2003 , 8, 161-164 | 1.8 | 102 |
| 72 | 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> , 2013 , 135, 118-129 | 13.2 | 98 |

| | | | |
|----|---|------|----|
| 71 | Explaining the internal behaviour of artificial neural network river flow models. <i>Hydrological Processes</i> , 2004 , 18, 833-844 | 3.3 | 95 |
| 70 | Potential application of wavelet neural network ensemble to forecast streamflow for flood management. <i>Journal of Hydrology</i> , 2016 , 536, 161-173 | 6 | 80 |
| 69 | Improving peak flow estimates in artificial neural network river flow models. <i>Hydrological Processes</i> , 2003 , 17, 677-686 | 3.3 | 75 |
| 68 | A simplified approach to quantifying predictive and parametric uncertainty in artificial neural network hydrologic models. <i>Water Resources Research</i> , 2007 , 43, | 5.4 | 74 |
| 67 | Indian Summer Monsoon Rainfall: Implications of Contrasting Trends in the Spatial Variability of Means and Extremes. <i>PLoS ONE</i> , 2016 , 11, e0158670 | 3.7 | 70 |
| 66 | Using Artificial Neural Network Approach for Simultaneous Forecasting of Weekly Groundwater Levels at Multiple Sites. <i>Water Resources Management</i> , 2015 , 29, 5521-5532 | 3.7 | 69 |
| 65 | Knowledge Extraction from Trained Neural Network River Flow Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2005 , 10, 264-269 | 1.8 | 67 |
| 64 | Quantification of the predictive uncertainty of artificial neural network based river flow forecast models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 137-146 | 3.5 | 63 |
| 63 | Constructing prediction interval for artificial neural network rainfall runoff models based on ensemble simulations. <i>Journal of Hydrology</i> , 2013 , 499, 275-288 | 6 | 62 |
| 62 | Dynamic integration of land use changes in a hydrologic assessment of a rapidly developing Indian catchment. <i>Science of the Total Environment</i> , 2016 , 539, 153-164 | 10.2 | 58 |
| 61 | Planning groundwater development in coastal aquifers / Planification du développement de la ressource en eau souterraine des aquifères côtiers. <i>Hydrological Sciences Journal</i> , 2004 , 49, 155-170 | 3.5 | 57 |
| 60 | An improved bias correction method of daily rainfall data using a sliding window technique for climate change impact assessment. <i>Journal of Hydrology</i> , 2018 , 556, 100-118 | 6 | 52 |
| 59 | Rainfall-runoff modeling through hybrid intelligent system. <i>Water Resources Research</i> , 2007 , 43, | 5.4 | 51 |
| 58 | Role of Dams on the Floods of August 2018 in Periyar River Basin, Kerala. <i>Current Science</i> , 2019 , 116, 780 | 2.2 | 43 |
| 57 | Deficit irrigation management for rice using crop growth simulation model in an optimization framework. <i>Paddy and Water Environment</i> , 2009 , 7, 135-149 | 1.6 | 38 |
| 56 | Marginal land suitability for switchgrass, Miscanthus and hybrid poplar in the Upper Mississippi River Basin (UMRB). <i>Environmental Modelling and Software</i> , 2017 , 93, 356-365 | 5.2 | 36 |
| 55 | LAKE WATER QUALITY ASSESSMENT FROM LANDSAT THEMATIC MAPPER DATA USING NEURAL NETWORK: AN APPROACH TO OPTIMAL BAND COMBINATION SELECTION1. <i>Journal of the American Water Resources Association</i> , 2006 , 42, 1683-1695 | 2.1 | 36 |
| 54 | 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> , 2016 , 30, 1131-1149 | 3.5 | 34 |

| | | | |
|----|--|-----|----|
| 53 | Application of a pseudo simulator to evaluate the sensitivity of parameters in complex watershed models. <i>Environmental Modelling and Software</i> , 2011 , 26, 135-143 | 5.2 | 34 |
| 52 | Application of distributed hydrological models for predictions in ungauged basins: a method to quantify predictive uncertainty. <i>Hydrological Processes</i> , 2014 , 28, 2033-2045 | 3.3 | 29 |
| 51 | Digital image processing for determining drop sizes from irrigation spray nozzles. <i>Agricultural Water Management</i> , 2000 , 45, 159-167 | 5.9 | 29 |
| 50 | Methods used for quantifying the prediction uncertainty of artificial neural network based hydrologic models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 1659-1670 | 3.5 | 24 |
| 49 | Design of Water Distribution Network for Equitable Supply. <i>Water Resources Management</i> , 2012 , 26, 391-406 | 3.7 | 23 |
| 48 | Comparison of methods used for quantifying prediction interval in artificial neural network hydrologic models. <i>Modeling Earth Systems and Environment</i> , 2016 , 2, 1 | 3.2 | 21 |
| 47 | Analysis of monsoon rainfall variability over Narmada basin in central India: Implication of climate change. <i>Journal of Water and Climate Change</i> , 2015 , 6, 615-627 | 2.3 | 20 |
| 46 | A nonlinear data-driven model for synthetic generation of annual streamflows. <i>Hydrological Processes</i> , 2008 , 22, 1831-1845 | 3.3 | 20 |
| 45 | Impact of time-scale of the calibration objective function on the performance of watershed models. <i>Hydrological Processes</i> , 2007 , 21, 3409-3419 | 3.3 | 19 |
| 44 | Fuzzy model identification based on cluster estimation for reservoir inflow forecasting. <i>Hydrological Processes</i> , 2008 , 22, 827-841 | 3.3 | 19 |
| 43 | Improving the crop productivity in rainfed areas with water harvesting structures and deficit irrigation strategies. <i>Journal of Hydrology</i> , 2020 , 586, 124818 | 6 | 18 |
| 42 | Artificial Neural Network Approach for Mapping Contrasting Tillage Practices. <i>Remote Sensing</i> , 2010 , 2, 579-590 | 5 | 18 |
| 41 | Spatial optimization of cropping pattern for sustainable food and biofuel production with minimal downstream pollution. <i>Journal of Environmental Management</i> , 2018 , 212, 198-209 | 7.9 | 17 |
| 40 | Fuzzy inference system for site suitability evaluation of water harvesting structures in rainfed regions. <i>Agricultural Water Management</i> , 2019 , 218, 82-93 | 5.9 | 16 |
| 39 | A hybrid linear-neural model for river flow forecasting. <i>Water Resources Research</i> , 2006 , 42, | 5.4 | 16 |
| 38 | Effect of spatial resolution on regionalization of hydrological model parameters. <i>Hydrological Processes</i> , 2012 , 26, 3499-3509 | 3.3 | 15 |
| 37 | Improved higher lead time river flow forecasts using sequential neural network with error updating. <i>Journal of Hydrology and Hydromechanics</i> , 2014 , 62, 60-74 | 2.1 | 15 |
| 36 | Sensitivity analysis and auto-calibration of ORYZA2000 using simulation-optimization framework. <i>Paddy and Water Environment</i> , 2013 , 11, 59-71 | 1.6 | 14 |

| | | | |
|----|--|-----|----|
| 35 | Linkage Between In-Stream Total Phosphorus and Land Cover in Chugoku District, Japan: An Ann Approach. <i>Journal of Hydrology and Hydromechanics</i> , 2012 , 60, 33-44 | 2.1 | 14 |
| 34 | Terrestrial Macrofungal Diversity from the Tropical Dry Evergreen Biome of Southern India and Its Potential Role in Aerobiology. <i>PLoS ONE</i> , 2017 , 12, e0169333 | 3.7 | 13 |
| 33 | Implementation of Solute Transport in the Vadose Zone into the "HYDRUS Package for MODFLOW". <i>Ground Water</i> , 2019 , 57, 392-408 | 2.4 | 12 |
| 32 | Probabilistic and ensemble simulation approaches for input uncertainty quantification of artificial neural network hydrological models. <i>Hydrological Sciences Journal</i> , 2018 , 63, 101-113 | 3.5 | 11 |
| 31 | Simulation-Optimization framework for multi-season hybrid stochastic models. <i>Journal of Hydrology</i> , 2011 , 404, 209-225 | 6 | 11 |
| 30 | Parameter estimation of SWAT and quantification of consequent confidence bands of model simulations. <i>Environmental Earth Sciences</i> , 2018 , 77, 1 | 2.9 | 11 |
| 29 | Development of a hydrological model for simulation of runoff from catchments unbounded by ridge lines. <i>Journal of Hydrology</i> , 2017 , 551, 423-439 | 6 | 9 |
| 28 | Soil Temperature Dynamics at Hillslope Scale-Field Observation and Machine Learning-Based Approach. <i>Water (Switzerland)</i> , 2020 , 12, 713 | 3 | 9 |
| 27 | A review of the assessment of sustainable water use at continental-to-global scale. <i>Sustainable Water Resources Management</i> , 2020 , 6, 1 | 1.9 | 9 |
| 26 | Adaptive multi-objective simulation-Optimization framework for dynamic flood control operation in a river-reservoir system 2015 , 46, 893-911 | | 9 |
| 25 | River flow forecasting through nonlinear local approximation in a fuzzy model. <i>Neural Computing and Applications</i> , 2014 , 25, 1951-1965 | 4.8 | 9 |
| 24 | An Improved Representation of Vegetative Filter Strips in SWAT. <i>Transactions of the ASABE</i> , 2018 , 61, 1017-1024 | 0.9 | 9 |
| 23 | A method to reduce the computational requirement while assessing uncertainty of complex hydrological models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 847-859 | 3.5 | 8 |
| 22 | Hydrologic design of water harvesting structures through simulation-optimization framework. <i>Journal of Hydrology</i> , 2018 , 563, 460-469 | 6 | 8 |
| 21 | Ambient air quality of a less industrialized region of India (Kerala) during the COVID-19 lockdown. <i>Anthropocene</i> , 2020 , 32, 100270 | 3.9 | 6 |
| 20 | Quantification of Prediction Uncertainty in Artificial Neural Network Models. <i>Studies in Computational Intelligence</i> , 2016 , 145-159 | 0.8 | 6 |
| 19 | RAINFALL RUNOFF MODELLING USING NEURAL NETWORKS: STATE-OF-THE-ART AND FUTURE RESEARCH NEEDS. <i>ISH Journal of Hydraulic Engineering</i> , 2009 , 15, 52-74 | 1.5 | 6 |
| 18 | Investigating Atrazine Concentrations in the Zwischenscholle Aquifer Using MODFLOW with the HYDRUS-1D Package and MT3DMS. <i>Water (Switzerland)</i> , 2020 , 12, 1019 | 3 | 5 |

| | | | |
|----|--|------|---|
| 17 | Simulation-optimization framework for multi-site multi-season hybrid stochastic streamflow modeling. <i>Journal of Hydrology</i> , 2016 , 542, 506-531 | 6 | 5 |
| 16 | Enhancement of Model Reliability by Integrating Prediction Interval Optimization into Hydrogeological Modeling. <i>Water Resources Management</i> , 2019 , 33, 229-243 | 3.7 | 5 |
| 15 | Simulating Establishment Periods of Switchgrass and Miscanthus in the Soil and Water Assessment Tool (SWAT). <i>Transactions of the ASABE</i> , 2017 , 60, 1621-1632 | 0.9 | 4 |
| 14 | A computationally efficient method for uncertainty analysis of SWAT model simulations. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 1479-1492 | 3.5 | 3 |
| 13 | RECENT ADVANCES IN KNOWLEDGE EXTRACTION FROM NEURAL NETWORK BASED HYDROLOGIC MODELS. <i>ISH Journal of Hydraulic Engineering</i> , 2009 , 15, 75-83 | 1.5 | 3 |
| 12 | Implications of uncertainty in inflow forecasting on reservoir operation for irrigation. <i>Paddy and Water Environment</i> , 2021 , 19, 99-111 | 1.6 | 3 |
| 11 | 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> , 2020 , 34, 973-991 | 3.5 | 2 |
| 10 | Estimation of state-wide and monthly domestic water use in India from 1975 to 2015. <i>Urban Water Journal</i> , 2021 , 18, 421-432 | 2.3 | 2 |
| 9 | A multistate first-order Markov model for modeling time distribution of extreme rainfall events. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 1205-1221 | 3.5 | 2 |
| 8 | 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> , 2021 , 80, 1 | 2.9 | 2 |
| 7 | 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> , 2004 , 9, 553-555 | 1.8 | 1 |
| 6 | Impact of water conservation structures on the agricultural productivity in the context of climate change. <i>Water Resources Management</i> , 2022 , 36, 1627 | 3.7 | 1 |
| 5 | 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> , 2021 , 151083 | 10.2 | 0 |
| 4 | 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> , 2021 , 35, 1649 | 3.5 | 0 |
| 3 | 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. <i>Journal of Hydroinformatics</i> , 2014 , 16, 1461-1463 | 2.6 | |
| 2 | Comment on Advances in ungauged streamflow prediction using artificial neural networks by Besaw et al. [<i>Journal of Hydrology</i> , 386 (2010) 27B7]. <i>Journal of Hydrology</i> , 2011 , 408, 314-315 | 6 | |
| 1 | Uncertainty Analysis on Neural Network Based Hydrological Models Using Probabilistic Point Estimate Method. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 377-384 | | |