

# Narayan Kumar Shrestha

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

816  
citations

516710

16  
h-index

501196

28  
g-index

30  
all docs

30  
docs citations

30  
times ranked

940  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing climate change impacts on fresh water resources of the Athabasca River Basin, Canada. Science of the Total Environment, 2017, 601-602, 425-440.	8.0	117
2	Predicting sediment yield and transport dynamics of a cold climate region watershed in changing climate. Science of the Total Environment, 2018, 625, 1030-1045.	8.0	73
3	Assessment of the different sources of uncertainty in a SWAT model of the River Senne (Belgium). Environmental Modelling and Software, 2015, 68, 129-146.	4.5	69
4	Evaluating the accuracy of Climate Hazard Group (CHG) satellite rainfall estimates for precipitation based drought monitoring in Koshi basin, Nepal. Journal of Hydrology: Regional Studies, 2017, 13, 138-151.	2.4	66
5	OpenMI-based integrated sediment transport modelling of the river Zenne, Belgium. Environmental Modelling and Software, 2013, 47, 193-206.	4.5	57
6	Assessing climate change impacts on stream temperature in the Athabasca River Basin using SWAT equilibrium temperature model and its potential impacts on stream ecosystem. Science of the Total Environment, 2019, 650, 1872-1881.	8.0	56
7	Quantifying the Impacts of Climate Change on Streamflow Dynamics of Two Major Rivers of the Northern Lake Erie Basin in Canada. Sustainability, 2018, 10, 2897.	3.2	37
8	Current and future hot-spots and hot-moments of nitrous oxide emission in a cold climate river basin. Environmental Pollution, 2018, 239, 648-660.	7.5	29
9	Incorporation of the equilibrium temperature approach in a Soil and Water Assessment Tool hydroclimatological stream temperature model. Hydrology and Earth System Sciences, 2018, 22, 2343-2357.	4.9	24
10	A comprehensive review of ephemeral gully erosion models. Catena, 2020, 195, 104901.	5.0	24
11	Currents Status, Challenges, and Future Directions in Identifying Critical Source Areas for Non-Point Source Pollution in Canadian Conditions. Agriculture (Switzerland), 2020, 10, 468.	3.1	24
12	Water Security Assessment of the Grand River Watershed in Southwestern Ontario, Canada. Sustainability, 2019, 11, 1883.	3.2	22
13	Integrating organic chemical simulation module into SWAT model with application for PAHs simulation in Athabasca oil sands region, Western Canada. Environmental Modelling and Software, 2019, 111, 432-443.	4.5	21
14	A comparative evaluation of the continuous and event-based modelling approaches for identifying critical source areas for sediment and phosphorus losses. Journal of Environmental Management, 2021, 277, 111427.	7.8	21
15	Assessment of climate change impact on crop yield and irrigation water requirement of two major cereal crops (rice and wheat) in Bhaktapur district, Nepal. Journal of Water and Climate Change, 2017, 8, 320-335.	2.9	20
16	Modeling nitrous oxide emissions from rough fescue grassland soils subjected to long-term grazing of different intensities using the Soil and Water Assessment Tool (SWAT). Environmental Science and Pollution Research, 2018, 25, 27362-27377.	5.3	16
17	Identifying threshold storm events and quantifying potential impacts of climate change on sediment yield in a small upland agricultural watershed of Ontario. Hydrological Processes, 2019, 33, 920-931.	2.6	16
18	Applicability of Lumped Hydrological Models in a Data-Constrained River Basin of Asia. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	1.9	15

#	ARTICLE	IF	CITATIONS
19	Modelling Escherichia coli dynamics in the river Zenne (Belgium) using an OpenMI based integrated model. Journal of Hydroinformatics, 2014, 16, 354-374.	2.4	12
20	Development of RWQM1-based integrated water quality model in OpenMI with application to the River Zenne, Belgium. Hydrological Sciences Journal, 2017, 62, 774-799.	2.6	12
21	Incorporating a non-reactive heavy metal simulation module into SWAT model and its application in the Athabasca oil sands region. Environmental Science and Pollution Research, 2019, 26, 20879-20892.	5.3	12
22	Predicting nitrous oxide emissions after the application of solid manure to grassland in the United Kingdom. Journal of Environmental Quality, 2020, 49, 1-13.	2.0	11
23	Modelling Watershed and River Basin Processes in Cold Climate Regions: A Review. Water (Switzerland), 2021, 13, 518.	2.7	11
24	A Review of Ongoing Advancements in Soil and Water Assessment Tool (SWAT) for Nitrous Oxide (N <sub>2</sub> O) Modeling. Atmosphere, 2020, 11, 450.	2.3	10
25	Advancing model calibration and uncertainty analysis of SWAT models using cloud computing infrastructure: LCC-SWAT. Journal of Hydroinformatics, 2021, 23, 1-15.	2.4	9
26	Trace Metal Modelling of a Complex River Basin Using the Suite of Models Integrated in the OpenMI Platform. Environments - MDPI, 2018, 5, 48.	3.3	8
27	Threshold storm approach for locating phosphorus problem areas: An application in three agricultural watersheds in the Canadian Lake Erie basin. Journal of Great Lakes Research, 2020, 46, 132-143.	1.9	8
28	The Role of Large Dams in a Transboundary Drought Management Co-Operation Framework—Case Study of the Kabul River Basin. Water (Switzerland), 2021, 13, 2628.	2.7	8
29	Integrated Water Quality Modelling of the River Zenne (Belgium) Using OpenMI. , 2014, , 259-274.		7
30	Mapping runoff generating areas using AGNPS-VSA model. Hydrological Sciences Journal, 2020, 65, 2224-2232.	2.6	1