Rabin Bhattarai

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Estimation of Soil Erosion and Sediment Yield Using GIS at Catchment Scale. Water Resources Management, 2007, 21, 1635-1647.	1.9	141
2	Iran's Agriculture in the Anthropocene. Earth's Future, 2020, 8, e2020EF001547.	2.4	82
3	Anthropogenic depletion of Iran's aquifers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	82
4	Towards sustainable coal industry: Turning coal bottom ash into wealth. Science of the Total Environment, 2022, 804, 149985.	3.9	75
5	Estimating the Impact of Climate Change on Water Availability in Bagmati Basin, Nepal. Environmental Processes, 2016, 3, 1-17.	1.7	63
6	Utilization of coal fly and bottom ash pellet for phosphorus adsorption: Sustainable management and evaluation. Resources, Conservation and Recycling, 2019, 149, 372-380.	5.3	60
7	Complex dynamics of water quality mixing in a warm mono-mictic reservoir. Science of the Total Environment, 2021, 777, 146097.	3.9	55
8	Nutrient transport through a Vegetative Filter Strip with subsurface drainage. Journal of Environmental Management, 2009, 90, 1868-1876.	3.8	51
9	Climate Change Impacts on Flow, Sediment and Nutrient Export in a Great Lakes Watershed Using SWAT. Clean - Soil, Air, Water, 2015, 43, 1464-1474.	0.7	50
10	PVA/PEI crosslinked electrospun nanofibers with embedded La(OH)3 nanorod for selective adsorption of high flux low concentration phosphorus. Journal of Hazardous Materials, 2020, 384, 121457.	6.5	45
11	Metal contamination assessment in water column and surface sediments of a warm monomictic man-made lake: Sabalan Dam Reservoir, Iran. Hydrology Research, 2020, 51, 799-814.	1.1	33
12	Exploring the effects of nitrogen fertilization management alternatives on nitrate loss and crop yields in tile-drained fields in Illinois. Journal of Environmental Management, 2018, 213, 341-352.	3.8	31
13	Characterization of fly ash ceramic pellet for phosphorus removal. Journal of Environmental Management, 2017, 189, 67-74.	3.8	28
14	Analysis of Best Management Practices Implementation on Water Quality Using the Soil and Water Assessment Tool. Water (Switzerland), 2016, 8, 145.	1.2	26
15	Application of Web ERosivity Module (WERM) for estimation of annual and monthly R factor in Korea. Catena, 2016, 147, 225-237.	2.2	26
16	Composite fouling of drip emitters applying surface water with high sand concentration: Dynamic variation and formation mechanism. Agricultural Water Management, 2019, 215, 25-43.	2.4	25
17	Green synthesis of ultrapure La(OH)3 nanoparticles by one-step method through spark ablation and electrospinning and its application to phosphate removal. Chemical Engineering Journal, 2020, 388, 124373.	6.6	25
18	Evaluation of compost blankets for erosion control from disturbed lands. Journal of Environmental Management, 2011, 92, 803-812.	3.8	24

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19	A comparative analysis of sediment yield simulation by empirical and process-oriented models in Thailand / Une analyse comparative de simulations de l'exportation sÀ©dimentaire en ThaÃTlande À l'aide de modÃTles empiriques et de processus. Hydrological Sciences Journal, 2008, 53, 1253-1269.	1.2	23
20	Synergism in nitrate and orthophosphate removal in subsurface bioreactors. Ecological Engineering, 2015, 84, 559-568.	1.6	22
21	Development of web-based WERM-S module for estimating spatially distributed rainfall erosivity index (EI30) using RADAR rainfall data. Catena, 2018, 161, 37-49.	2.2	19
22	Evaluation of fly ash pellets for phosphorus removal in a laboratory scale denitrifying bioreactor. Journal of Environmental Management, 2018, 207, 269-275.	3.8	18
23	Impacts of Dem Source, Resolution and Area Threshold Values on SWAT Generated Stream Network and Streamflow in Two Distinct Nepalese Catchments. Environmental Processes, 2019, 6, 597-617.	1.7	18
24	Development of Climate Data Bias Corrector (CDBC) Tool and Its Application over the Agro-Ecological Zones of India. Water (Switzerland), 2019, 11, 1102.	1.2	18
25	ThSSim: A novel tool for simulation of reservoir thermal stratification. Scientific Reports, 2019, 9, 18524.	1.6	18
26	Phosphorus pollution control using waste-based adsorbents: Material synthesis, modification, and sustainability. Critical Reviews in Environmental Science and Technology, 2022, 52, 2023-2059.	6.6	16
27	Analysis of the Long-term Precipitation Trend in Illinois and Its Implications for Agricultural Production. Water (Switzerland), 2018, 10, 433.	1.2	15
28	Reliability of functional forms for calculation of longitudinal dispersion coefficient in rivers. Science of the Total Environment, 2021, 791, 148394.	3.9	14
29	Impact of global climate change on stream low flows: A case study of the great Miami river watershed, Ohio, USA. International Journal of Agricultural and Biological Engineering, 2019, 12, 84-95.	0.3	14
30	Combining Environmental Monitoring and Remote Sensing Technologies to Evaluate Cropping System Nitrogen Dynamics at the Field-Scale. Frontiers in Sustainable Food Systems, 2019, 3, .	1.8	13
31	Insights from socio-hydrological modeling to design sustainable wastewater reuse strategies for agriculture at the watershed scale. Agricultural Water Management, 2020, 231, 105983.	2.4	13
32	Evaluation of nitrogen loss reduction strategies using DRAINMOD-DSSAT in east-central Illinois. Agricultural Water Management, 2020, 240, 106322.	2.4	13
33	Investigation of Rotavirus Survival in Different Soil Fractions and Temperature Conditions. Journal of Environmental Protection, 2013, 04, 1-9.	0.3	13
34	Prediction of Nitrate and Phosphorus Concentrations Using Machine Learning Algorithms in Watersheds with Different Landuse. Water (Switzerland), 2021, 13, 3096.	1.2	12
35	In-season split nitrogen application and cover cropping effects on nitrous oxide emissions in rainfed maize. Agriculture, Ecosystems and Environment, 2022, 326, 107813.	2.5	11
36	Splitâ€nitrogen application with cover cropping reduces subsurface nitrate losses while maintaining corn yields. Journal of Environmental Quality, 2021, 50, 1408-1418.	1.0	10

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37	Development of a physically-based model for transport of Cryptosporidium parvum in overland flow. Environmental Modelling and Software, 2011, 26, 1289-1297.	1.9	8
38	Effects of Soil Type and Cover Condition on Cryptosporidium parvum Transport in Overland Flow. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	8
39	Relative performance of different data mining techniques for nitrate concentration and load estimation in different type of watersheds. Environmental Pollution, 2020, 263, 114618.	3.7	8
40	Evaluation of Conservation Drainage Systems in Illinois - Bioreactors. , 2010, , .		7
41	Simulated responses of tile-drained agricultural systems to recent changes in ambient atmospheric gradients. Agricultural Systems, 2019, 168, 48-55.	3.2	7
42	Design flow and nitrate removal evaluation of a wide denitrifying bioreactor with baffles. Ecological Engineering, 2020, 158, 106068.	1.6	7
43	Overland Transport of Rotavirus and the Effect of Soil Type and Vegetation. Water (Switzerland), 2016, 8, 78.	1.2	6
44	Soil quality indicators to evaluate environmental services at different landscape positions and land uses in the Atlantic Forest biome. Environmental and Sustainability Indicators, 2020, 7, 100047.	1.7	6
45	Efficacy of heated tourmaline in reducing biomass clogging within woodchip bioreactors. Science of the Total Environment, 2021, 755, 142401.	3.9	6
46	Field evaluation of sediment retention devices under concentrated flow conditions. Journal of Soils and Sediments, 2015, 15, 2022-2031.	1.5	4
47	Soil surface roughness under tillage practices and its consequences for water and sediment losses. Journal of Soil Science and Plant Nutrition, 2016, , 0-0.	1.7	4
48	Analysis of Long-Term Temperature Trend in Illinois and its Implication on the Cropping System. Environmental Processes, 2018, 5, 451-464.	1.7	4
49	How climate scenarios alter future predictions of field-scale water and nitrogen dynamics and crop yields. Journal of Environmental Management, 2019, 252, 109623.	3.8	4
50	Sediment Transport Modeling Using GIS in Bagmati Basin, Nepal. , 0, , .		3
51	Assessment of water quality in Little Vermillion River watershed using principal component and nearest neighbor analyses. Water Science and Technology: Water Supply, 2015, 15, 327-338.	1.0	3
52	Modeling effect of cover condition and soil type on rotavirus transport in surface flow. Journal of Water and Health, 2017, 15, 545-554.	1.1	3
53	Assessment of Surface Inlets Performance on Sediment Transport to Subsurface Drainage System. Applied Engineering in Agriculture, 2017, 33, 217-224.	0.3	3
54	Runoff sediment and P losses from various soil management practices: modelling in hilly slopes. Journal of Soil Science and Plant Nutrition, 2018, , 0-0.	1.7	3

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55	Low-Water Crossings: An Overview of Designs Implemented along Rural, Low-Volume Roads. Environments - MDPI, 2018, 5, 22.	1.5	3
56	Comparison of simulated nitrogen management strategies using DRAINMOD-DSSAT and RZWQM2. Agricultural Water Management, 2022, 266, 107597.	2.4	3
57	Can functional leaf traits be used for monitoring wetland restoration? A comparison between commonly used monitoring metrics and functional leaf traits. Ecological Indicators, 2022, 140, 109032.	2.6	3
58	How Ångström–Prescott Coefficients Alter the Estimation of Agricultural Water Demand in South Korea. Water (Switzerland), 2018, 10, 1851.	1.2	2
59	Relative Contribution of Climate Change and Anthropogenic Activities to Streamflow Alterations in Illinois. Water (Switzerland), 2021, 13, 3226.	1.2	2
60	Integrating WEPP and a Pathogen Transport Model to Simulate Fate and Transport of Cryptosporidium and Rotavirus in Surface Flow. , 2011, , .		1
61	<i>DEVELOPMENT OF A PROCESS-BASED SUBSURFACE BIOREACTOR MODEL</i> . , 2018, , .		1
62	Assessment of Various Erosion and Sediment Control Practices within an Experimental Facility. , 2011, , .		0
63	<i>EVALUATION OF LIDAR DATA FOR ENGINEERING DESIGN</i> . , 2018, , .		0
64	Comparison of various estimation techniques to predict nitrate load in Maumee River. , 2018, , .		0
65	Analysis of Long-term Trends in Climate Indices and Its Effect on Crop Yield in Illinois. , 2018, , .		0
66	Extensible Framework for Analysis of Farm Practices and Programs. , 2019, , .		0