Young Gu Her

List of Publications by Citations

56 papers	613 citations	15 h-index	23 g-index
73 ext. papers	780 ext. citations	2.9 avg, IF	4.42 L-index

#	Paper	IF	Citations
56	Uncertainty in hydrological analysis of climate change: multi-parameter vs. multi-GCM ensemble predictions. *Scientific Reports*, **2019**, 9, 4974	4.9	79
55	Impact of the numbers of observations and calibration parameters on equifinality, model performance, and output and parameter uncertainty. *Hydrological Processes*, **2015**, 29, 4220-4237	3.3	68
54	Automatic Calibration Tool for Hydrologic Simulation Program-FORTRAN Using a Shuffled Complex Evolution Algorithm. *Water (Switzerland)*, **2015**, 7, 503-527	3	36
53	Biophysical and hydrological effects of future climate change including trends in CO2, in the St. Joseph River watershed, Eastern Corn Belt. *Agricultural Water Management*, **2017**, 180, 280-296	5.9	35
52	Hydrologic and water quality impacts and biomass production potential on marginal land. *Environmental Modelling and Software*, **2015**, 72, 230-238	5.2	31
51	A new framework for modeling decentralized low impact developments using Soil and Water Assessment Tool. *Environmental Modelling and Software*, **2017**, 96, 305-322	5.2	28
50	Evaluation of random forest and regression tree methods for estimation of mass first flush ratio in urban catchments. *Journal of Hydrology*, **2019**, 575, 1099-1110	6	26
49	Effect of Watershed Subdivision and Filter Width on SWAT Simulation of a Coastal Plain Watershed1. *Journal of the American Water Resources Association*, **2010**, 46, 586-602	2.1	25
48	Estimating design floods based on the critical storm duration for small watersheds. *Journal of Hydro-Environment Research*, **2013**, 7, 209-218	2.3	23
47	Implications of spatial and temporal variations in effects of conservation practices on water management strategies. *Agricultural Water Management*, **2017**, 180, 252-266	5.9	22
46	Environmental variables influencing phytoplankton communities in hydrologically connected aquatic habitats in the Lake Xingkai basin. *Ecological Indicators*, **2018**, 91, 1-12	5.8	17
45	Simulink Implementation of a Hydrologic Model: A Tank Model Case Study. *Water (Switzerland)*, **2017**, 9, 639	3	16
44	Exploring parsimonious daily rainfall-runoff model structure using the hyperbolic tangent function and Tank model. *Journal of Hydrology*, **2019**, 574, 574-587	6	15
43	Threshold Effects in HRU Definition ofthe Soil and Water Assessment Tool. *Transactions of the ASABE*, **2015**, 367-378	0.9	15
42	Two-dimensional continuous simulation of spatiotemporally varied hydrological processes using the time-area method. *Hydrological Processes*, **2016**, 30, 751-770	3.3	15
41	Responses of hydrological model equifinality, uncertainty, and performance to multi-objective parameter calibration. *Journal of Hydroinformatics*, **2018**, 20, 864-885	2.6	14
40	Linking watershed modeling and bacterial source tracking to better assess E. coli sources. *Science of the Total Environment*, **2019**, 648, 164-175	10.2	14

39	Design of drainage culverts considering critical storm duration. *Biosystems Engineering*, **2009**, 104, 425-434	4.6	14
38	Regionalization of a Rainfall-Runoff Model: Limitations and Potentials. *Water (Switzerland)*, **2019**, 11, 2257	3	13
37	Integrated sediment transport process modeling by coupling Soil and Water Assessment Tool and Environmental Fluid Dynamics Code. *Environmental Modelling and Software*, **2019**, 116, 26-39	5.2	12
36	Implications of Conceptual Channel Representation on SWAT Streamflow and Sediment Modeling. *Journal of the American Water Resources Association*, **2017**, 53, 725-747	2.1	10
35	Comparison of uncertainty in multi-parameter and multi-model ensemble hydrologic analysis of climate change		7
34	Uncertainty in Regional Climate Change Impact Assessment using Bias-Correction Technique for Future Climate Scenarios. *Journal of the Korean Society of Agricultural Engineers*, **2013**, 55, 95-106		7
33	Sensitivity of Simulated Conservation Practice Effectiveness to Representation of Field and In-Stream Processes in the Little River Watershed. *Environmental Modeling and Assessment*, **2017**, 22, 159-173	2	5
32	Comparing impacts of parameter and spatial data uncertainty for a grid-based distributed watershed model. *Journal of Hydroinformatics*, **2016**, 18, 961-974	2.6	5
31	SWAT+ versus SWAT2012: Comparison of Sub-Daily Urban Runoff Simulations. *Transactions of the ASABE*, **2018**, 61, 1287-1295	0.9	5
30	Development of a Component-Based Modeling Framework for Agricultural Water-Resource Management. *Water (Switzerland)*, **2016**, 8, 351	3	4
29	HYSTAR Sediment Model: Distributed Two-Dimensional Simulation of Watershed Erosion and Sediment Transport Using Time-Area Routing. *Journal of the American Water Resources Association*, **2016**, 52, 376-396	2.1	4
28	Improvement of simulating sub-daily hydrological impacts of rainwater harvesting for landscape irrigation with rain barrels/cisterns in the SWAT model. *Science of the Total Environment*, **2021**, 798, 149336	10.2	4
27	Interpolating SRTM Elevation Data to Higher Resolution to Improve Hydrologic Analysis. *Journal of the American Water Resources Association*, **2015**, 51, 1072-1087	2.1	3
26	Application of Parallel Computing Methods for Improving Efficiency of Optimization in Hydrologic and Water Quality Modeling. *Applied Engineering in Agriculture*, **2015**, 455-468	0.8	3
25	Alternative CN Averaging Methods for Determining the Representative CN of a Watershed. *Journal of Irrigation and Drainage Engineering - ASCE*, **2016**, 142, 06016004	1.1	3
24	Curve Numbers for Rice Paddies with Different Water Management Practices in Korea. *Journal of Irrigation and Drainage Engineering - ASCE*, **2019**, 145, 06019003	1.1	3
23	Lessons from Assessing Uncertainty in Agricultural Water Supply Estimation for Sustainable Rice Production. *Agronomy*, **2019**, 9, 662	3.6	3
22	Evaluating the performance of climate models in reproducing the hydrological characteristics of rainfall events. *Hydrological Sciences Journal*, **2020**, 65, 1490-1511	3.5	3

21	Assessing the Potential of Agricultural Reservoirs as the Source of Environmental Flow. *Water (Switzerland)*, **2021**, 13, 508	3	3
20	A simulation model for estimating root zone saturation indices of agricultural crops in a shallow aquifer and canal system. *Agricultural Water Management*, **2019**, 220, 36-49	5.9	2
19	Evaluating the Applicability of Drainage Routing Schemes for Paddy Fields. *Journal of Irrigation and Drainage Engineering - ASCE*, **2020**, 146, 04020027	1.1	2
18	Assessing Applicability of SWAT Calibrated at Multiple Spatial Scales from Field to Stream. *Journal of the Korean Society of Agricultural Engineers*, **2015**, 57, 21-39		2
17	Multi-Temporal Arable Land Monitoring in Arid Region of Northwest China Using a New Extraction Index. *Sustainability*, **2021**, 13, 5274	3.6	2
16	Characteristics of Arsenic Leached from Sediments: Agricultural Implications of Abandoned Mines. *Applied Sciences (Switzerland)*, **2019**, 9, 4628	2.6	2
15	Immediate influences of a large dam construction on local storm event patterns and weather variables: a case study of the Three Gorges Project. *Weather*, **2020**, 75, 99-103	0.9	2
14	Assessing the Effects of Irrigation Water Salinity on Two Ornamental Crops by Remote Spectral Imaging. *Agronomy*, **2021**, 11, 375	3.6	2
13	Characteristics of biochemical oxygen demand and chemical oxygen demand export from paddy fields during rainfall and non-rainfall periods. *Paddy and Water Environment*, **2019**, 17, 165-175	1.6	1
12	Uncertainty in Irrigation Return Flow Estimation: Comparing Conceptual and Physically-Based Parameterization Approaches. *Water (Switzerland)*, **2020**, 12, 1125	3	1
11	Characteristics of chloride loading from urban and agricultural watersheds during storm and non-storm periods. *Water Science and Technology: Water Supply*, **2021**, 21, 1567-1579	1.4	1
10	Estimating USLE Soil Erosion through GIS-based Decision Support System. *Journal of the Korean Society of Agricultural Engineers*, **2006**, 48, 3-14		1
9	Evaluating the effectiveness of HOCl application on odor reduction and earthworm population growth during vermicomposting of food waste employing Eisenia fetida. *PLoS ONE*, **2019**, 14, e0226229	3.7	1
8	Identification of Hydrologically Sensitive Areas Considering Watershed Process Dynamics. *Transactions of the ASABE*, **2018**, 61, 1891-1906	0.9	1
7	Watershed Response to Legacy Phosphorus and Best Management Practices in an Impacted Agricultural Watershed in Florida, U.S.A.. *Land*, **2021**, 10, 977	3.5	1
6	Identifying feasible nonpoint source pollutant sampling intervals for watersheds with paddy field and urban land uses. *Water Science and Technology: Water Supply*, **2021**, 21, 780-790	1.4	0
5	Parallelization of a two-dimensional time-area watershed routing. *Environmental Modelling and Software*, **2021**, 146, 105222	5.2	0
4	Evaluating Hydrologic Behavior of Hydrology Simulation using Time Area (HYSTAR) Model through Sensitivity Analysis. *Journal of the Korean Society of Agricultural Engineers*, **2015**, 57, 41-54		

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3	Evaluating Applicability of Sediment Transport Capacity Equations through Sensitivity Analysis. *Journal of the Korean Society of Agricultural Engineers*, **2015**, 57, 79-90	
2	Evaluating Applicability of SRTM DEM (Shuttle Radar Topography Mission Digital Elevation Model) in Hydrologic Analysis: A Case Study of Geum River and Daedong River Areas. *Journal of the Korean Society of Agricultural Engineers*, **2013**, 55, 101-112	
1	Regional-scale monitoring of underwater and dry ground subsidence in high phreatic areas of North China Plain. *PLoS ONE*, **2020**, 15, e0237878	3.7