Wei Gong

List of Publications by Year
in descending order

44 papers	2,219 citations	257357 24 h-index	243529 44 g-index
47 all docs	47 docs citations	47 times ranked	2712 citing authors

#	Article	IF	Citations
1	A comprehensive evaluation of various sensitivity analysis methods: A case study with a hydrological model. Environmental Modelling and Software, 2014, 51, 269-285.	1.9	242
2	Evolution of the Yellow River Delta and its relationship with runoff and sediment load from 1983 to 2011. Journal of Hydrology, 2015, 520, 157-167.	2.3	231
3	An evaluation of adaptive surrogate modeling based optimization with two benchmark problems. Environmental Modelling and Software, 2014, 60, 167-179.	1.9	180
4	Assessment of CMIP5 climate models and projected temperature changes over Northern Eurasia. Environmental Research Letters, 2014, 9, 055007.	2.2	167
5	A review on statistical postprocessing methods for hydrometeorological ensemble forecasting. Wiley Interdisciplinary Reviews: Water, 2017, 4, e1246.	2.8	121
6	Estimating epistemic and aleatory uncertainties during hydrologic modeling: An information theoretic approach. Water Resources Research, 2013, 49, 2253-2273.	1.7	87
7	Sub-regional groundwater storage recovery in North China Plain after the South-to-North water diversion project. Journal of Hydrology, 2021, 597, 126156.	2.3	70
8	Assessing parameter importance of the Common Land Model based on qualitative and quantitative sensitivity analysis. Hydrology and Earth System Sciences, 2013, 17, 3279-3293.	1.9	69
9	The Effectiveness of the Southâ€toâ€North Water Diversion Middle Route Project on Water Delivery and Groundwater Recovery in North China Plain. Water Resources Research, 2020, 56, e2019WR026759.	1.7	64
10	Would the â€˜realâ€™ observed dataset stand up? A critical examination of eight observed gridded climate datasets for China. Environmental Research Letters, 2014, 9, 015001.	2.2	63
11	Multiobjective adaptive surrogate modelingâ€based optimization for parameter estimation of large, complex geophysical models. Water Resources Research, 2016, 52, 1984-2008.	1.7	63
12	Multi-objective parameter optimization of common land model using adaptive surrogate modeling. Hydrology and Earth System Sciences, 2015, 19, 2409-2425.	1.9	60
13	Assessing WRF model parameter sensitivity: A case study with 5 day summer precipitation forecasting in the Greater Beijing Area. Geophysical Research Letters, 2015, 42, 579-587.	1.5	58
14	Estimating information entropy for hydrological data: Oneâ€dimensional case. Water Resources Research, 2014, 50, 5003-5018.	1.7	57
15	Evaluating the skill of NMME seasonal precipitation ensemble predictions for 17 hydroclimatic regions in continental China. International Journal of Climatology, 2016, 36, 132-144.	1.5	56
16	The hydro-environmental response on the lower Yellow River to the waterâ€“sediment regulation scheme. Ecological Engineering, 2015, 79, 69-79.	1.6	51
17	An evaluation of post-processed TIGGE multimodel ensemble precipitation forecast in the Huai river basin. Journal of Hydrology, 2014, 519, 2890-2905.	2.3	50
18	A GUI platform for uncertainty quantification of complex dynamical models. Environmental Modelling and Software, 2016, 76, 1-12.	1.9	44

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19	Improving WRF model turbine-height wind-speed forecasting using a surrogate- based automatic optimization method. Atmospheric Research, 2019, 226, 1-16.	1.8	39
20	The Evaluation of SMAP Enhanced Soil Moisture Products Using High-Resolution Model Simulations and In-Situ Observations on the Tibetan Plateau. Remote Sensing, 2018, 10, 535.	1.8	37
21	An adaptive surrogate modeling-based sampling strategy for parameter optimization and distribution estimation (ASMO-PODE). Environmental Modelling and Software, 2017, 95, 61-75.	1.9	35
22	Evaluating Skill of Seasonal Precipitation and Temperature Predictions of NCEP CFSv2 Forecasts over 17 Hydroclimatic Regions in China. Journal of Hydrometeorology, 2014, 15, 1546-1559.	0.7	34
23	Assessing the weighted multi-objective adaptive surrogate model optimization to derive large-scale reservoir operating rules with sensitivity analysis. Journal of Hydrology, 2017, 544, 613-627.	2.3	32
24	Variations in global temperature and precipitation for the period of 1948 to 2010. Environmental Monitoring and Assessment, 2014, 186, 5663-5679.	1.3	29
25	An estimate of human and natural contributions to flood changes of the Huai River. Global and Planetary Change, 2014, 119, 39-50.	1.6	24
26	An evaluation of parametric sensitivities of different meteorological variables simulated by the <scp>WRF</scp> model. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 2925-2934.	1.0	24
27	Parameter optimization for carbon and water fluxes in two global land surface models based on surrogate modelling. International Journal of Climatology, 2018, 38, e1016.	1.5	23
28	Parameter Sensitivity Analysis for Computationally Intensive Spatially Distributed Dynamical Environmental Systems Models. Journal of Advances in Modeling Earth Systems, 2019, 11, 2896-2909.	1.3	21
29	Combinatorial Optimization for WRF Physical Parameterization Schemes: A Case Study of Three-Day Typhoon Simulations over the Northwest Pacific Ocean. Atmosphere, 2019, 10, 233.	1.0	19
30	Post-processing of ensemble forecasts in low-flow period. Hydrological Processes, 2015, 29, 2438-2453.	1.1	17
31	Assessing the applicability of WRF optimal parameters under the different precipitation simulations in the Greater Beijing Area. Climate Dynamics, 2018, 50, 1927-1948.	1.7	17
32	An approach to quantifying the efficiency of a Bayesian filter. Water Resources Research, 2013, 49, 2164-2173.	1.7	16
33	Comparison of the Generalized Likelihood Uncertainty Estimation and Markov Chain Monte Carlo Methods for Uncertainty Analysis of the ORYZA_V3 Model. Agronomy Journal, 2019, 111, 555-564.	0.9	16
34	Evaluation of parameter interaction effect of hydrological models using the sparse polynomial chaos (SPC) method. Environmental Modelling and Software, 2020, 125, 104612.	1.9	15
35	Parametric sensitivity analysis of precipitation and temperature based on multi-uncertainty quantification methods in the Weather Research and Forecasting model. Science China Earth Sciences, 2017, 60, 876-898.	2.3	13
36	Quantifying Contributions of Uncertainties in Physical Parameterization Schemes and Model Parameters to Overall Errors in Noahâ€MP Dynamic Vegetation Modeling. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001914.	1.3	11

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37	The response of relative humidity to centennial-scale warming over the southeastern Tibetan Plateau inferred from tree-ring width chronologies. Climate Dynamics, 2018, 51, 3735-3746.	1.7	8
38	A Combined Optimizationâ€Assimilation Framework to Enhance the Predictive Skill of Community Land Model. Water Resources Research, 2021, 57, e2021WR029879.	1.7	8
39	A Microbial Functional Groupâ€Based CH₄ Model Integrated Into a Terrestrial Ecosystem Model: Model Structure, Siteâ€Level Evaluation, and Sensitivity Analysis. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001867.	1.3	7
40	Estimating Economic Losses Caused by COVID-19 under Multiple Control Measure Scenarios with a Coupled Infectious Diseaseâ€"Economic Model: A Case Study in Wuhan, China. International Journal of Environmental Research and Public Health, 2021, 18, 11753.	1.2	7
41	How parameter specification of an Earth system model of intermediate complexity influences its climate simulations. Progress in Earth and Planetary Science, 2019, 6, .	1.1	6
42	An Objective Approach to Generating Multi-Physics Ensemble Precipitation Forecasts Based on the WRF Model. Journal of Meteorological Research, 2020, 34, 601-620.	0.9	6
43	Improved Land Evapotranspiration Simulation of the Community Land Model Using a Surrogate-Based Automatic Parameter Optimization Method. Water (Switzerland), 2020, 12, 943.	1.2	6
44	Flow and heat transfer enhancement in condensing water drops in steam flows. Applied Physics Letters, 2014, 104, .	1.5	5