

Bill X Hu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

1,179
citations

20
h-index

30
g-index

90
ext. papers

1,500
ext. citations

4.6
avg, IF

4.9
L-index

#	Paper	IF	Citations
86	A voxel-based three-dimensional framework for flash drought identification in space and time. <i>Journal of Hydrology</i> , 2022 , 608, 127568	6	1
85	Evaluation and optimization of the water diversion system of ecohydrological restoration megaproject of Tarim River, China, through wavelet analysis and a neural network. <i>Journal of Hydrology</i> , 2022 , 608, 127586	6	2
84	Spatial distribution and source apportionment of polycyclic aromatic hydrocarbons in typical oasis soil of north-western China and the bacterial community response. <i>Environmental Research</i> , 2022 , 204, 112401	7.9	3
83	Simulation of regional groundwater levels in arid regions using interpretable machine learning models.. <i>Science of the Total Environment</i> , 2022 , 831, 154902	10.2	0
82	Prediction of the Irrigation Area Carrying Capacity in the Tarim River Basin under Climate Change. <i>Agriculture (Switzerland)</i> , 2022 , 12, 657	3	1
81	Decadal exploration of karst hydrogeology in the Woodville Karst Plain (WKP): A review of field investigation and modeling development. <i>Journal of Hydrology</i> , 2021 , 594, 125937	6	0
80	Data assimilation with multiple types of observation boreholes via the ensemble Kalman filter embedded within stochastic moment equations. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 1689-1705	5.5	1
79	Copula-based risk evaluation of global meteorological drought in the 21st century based on CMIP5 multi-model ensemble projections. <i>Journal of Hydrology</i> , 2021 , 598, 126265	6	7
78	Bacterial community variations with salinity in the saltwater-intruded estuarine aquifer. <i>Science of the Total Environment</i> , 2021 , 755, 142423	10.2	7
77	Using an ensemble Kalman filter method to calibrate parameters of a prediction model for chemical transport from soil to surface runoff. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 4404-4416	5.1	3
76	An efficient fractional-in-time transient storage model for simulating the multi-peaked breakthrough curves. <i>Journal of Hydrology</i> , 2021 , 600, 126570	6	
75	Uncertainty assessment of drought characteristics projections in humid subtropical basins in China based on multiple CMIP5 models and different index definitions. <i>Journal of Hydrology</i> , 2021 , 600, 126502	6	5
74	Global precipitation-related extremes at 1.5°C and 2°C of global warming targets: Projection and uncertainty assessment based on the CESM-LWR experiment. <i>Atmospheric Research</i> , 2021 , 264, 105868	5.4	1
73	A review of applications of fractional advection–dispersion equations for anomalous solute transport in surface and subsurface water. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020 , 7, e1448	5.7	7
72	Comparison of the groundwater microbial community in a salt-freshwater mixing zone during the dry and wet seasons. <i>Journal of Environmental Management</i> , 2020 , 271, 110969	7.9	7
71	Influence of lunar semidiurnal tides on groundwater dynamics in estuarine aquifers. <i>Hydrogeology Journal</i> , 2020 , 28, 1419-1429	3.1	4
70	Integration of moment equations in a reduced-order modeling strategy for Monte Carlo simulations of groundwater flow. <i>Journal of Hydrology</i> , 2020 , 590, 125257	6	2

69	Future Precipitation-Driven Meteorological Drought Changes in the CMIP5 Multimodel Ensembles under 1.5°C and 2°C Global Warming. <i>Journal of Hydrometeorology</i> , 2020 , 21, 2177-2196	3.7	13
68	Hierarchical sensitivity analysis for a large-scale process-based hydrological model applied to an Amazonian watershed. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 4971-4996	5.5	
67	Comparison of negative skewed space fractional models with time nonlocal approaches for stream solute transport modeling. <i>Journal of Hydrology</i> , 2020 , 582, 124504	6	3
66	An efficient approximation of non-Fickian transport using a time-fractional transient storage model. <i>Advances in Water Resources</i> , 2020 , 135, 103486	4.7	4
65	Grid convergence for numerical solutions of stochastic moment equations of groundwater flow. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 1565-1579	3.5	3
64	Numerical study of groundwater flow cycling controlled by seawater/freshwater interaction in Woodville Karst Plain. <i>Journal of Hydrology</i> , 2019 , 579, 124171	6	7
63	Characterizing microbial diversity and community composition of groundwater in a salt-freshwater transition zone. <i>Science of the Total Environment</i> , 2019 , 678, 574-584	10.2	29
62	Quantifying the integrated water and carbon cycle in a data-limited karst basin using a process-based hydrologic model. <i>Environmental Earth Sciences</i> , 2019 , 78, 1	2.9	2
61	Projection and uncertainty of precipitation extremes in the CMIP5 multimodel ensembles over nine major basins in China. <i>Atmospheric Research</i> , 2019 , 226, 122-137	5.4	38
60	A sixteen-year reduction in the concentrations of aquatic PAHs corresponding to source shifts in the Elbe River, Germany. <i>Journal of Cleaner Production</i> , 2019 , 223, 631-640	10.3	15
59	Using Bayesian Networks for Sensitivity Analysis of Complex Biogeochemical Models. <i>Water Resources Research</i> , 2019 , 55, 3541-3555	5.4	14
58	Projected changes of temperature extremes over nine major basins in China based on the CMIP5 multimodel ensembles. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 321-339	3.5	13
57	Comparative analysis of meteorological and hydrological drought over the Pearl River basin in southern China 2019 , 50, 301-318		11
56	Prediction of groundwater level in seashore reclaimed land using wavelet and artificial neural network-based hybrid model. <i>Journal of Hydrology</i> , 2019 , 577, 123948	6	27
55	Recent intensification of short-term concurrent hot and dry extremes over the Pearl River basin, China. <i>International Journal of Climatology</i> , 2019 , 39, 4924-4937	3.5	4
54	Hierarchical sensitivity analysis for simulating barrier island geomorphologic responses to future storms and sea-level rise. <i>Theoretical and Applied Climatology</i> , 2019 , 136, 1495-1511	3	3
53	Global Analysis of the Role of Terrestrial Water Storage in the Evapotranspiration Estimated from the Budyko Framework at Annual to Monthly Time Scales. <i>Journal of Hydrometeorology</i> , 2019 , 20, 2003-2021	3.7	10
52	Simulating seawater intrusion in a complex coastal karst aquifer using an improved variable-density flow and solute transport conduit flow process model. <i>Hydrogeology Journal</i> , 2019 , 27, 1277-1289	3.1	9

51	Composition and functional diversity of microbial community across a mangrove-inhabited mudflat as revealed by 16S rDNA gene sequences. <i>Science of the Total Environment</i> , 2018 , 633, 518-528	10.2	62
50	Effect of intermittent operation model on the function of soil infiltration system. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 9615-9625	5.1	2
49	Evaluating equilibrium and non-equilibrium transport of ammonium in a loam soil column. <i>Hydrological Processes</i> , 2018 , 32, 80-92	3.3	6
48	Assessment of alternative adsorption models and global sensitivity analysis to characterize hexavalent chromium loss from soil to surface runoff. <i>Hydrological Processes</i> , 2018 , 32, 3140-3157	3.3	7
47	Data Assimilation in Density-Dependent Subsurface Flows via Localized Iterative Ensemble Kalman Filter. <i>Water Resources Research</i> , 2018 , 54, 6259-6281	5.4	5
46	Diversity and predictive metabolic pathways of the prokaryotic microbial community along a groundwater salinity gradient of the Pearl River Delta, China. <i>Scientific Reports</i> , 2018 , 8, 17317	4.9	13
45	Potential Impacts of Climate Variation on Potato Field Evapotranspiration: Field Experiment and Numerical Simulation of Potato Water Use in an Arid Site. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10,202	4.4	4
44	Controlling factors of errors in the predicted annual and monthly evaporation from the Budyko framework. <i>Advances in Water Resources</i> , 2018 , 121, 432-445	4.7	9
43	Numerical modeling and sensitivity analysis of seawater intrusion in a dual-permeability coastal karst aquifer with conduit networks. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 221-239	5.5	27
42	Responses of runoff to historical and future climate variability over China. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 1971-1991	5.5	14
41	Characterization, modeling, and remediation of karst in a changing environment. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	6
40	The effects of monsoons and climate teleconnections on the Niangziguan Karst Spring discharge in North China. <i>Climate Dynamics</i> , 2017 , 48, 53-70	4.2	14
39	Development of a discrete-continuum VDFST-CFP numerical model for simulating seawater intrusion to a coastal karst aquifer with a conduit system. <i>Water Resources Research</i> , 2017 , 53, 688-711	5.4	22
38	Effects of climate and terrestrial storage on temporal variability of actual evapotranspiration. <i>Journal of Hydrology</i> , 2017 , 549, 388-403	6	22
37	Hydrogeochemical characterization and groundwater quality assessment in intruded coastal brine aquifers (Laizhou Bay, China). <i>Environmental Science and Pollution Research</i> , 2017 , 24, 21073-21090	5.1	23
36	On the teleconnection patterns to precipitation in the eastern Tianshan Mountains, China. <i>Climate Dynamics</i> , 2017 , 49, 3123-3139	4.2	15
35	Comparison between gradient based UCODE_2005 and the ensemble Kalman Filter for transient groundwater flow inverse modeling. <i>Science China Earth Sciences</i> , 2017 , 60, 899-909	4.6	
34	Long distance seawater intrusion through a karst conduit network in the Woodville Karst Plain, Florida. <i>Scientific Reports</i> , 2016 , 6, 32235	4.9	20

33	Grain-Size Based Additivity Models for Scaling Multi-rate Uranyl Surface Complexation in Subsurface Sediments. <i>Mathematical Geosciences</i> , 2016 , 48, 511-535	2.5	3
32	Experimental and numerical investigations of soil water balance at the hinterland of the Badain Jaran Desert for groundwater recharge estimation. <i>Journal of Hydrology</i> , 2016 , 540, 386-396	6	22
31	Identification of hydraulic conductivity distributions in density dependent flow fields of submarine groundwater discharge modeling using adjoint-state sensitivities. <i>Science China Earth Sciences</i> , 2016 , 59, 770-779	4.6	1
30	Numerical study on tide-driven submarine groundwater discharge and seawater recirculation in heterogeneous aquifers. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 1741-1755	3.5	10
29	Experimental and modeling study on Cr(VI) transfer from soil into surface runoff. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 1347-1361	3.5	4
28	Numerical Simulation of Groundwater Flow and Solute Transport in a Karst Aquifer with Conduits 2016 ,		2
27	Experimental study on soluble chemical transfer to surface runoff from soil. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 20378-20387	5.1	5
26	Using a hybrid model to predict solute transfer from initially saturated soil into surface runoff with controlled drainage water. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 12444-55	5.1	5
25	Application of Wavelet Coherence Method to Investigate Karst Spring Discharge Response to Climate Teleconnection Patterns. <i>Journal of the American Water Resources Association</i> , 2016 , 52, 1281-1296	2.1	11
24	Simulating long term nitrate-N contamination processes in the Woodville Karst Plain using CFPv2 with UMT3D. <i>Journal of Hydrology</i> , 2015 , 524, 72-88	6	37
23	Numerical study of groundwater flow cycling controlled by seawater/freshwater interaction in a coastal karst aquifer through conduit network using CFPv2. <i>Journal of Contaminant Hydrology</i> , 2015 , 182, 131-45	3.9	24
22	Application of a data assimilation method via an ensemble Kalman filter to reactive urea hydrolysis transport modeling. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 729-741	3.5	3
21	Theoretical Application of Ensemble Kalman Filter to Adsorptive Solute Cr(VI) Transfer from Soil into Surface Runoff. <i>Advanced Materials Research</i> , 2014 , 919-921, 1257-1261	0.5	
20	Simulating flow in karst aquifers at laboratory and sub-regional scales using MODFLOW-CFP. <i>Hydrogeology Journal</i> , 2013 , 21, 1749-1760	3.1	52
19	Proper orthogonal decomposition reduced model for mass transport in heterogenous media. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 1181-1191	3.5	7
18	Model reduction of a coupled numerical model using proper orthogonal decomposition. <i>Journal of Hydrology</i> , 2013 , 507, 227-240	6	10
17	Data assimilation methods for estimating a heterogeneous conductivity field by assimilating transient solute transport data via ensemble Kalman filter. <i>Hydrological Processes</i> , 2013 , 27, 3873-3884	3.3	12
16	Using an Ensemble Kalman Filter Method to Calibrate Parameters and Update Soluble Chemical Transfer From Soil to Surface Runoff. <i>Transport in Porous Media</i> , 2012 , 91, 133-152	3.1	7

15	Assimilating transient groundwater flow data via a localized ensemble Kalman filter to calibrate a heterogeneous conductivity field. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012 , 26, 467-478	3.5	20
14	Numerical Modeling of Wheat Irrigation using Coupled HYDRUS and WOFOST Models. <i>Soil Science Society of America Journal</i> , 2012 , 76, 648-662	2.5	48
13	Examining a Coupled Continuum Pipe-Flow Model for Groundwater Flow and Solute Transport in a Karst aquifer. <i>Acta Carsologica</i> , 2012 , 39,	1.7	4
12	Using data assimilation method to calibrate a heterogeneous conductivity field conditioning on transient flow test data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010 , 24, 1211-1223	3.5	20
11	Experimental study and mathematical modelling of soluble chemical transfer from unsaturated/saturated soil to surface runoff. <i>Hydrological Processes</i> , 2010 , 24, 3065-3073	3.3	22
10	Examining the influence of heterogeneous porosity fields on conservative solute transport. <i>Journal of Contaminant Hydrology</i> , 2009 , 108, 77-88	3.9	34
9	Laboratory analog and numerical study of groundwater flow and solute transport in a karst aquifer with conduit and matrix domains. <i>Journal of Contaminant Hydrology</i> , 2009 , 110, 34-44	3.9	47
8	Using data assimilation method to calibrate a heterogeneous conductivity field and improve solute transport prediction with an unknown contamination source. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 1155-1167	3.5	37
7	Submarine ground water discharge driven by tidal pumping in a heterogeneous aquifer. <i>Ground Water</i> , 2009 , 47, 558-68	2.4	92
6	Using the Sequential Self-calibration Method and Genetic Algorithm Method to Optimally Design Tracer Test to Estimate Conductivity Distribution. <i>Transport in Porous Media</i> , 2007 , 67, 31-48	3.1	4
5	Stochastic study of solute transport in a nonstationary medium. <i>Ground Water</i> , 2006 , 44, 222-33	2.4	2
4	Stochastic study on groundwater flow and solute transport in a porous medium with multi-scale heterogeneity. <i>Advances in Water Resources</i> , 2003 , 26, 541-560	4.7	6
3	Nonlocal nonreactive transport in heterogeneous porous media with interregional mass diffusion. <i>Water Resources Research</i> , 2000 , 36, 1665-1675	5.4	24
2	Nonlocal Reactive Transport with Physical and Chemical Heterogeneity: Linear Nonequilibrium Sorption with Random Kd. <i>Water Resources Research</i> , 1995 , 31, 2239-2252	5.4	72
1	Modeling water balance using the Budyko framework over variable timescales under diverse climates		4