

Dingbao Wang

List of Publications by Year in descending order

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93
papers

4,516
citations

126907

33
h-index

106344

65
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95
all docs

95
docs citations

95
times ranked

4976
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying the relative contribution of the climate and direct human impacts on mean annual streamflow in the contiguous United States. <i>Water Resources Research</i> , 2011, 47, .	4.2	451
2	Land Availability for Biofuel Production. <i>Environmental Science & Technology</i> , 2011, 45, 334-339.	10.0	361
3	Separating the impacts of climate change and human activities on runoff using the Budyko-type equations with time-varying parameters. <i>Journal of Hydrology</i> , 2015, 522, 326-338.	5.4	249
4	The dynamic effects of sea level rise on low- Δ gradient coastal landscapes: A review. <i>Earth's Future</i> , 2015, 3, 159-181.	6.3	236
5	A one-parameter Budyko model for water balance captures emergent behavior in darwinian hydrologic models. <i>Geophysical Research Letters</i> , 2014, 41, 4569-4577.	4.0	216
6	Monthly streamflow forecasting using Gaussian Process Regression. <i>Journal of Hydrology</i> , 2014, 511, 72-81.	5.4	187
7	Climate change impacts on crop production in Iran's Zayandeh-Rud River Basin. <i>Science of the Total Environment</i> , 2013, 442, 405-419.	8.0	179
8	Climate change impact on meteorological, agricultural, and hydrological drought in central Illinois. <i>Water Resources Research</i> , 2011, 47, .	4.2	150
9	Modeling interannual variability of seasonal evaporation and storage change based on the extended Budyko framework. <i>Water Resources Research</i> , 2013, 49, 6067-6078.	4.2	138
10	Responses of annual runoff, evaporation, and storage change to climate variability at the watershed scale. <i>Water Resources Research</i> , 2012, 48, .	4.2	117
11	Climate change impact and uncertainty analysis of extreme rainfall events in the Apalachicola River basin, Florida. <i>Journal of Hydrology</i> , 2013, 480, 125-135.	5.4	86
12	Evaluating interannual water storage changes at watersheds in Illinois based on long-term soil moisture and groundwater level data. <i>Water Resources Research</i> , 2012, 48, .	4.2	85
13	Advancing catchment hydrology to deal with predictions under change. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 649-671.	4.9	83
14	Karst catchments exhibited higher degradation stress from climate change than the non-karst catchments in southwest China: An ecohydrological perspective. <i>Journal of Hydrology</i> , 2016, 535, 173-180.	5.4	83
15	Assessing interannual variability of evapotranspiration at the catchment scale using satellite-based evapotranspiration data sets. <i>Water Resources Research</i> , 2011, 47, .	4.2	77
16	State and parameter estimation of hydrologic models using the constrained ensemble Kalman filter. <i>Water Resources Research</i> , 2009, 45, .	4.2	76
17	Irrigation Scheduling's Role of Weather Forecasting and Farmers' Behavior. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2009, 135, 364-372.	2.6	71
18	Detecting human interferences to low flows through base flow recession analysis. <i>Water Resources Research</i> , 2009, 45, .	4.2	66

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19	Snow cover and runoff modelling in a high mountain catchment with scarce data: effects of temperature and precipitation parameters. <i>Hydrological Processes</i> , 2015, 29, 52-65.	2.6	64
20	From channelization to restoration: Sociohydrologic modeling with changing community preferences in the Kissimmee River Basin, Florida. <i>Water Resources Research</i> , 2016, 52, 1227-1244.	4.2	59
21	Value of Probabilistic Weather Forecasts: Assessment by Real-Time Optimization of Irrigation Scheduling. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011, 137, 391-403.	2.6	56
22	Comparative study of climate and human impacts on seasonal baseflow in urban and agricultural watersheds. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	54
23	Hydrologic controls on junction angle of river networks. <i>Water Resources Research</i> , 2017, 53, 4073-4083.	4.2	51
24	The response of runoff and sediment loading in the Apalachicola River, Florida to climate and land use land cover change. <i>Earth's Future</i> , 2016, 4, 124-142.	6.3	47
25	Wet channel network extraction by integrating LiDAR intensity and elevation data. <i>Water Resources Research</i> , 2015, 51, 10029-10046.	4.2	44
26	Assessing the regional variability of GCM simulations. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	43
27	Calibrating Holistic Water Resources Economic Models. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2006, 132, 414-423.	2.6	40
28	On the base flow recession at the Panola Mountain Research Watershed, Georgia, United States. <i>Water Resources Research</i> , 2011, 47, .	4.2	40
29	Reconstructing annual groundwater storage changes in a large-scale irrigation region using GRACE data and Budyko model. <i>Journal of Hydrology</i> , 2017, 551, 397-406.	5.4	40
30	A thermodynamic interpretation of Budyko and L'vovich formulations of annual water balance: Proportionality Hypothesis and maximum entropy production. <i>Water Resources Research</i> , 2015, 51, 3007-3016.	4.2	39
31	Hydrodynamic modeling and analysis of sea-level rise impacts on salinity for oyster growth in Apalachicola Bay, Florida. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 156, 7-18.	2.1	38
32	Valley and channel networks extraction based on local topographic curvature and <i>k</i> -means clustering of contours. <i>Water Resources Research</i> , 2016, 52, 8081-8102.	4.2	37
33	Evaluating the role of watershed properties in long-term water balance through a Budyko equation based on two-stage partitioning of precipitation. <i>Water Resources Research</i> , 2017, 53, 4142-4157.	4.2	37
34	Investigation of the impacts of local-scale hydrogeologic conditions on sinkhole occurrence in East-Central Florida, USA. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	36
35	Impact of Climate Change on Crop Yield: A Case Study of Rainfed Corn in Central Illinois. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 1868-1881.	1.5	35
36	Temporal variation and scaling of parameters for a monthly hydrologic model. <i>Journal of Hydrology</i> , 2018, 558, 290-300.	5.4	34

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37	Identification of hydrological model parameter variation using ensemble Kalman filter. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4949-4961.	4.9	33
38	Spatial autocorrelation of topographic index in catchments. <i>Journal of Hydrology</i> , 2006, 328, 581-591.	5.4	32
39	Recession slope curve analysis under human interferences. <i>Advances in Water Resources</i> , 2010, 33, 1053-1061.	3.8	32
40	Exploration of the effects of storm surge on the extent of saltwater intrusion into the surficial aquifer in coastal east-central Florida (USA). <i>Science of the Total Environment</i> , 2019, 648, 1002-1017.	8.0	32
41	Optimal estimation of irrigation schedule – An example of quantifying human interferences to hydrologic processes. <i>Advances in Water Resources</i> , 2007, 30, 1844-1857.	3.8	31
42	Integrated Hydrologic-Hydrodynamic Modeling of Estuarine-Riverine Flooding: 2008 Tropical Storm Fay. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	1.9	31
43	An analytical solution of Richards' equation providing the physical basis of SCS curve number method and its proportionality relationship. <i>Water Resources Research</i> , 2016, 52, 6611-6620.	4.2	29
44	Quantifying Climatic Controls on River Network Branching Structure Across Scales. <i>Water Resources Research</i> , 2018, 54, 7347-7360.	4.2	29
45	Integrated Hydrologic and Reservoir Routing Model for Real-Time Water Level Forecasts. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	1.9	28
46	Unifying catchment water balance models for different time scales through the maximum entropy production principle. <i>Water Resources Research</i> , 2016, 52, 7503-7512.	4.2	28
47	On the transition of base flow recession from early stage to late stage. <i>Advances in Water Resources</i> , 2016, 88, 8-13.	3.8	27
48	A new probability density function for spatial distribution of soil water storage capacity leads to the SCS curve number method. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 6567-6578.	4.9	26
49	Robust data assimilation in hydrological modeling – A comparison of Kalman and H-infinity filters. <i>Advances in Water Resources</i> , 2008, 31, 455-472.	3.8	25
50	Assessing sea-level rise impact on saltwater intrusion into the root zone of a geo-typical area in coastal east-central Florida. <i>Science of the Total Environment</i> , 2018, 630, 211-221.	8.0	25
51	Urbanization Impacts on Evapotranspiration Across Various Spatio-temporal Scales. <i>Earth's Future</i> , 2021, 9, e2021EF002045.	6.3	25
52	Modelling time-variant parameters of a two-parameter monthly water balance model. <i>Journal of Hydrology</i> , 2019, 573, 918-936.	5.4	24
53	Estimation of nonfluctuating reservoir inflow from water level observations using methods based on flow continuity. <i>Journal of Hydrology</i> , 2015, 529, 1198-1210.	5.4	23
54	A Budyko-type model for human water consumption. <i>Journal of Hydrology</i> , 2018, 567, 212-226.	5.4	23

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55	HESS Opinions: Beyond the long-term water balance: evolving Budyko's supply-demand framework for the Anthropocene towards a global synthesis of land-surface fluxes under natural and human-altered watersheds. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1975-1984.	4.9	20
56	Assessing the impacts of sea-level rise and precipitation change on the surficial aquifer in the low-lying coastal alluvial plains and barrier islands, east-central Florida (USA). <i>Hydrogeology Journal</i> , 2016, 24, 1791-1806.	2.1	19
57	The Roles of Climate Forcing and Its Variability on Streamflow at Daily, Monthly, Annual, and Long-Term Scales. <i>Water Resources Research</i> , 2020, 56, e2020WR027111.	4.2	19
58	Interval Two-Stage Stochastic Integer Programming for Urban Water Resource Management under Uncertainty. <i>Journal of Coastal Research</i> , 2015, 73, 160-165.	0.3	17
59	A New Framework for Exploring Process Controls of Flow Duration Curves. <i>Water Resources Research</i> , 2020, 56, e2019WR026083.	4.2	17
60	State estimation of tidal hydrodynamics using ensemble Kalman filter. <i>Advances in Water Resources</i> , 2014, 63, 45-56.	3.8	15
61	Modeling seasonal surface runoff and base flow based on the generalized proportionality hypothesis. <i>Journal of Hydrology</i> , 2015, 527, 367-379.	5.4	15
62	Climate Change Impact on Runoff and Sediment Loads to the Apalachicola River at Seasonal and Event Scales. <i>Journal of Coastal Research</i> , 2014, 68, 35-42.	0.3	14
63	Climatic and Landscape Controls on Long-Term Baseflow. <i>Water Resources Research</i> , 2021, 57, e2020WR029284.	4.2	14
64	River environmental decision support system development for Suzhou Creek in Shanghai. <i>Journal of Environmental Management</i> , 2011, 92, 2211-2221.	7.8	13
65	Evaluation of weir construction on water quality related to algal blooms in the Nakdong River. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	13
66	Fate and transport of radioactive gypsum stack water entering the Floridan aquifer due to a sinkhole collapse. <i>Scientific Reports</i> , 2018, 8, 11439.	3.3	11
67	Reply to comment by Jozsef Szilagyi on "Assessing interannual variability of evapotranspiration at the catchment scale using satellite-based evapotranspiration data sets". <i>Water Resources Research</i> , 2012, 48, .	4.2	10
68	Modeling anthropogenic boron in groundwater flow and discharge at Volusia Blue Spring (Florida). <i>Journal of Hydrologic Engineering</i> , 2011, 16, 107-114.	2.1	10
69	Suspended sediment projections in Apalachicola Bay in response to altered river flow and sediment loads under climate change and sea level rise. <i>Earth's Future</i> , 2016, 4, 428-439.	6.3	9
70	Climatic Controls on Landscape Dissection and Network Structure in the Absence of Vegetation. <i>Geophysical Research Letters</i> , 2019, 46, 3216-3224.	4.0	9
71	Verification of a New Spatial Distribution Function of Soil Water Storage Capacity Using Conceptual and SWAT Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, .	1.9	9
72	Climate and Landscape Controls of Regional Patterns of Flow Duration Curves Across the Continental United States: Statistical Approach. <i>Water Resources Research</i> , 2020, 56, e2020WR028041.	4.2	8

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73	Diagnosis toward predicting mean annual runoff in ungauged basins. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 945-956.	4.9	8
74	Hydraulic and nutrient removal performance of vegetated filter strips with engineered infiltration media for treatment of roadway runoff. <i>Journal of Environmental Management</i> , 2021, 300, 113747.	7.8	6
75	Hydrological Basis of Different Budyko Equations: The Spatial Variability of Available Water for Evaporation. <i>Water Resources Research</i> , 2022, 58, .	4.2	6
76	Interbasin and Intrabasin Competitions Control Drainage Network Density. <i>Geophysical Research Letters</i> , 2019, 46, 661-669.	4.0	5
77	Evaluating Nitrate Management in the Volusia Blue Springshed. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, .	1.4	4
78	A simple method for partitioning total solar radiation into diffuse/direct components in the United States. <i>International Journal of Green Energy</i> , 2018, 15, 497-506.	3.8	4
79	Paleoprecipitation Reconstruction in the Indus and Ganges Basins by Inverse Modeling of Tree-Ring-Based PDSI. <i>Journal of Hydrometeorology</i> , 2015, 16, 1372-1386.	1.9	3
80	Hydro-geomorphic response of Everglades to changing climate and anthropogenic activities. <i>Journal of Hydrology</i> , 2016, 543, 861-872.	5.4	3
81	Quantifying changes of effective springshed area and net recharge through recession analysis of spring flow. <i>Hydrological Processes</i> , 2016, 30, 5053-5062.	2.6	3
82	Catchments' hedging strategy on evapotranspiration for climatic variability. <i>Water Resources Research</i> , 2016, 52, 9036-9045.	4.2	3
83	Controls of the Topological Connectivity on the Structural and Functional Complexity of River Networks. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087737.	4.0	3
84	GIS Development for Environmental Hazard Management Based on Gridding Management. <i>Journal of Environmental Informatics</i> , 2011, 17, 83-90.	6.0	3
85	Contaminant transport from stormwater management areas to a freshwater karst spring in Florida: Results of near-surface geophysical investigations and tracer experiments. <i>Journal of Hydrology: Regional Studies</i> , 2022, 40, 101055.	2.4	3
86	Assessing the Impact of Subsurface Storage Contributing Area on the Watershed Scale Storage-Discharge Function Derived from Baseflow Recession at the Spoon River in Illinois. , 2012, , .		2
87	Time Compression Approximation Relationship for Infiltration in the Presence of a Shallow Water Table: Evaluating the Role of Péclet Number. <i>Water Resources Research</i> , 2018, 54, 9384-9397.	4.2	2
88	Evaluating the performance of BAM-based blanket filter on nitrate reduction in a karst spring. <i>Journal of Hydrology</i> , 2020, 591, 125491.	5.4	2
89	Can we infer the age of karst conduit from the profile of potentiometric surface?. <i>Journal of Hydrology</i> , 2020, 584, 124679.	5.4	2
90	Estimate Irrigation Water Use by Data Assimilation. , 2006, , 1.		1

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91	Estimating Groundwater Pumping and Return Flow Based on Hydrologic Recession Analysis. , 2009, , .		1
92	Effect of Herbicides on Evapotranspiration of Willow Marshes in the Upper St. Johns River Basin, Florida. Journal of Hydrologic Engineering - ASCE, 2018, 23, 05018018.	1.9	1
93	Climatic Control on Spatial Distribution of Water Storage at the Catchment Scale: A Framework for Unifying Saturation Excess Runoff Models. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	1