Xing Yuan

List of Publications by Year in descending order

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106	4,428	117453	123241
papers	citations	34 h-index	61 g-index

143	143	143	3661
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Drought Monitoring and Forecasting System for Sub-Sahara African Water Resources and Food Security. Bulletin of the American Meteorological Society, 2014, 95, 861-882.	1.7	371
2	Anthropogenic shift towards higher risk of flash drought over China. Nature Communications, 2019, 10, 4661.	5.8	236
3	Increasing flash droughts over China during the recent global warming hiatus. Scientific Reports, 2016, 6, 30571.	1.6	179
4	A first look at Climate Forecast System version 2 (CFSv2) for hydrological seasonal prediction. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	152
5	Microwave remote sensing of shortâ€term droughts during crop growing seasons. Geophysical Research Letters, 2015, 42, 4394-4401.	1.5	142
6	Multimodel seasonal forecasting of global drought onset. Geophysical Research Letters, 2013, 40, 4900-4905.	1.5	130
7	Regional Climateâ€“Weather Research and Forecasting Model. Bulletin of the American Meteorological Society, 2012, 93, 1363-1387.	1.7	129
8	CFSv2-Based Seasonal Hydroclimatic Forecasts over the Conterminous United States. Journal of Climate, 2013, 26, 4828-4847.	1.2	113
9	A review on climateâ€modelâ€based seasonal hydrologic forecasting: physical understanding and system development. Wiley Interdisciplinary Reviews: Water, 2015, 2, 523-536.	2.8	106
10	An Overview of Drought Monitoring and Prediction Systems at Regional and Global Scales. Bulletin of the American Meteorological Society, 2017, 98, 1879-1896.	1.7	96
11	Anthropogenic Intensification of Southern African Flash Droughts as Exemplified by the 2015/16 Season. Bulletin of the American Meteorological Society, 2018, 99, S86-S90.	1.7	94
12	Understanding and seasonal forecasting of hydrological drought in the Anthropocene. Hydrology and Earth System Sciences, 2017, 21, 5477-5492.	1.9	92
13	Seasonal Forecasting of Global Hydrologic Extremes: System Development and Evaluation over GEWEX Basins. Bulletin of the American Meteorological Society, 2015, 96, 1895-1912.	1.7	85
14	The key drivers for the changes in global water scarcity: Water withdrawal versus water availability. Journal of Hydrology, 2021, 601, 126658.	2.3	73
15	A probabilistic framework for assessing drought recovery. Geophysical Research Letters, 2013, 40, 3637-3642.	1.5	71
16	Probabilistic Seasonal Forecasting of African Drought by Dynamical Models. Journal of Hydrometeorology, 2013, 14, 1706-1720.	0.7	71
17	Two Types of Flash Drought and Their Connections with Seasonal Drought. Advances in Atmospheric Sciences, 2018, 35, 1478-1490.	1.9	70
18	Downscaling precipitation or biasâ€correcting streamflow? Some implications for coupled general circulation model (CGCM)â€based ensemble seasonal hydrologic forecast. Water Resources Research, 2012, 48, .	1.7	64

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19	Impact of vegetation dynamics on hydrological processes in a semi-arid basin by using a land surface-hydrology coupled model. Journal of Hydrology, 2017, 551, 116-131.	2.3	63
20	CFSv2-based sub-seasonal precipitation and temperature forecast skill over the contiguous United States. Hydrology and Earth System Sciences, 2017, 21, 1477-1490.	1.9	63
21	WRF ensemble downscaling seasonal forecasts of China winter precipitation during 1982â€“2008. Climate Dynamics, 2012, 39, 2041-2058.	1.7	60
22	Water budget closure based on GRACE measurements and reconstructed evapotranspiration using GLDAS and water use data for two large densely-populated mid-latitude basins. Journal of Hydrology, 2017, 547, 585-599.	2.3	59
23	The Influence of Atlantic Tropical Cyclones on Drought over the Eastern United States (1980â€“2007). Journal of Climate, 2013, 26, 3067-3086.	1.2	58
24	Effects of water table dynamics on regional climate: A case study over east Asian monsoon area. Journal of Geophysical Research, 2008, 113, .	3.3	57
25	Unprecedented Europe Heat in Juneâ€“July 2019: Risk in the Historical and Future Context. Geophysical Research Letters, 2020, 47, e2020GL087809.	1.5	56
26	Rapid reduction in ecosystem productivity caused by flash droughts based on decade-long FLUXNET observations. Hydrology and Earth System Sciences, 2020, 24, 5579-5593.	1.9	55
27	Seasonal drought predictability and forecast skill over China. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8264-8275.	1.2	53
28	An experimental seasonal hydrological forecasting system over the Yellow River basin â€“ PartÂ1: Understanding the role of initial hydrological conditions. Hydrology and Earth System Sciences, 2016, 20, 2437-2451.	1.9	49
29	Hydrologic post-processing of MOPEX streamflow simulations. Journal of Hydrology, 2014, 508, 147-156.	2.3	47
30	Do Lateral Flows Matter for the Hyperresolution Land Surface Modeling?. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,077.	1.2	45
31	Evaluation of a Conjunctive Surfaceâ€“Subsurface Process Model (CSSP) over the Contiguous United States at Regionalâ€“Local Scales. Journal of Hydrometeorology, 2011, 12, 579-599.	0.7	43
32	Highâ€Resolution Land Surface Modeling of Hydrological Changes Over the Sanjiangyuan Region in the Eastern Tibetan Plateau: 1. Model Development and Evaluation. Journal of Advances in Modeling Earth Systems, 2018, 10, 2806-2828.	1.3	43
33	Does a Strong El NiÃ±o Imply a Higher Predictability of Extreme Drought?. Scientific Reports, 2017, 7, 40741.	1.6	42
34	Challenges in predicting and simulating summer rainfall in the eastern China. Climate Dynamics, 2019, 52, 2217-2233.	1.7	39
35	Global assessment of future sectoral water scarcity under adaptive inner-basin water allocation measures. Science of the Total Environment, 2021, 783, 146973.	3.9	38
36	Integrating weather and climate prediction: Toward seamless hydrologic forecasting. Geophysical Research Letters, 2014, 41, 5891-5896.	1.5	37

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37	Ensemble streamflow forecasting over a cascade reservoir catchment with integrated hydrometeorological modeling and machine learning. Hydrology and Earth System Sciences, 2022, 26, 265-278.	1.9	37
38	An experimental seasonal hydrological forecasting system over the Yellow River basin â€“ PartÂ2: The added value from climate forecast models. Hydrology and Earth System Sciences, 2016, 20, 2453-2466.	1.9	36
39	Anthropogenic Speeding Up of South China Flash Droughts as Exemplified by the 2019 Summerâ€Autumn Transition Season. Geophysical Research Letters, 2021, 48, e2020GL091901.	1.5	36
40	Remote sensing of the impact of flash drought events on terrestrial carbon dynamics over China. Carbon Balance and Management, 2020, 15, 20.	1.4	34
41	The interactions between hydrological drought evolution and precipitation-streamflow relationship. Journal of Hydrology, 2021, 597, 126210.	2.3	33
42	Improving cold season precipitation prediction by the nested CWRF-CFS system. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	32
43	Effect of Teleconnected Landâ€“Atmosphere Coupling on Northeast China Persistent Drought in Springâ€“Summer of 2017. Journal of Climate, 2019, 32, 7403-7420.	1.2	32
44	Highâ€Resolution Land Surface Modeling of Hydrological Changes Over the Sanjiangyuan Region in the Eastern Tibetan Plateau: 2. Impact of Climate and Land Cover Change. Journal of Advances in Modeling Earth Systems, 2018, 10, 2829-2843.	1.3	31
45	CMIP6 projects less frequent seasonal soil moisture droughts over China in response to different warming levels. Environmental Research Letters, 2021, 16, 044053.	2.2	31
46	Impact of climate and population changes on the increasing exposure to summertime compound hot extremes. Science of the Total Environment, 2021, 772, 145004.	3.9	31
47	Did a skillful prediction of sea surface temperatures help or hinder forecasting of the 2012 Midwestern US drought?. Environmental Research Letters, 2014, 9, 034005.	2.2	30
48	Measuring and modeling the impact of a severe drought on terrestrial ecosystem CO₂ and water fluxes in a subtropical forest. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2576-2587.	1.3	30
49	A hydrological perspective on drought risk-assessment in the Yellow River Basin under future anthropogenic activities. Journal of Environmental Management, 2021, 289, 112429.	3.8	30
50	On the clustering of climate models in ensemble seasonal forecasting. Geophysical Research Letters, 2012, 39, .	1.5	28
51	Hydroclimatic variability and predictability: a survey of recent research. Hydrology and Earth System Sciences, 2017, 21, 3777-3798.	1.9	28
52	Attribution of 2019 Extreme Springâ€“Early Summer Hot Drought over Yunnan in Southwestern China. Bulletin of the American Meteorological Society, 2021, 102, S91-S96.	1.7	28
53	Attribution of the Persistent Springâ€“Summer Hot and Dry Extremes over Northeast China in 2017. Bulletin of the American Meteorological Society, 2019, 100, S85-S89.	1.7	26
54	More Persistent Summer Compound Hot Extremes Caused by Global Urbanization. Geophysical Research Letters, 2021, 48, e2021GL093721.	1.5	26

#	ARTICLE	IF	CITATIONS
55	Effects of meteorological forcings and land surface model on soil moisture simulation over China. Journal of Hydrology, 2021, 603, 126978.	2.3	26
56	Incorporating Reanalysis-Based Short-Term Forecasts from a Regional Climate Model in an Irrigation Scheduling Optimization Problem. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 699-713.	1.3	25
57	Reconciling the Attribution of Changes in Streamflow Extremes From a Hydroclimate Perspective. Water Resources Research, 2018, 54, 3886-3895.	1.7	25
58	Accelerated hydrological cycle over the Sanjiangyuan region induces more streamflow extremes at different global warming levels. Hydrology and Earth System Sciences, 2020, 24, 5439-5451.	1.9	25
59	Streamflow droughts aggravated by human activities despite management. Environmental Research Letters, 2022, 17, 044059.	2.2	24
60	Attribution of hydrologic forecast uncertainty within scalable forecast windows. Hydrology and Earth System Sciences, 2014, 18, 775-786.	1.9	23
61	More severe hydrological drought events emerge at different warming levels over the Wudinghe watershed in northern China. Hydrology and Earth System Sciences, 2019, 23, 621-635.	1.9	23
62	Intensified Impacts of Central Pacific ENSO on the Reversal of December and January Surface Air Temperature Anomaly over China since 1997. Journal of Climate, 2021, 34, 1601-1618.	1.2	23
63	Hydrological monitoring and seasonal forecasting: Progress and perspectives. Journal of Chinese Geography, 2016, 26, 904-920.	1.5	22
64	Do Climate Change and El NiÃ±o Increase Likelihood of Yangtze River Extreme Rainfall?. Bulletin of the American Meteorological Society, 2018, 99, S113-S117.	1.7	22
65	Multiscale Landâ€“Atmosphere Coupling and Its Application in Assessing Subseasonal Forecasts over East Asia. Journal of Hydrometeorology, 2018, 19, 745-760.	0.7	22
66	Dissolved organic carbon response to hydrological drought characteristics: Based on long-term measurements of headwater streams. Water Research, 2022, 215, 118252.	5.3	22
67	A Framework for Diagnosing Seasonal Prediction through Canonical Event Analysis. Monthly Weather Review, 2015, 143, 2404-2418.	0.5	20
68	Spatiotemporal prediction of shallow water table depths in continental China. Water Resources Research, 2008, 44, .	1.7	19
69	Critical Role of Soil Moisture Memory in Predicting the 2012 Central United States Flash Drought. Frontiers in Earth Science, 2021, 9, .	0.8	18
70	Extending seasonal predictability of Yangtze River summer floods. Hydrology and Earth System Sciences, 2018, 22, 4201-4211.	1.9	17
71	Anthropogenic Contributions to the 2018 Extreme Flooding over the Upper Yellow River Basin in China. Bulletin of the American Meteorological Society, 2020, 101, S89-S94.	1.7	16
72	Reservoirs regulate the relationship between hydrological drought recovery water and drought characteristics. Journal of Hydrology, 2021, 603, 127127.	2.3	16

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73	Upwind Droughts Enhance Half of the Heatwaves Over North China. Geophysical Research Letters, 2022, 49, .	1.5	16
74	Joint effects of three oceans on the 2020 super meiâ€yu. Atmospheric and Oceanic Science Letters, 2022, 15, 100127.	0.5	15
75	Prediction of water table under streamâ€“aquifer interactions over an arid region. Hydrological Processes, 2010, 24, 160-169.	1.1	14
76	Mechanisms and Early Warning of Drought Disasters: Experimental Drought Meteorology Research over China. Bulletin of the American Meteorological Society, 2019, 100, 673-687.	1.7	14
77	Causes and Predictability of the 2021 Spring Southwestern China Severe Drought. Advances in Atmospheric Sciences, 2022, 39, 1766-1776.	1.9	14
78	A First Look at Decadal Hydrological Predictability by Land Surface Ensemble Simulations. Geophysical Research Letters, 2018, 45, 2362-2369.	1.5	13
79	Benchmark decadal forecast skill for terrestrial water storage estimated by an elasticity framework. Nature Communications, 2019, 10, 1237.	5.8	13
80	Quantifying the uncertainty of internal variability in future projections of seasonal soil moisture droughts over China. Science of the Total Environment, 2022, 824, 153817.	3.9	13
81	Prediction of water table depths under soil water-groundwater interaction and stream water conveyance. Science China Earth Sciences, 2011, 54, 420-430.	2.3	12
82	Influence of Internal Variability and Global Warming on Multidecadal Changes in Regional Drought Severity over the Continental United States. Journal of Hydrometeorology, 2019, 20, 411-429.	0.7	12
83	Atmospheric Radiative Processes Accelerate Ground Surface Warming over the Southeastern Tibetan Plateau during 1998â€“2013. Journal of Climate, 2020, 33, 1881-1895.	1.2	12
84	Global warming induces significant changes in the fraction of stored precipitation in the surface soil. Global and Planetary Change, 2021, 205, 103616.	1.6	12
85	Climate warming outweighs vegetation greening in intensifying flash droughts over China. Environmental Research Letters, 2022, 17, 054041.	2.2	12
86	Superensemble seasonal forecasting of soil moisture by NMME. International Journal of Climatology, 2018, 38, 2565-2574.	1.5	11
87	An agent-based framework for high-resolution modeling of domestic water use. Resources, Conservation and Recycling, 2021, 169, 105520.	5.3	11
88	Crucial role of natural processes in detecting human influence on evapotranspiration by multisource data analysis. Journal of Hydrology, 2020, 580, 124350.	2.3	10
89	Underestimation of the Warming Trend over the Tibetan Plateau during 1998â€“2013 by Global Land Data Assimilation Systems and Atmospheric Reanalyses. Journal of Meteorological Research, 2020, 34, 88-100.	0.9	9
90	A Moderate Mitigation Can Significantly Delay the Emergence of Compound Hot Extremes. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	9

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91	Characteristics and circulation patterns for wet and dry compound day-night heat waves in mid-eastern China. Global and Planetary Change, 2022, 213, 103839.	1.6	9
92	Evaluation of Model-Based Soil Moisture Drought Monitoring over Three Key Regions in China. Journal of Applied Meteorology and Climatology, 2018, 57, 1989-2004.	0.6	8
93	Evaluation of summer drought ensemble prediction over the Yellow River basin. Atmospheric and Oceanic Science Letters, 2018, 11, 314-321.	0.5	7
94	Highâ€Resolution Land Surface Modeling of the Effect of Longâ€Term Urbanization on Hydrothermal Changes Over Beijing Metropolitan Area. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034787.	1.2	7
95	Incorporating groundwater dynamics and surface/subsurface runoff mechanisms in regional climate modeling over river basins in China. Advances in Atmospheric Sciences, 2013, 30, 983-996.	1.9	6
96	Recent Intensified Influence of the Winter North Pacific Sea Surface Temperature on the Mei-Yu Withdrawal Date. Journal of Climate, 2021, 34, 3869-3887.	1.2	6
97	Global Freshwater Storage Capability across Time Scales in the GRACE Satellite Era. Advances in Atmospheric Sciences, 2021, 38, 905-917.	1.9	5
98	Unraveling human influence on evapotranspiration over East Asian monsoon river basins by using GRACE/GRACE-FO data and land surface models. Journal of Hydrology, 2022, 605, 127349.	2.3	5
99	Sensitivity of regionalized transfer-function noise models to the input and parameter transfer method / SensibilitÃ© de modÃ¨les de type fonction de transfert bruit rÃ©gionalisÃ©e (FTBR) aux donnÃ©es d'entrÃ©e et aux mÃ©thodes de transfert de paramÃ¨tres. Hydrological Sciences Journal, 2009, 54, 639-651.	1.2	4
100	Skillful Decadal Prediction of Droughts Over Largeâ€Scale River Basins Across the Globe. Geophysical Research Letters, 2020, 47, e2020GL089738.	1.5	4
101	Modeling the Influence of Upstream Land-atmosphere Coupling on the 2017 Persistent Drought over Northeast China. Journal of Climate, 2021, , 1-62.	1.2	4
102	The anthropogenic acceleration and intensification of flash drought over the southeastern coastal region of China will continue into the future. Atmospheric and Oceanic Science Letters, 2022, 15, 100262.	0.5	2
103	Seasonal Drought Forecasting on the Example of the USA. , 2015, , 1-9.		1
104	Impact of the false intensification and recovery on the hydrological drought internal propagation. Weather and Climate Extremes, 2022, 36, 100430.	1.6	1
105	Soil Moisture Estimation Using Active and Passive Remote Sensing Techniques. , 2016, , 37-56.		0
106	Seasonal Drought Forecasting on the Example of the USA. , 2019, , 1279-1287.		0