

# Weiguang Wang

## List of Publications by Year in descending order

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94  
papers

3,830  
citations

101496

36  
h-index

133188

59  
g-index

94  
all docs

94  
docs citations

94  
times ranked

4915  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative assessment of the impact of climate variability and human activities on runoff changes: a case study in four catchments of the Haihe River basin, China. <i>Hydrological Processes</i> , 2013, 27, 1158-1174.	1.1	265
2	Enhancing the Hydrophilicity and Cell Attachment of 3D Printed PCL/Graphene Scaffolds for Bone Tissue Engineering. <i>Materials</i> , 2016, 9, 992.	1.3	230
3	Disulfiram-mediated inhibition of NF- $\kappa$ B activity enhances cytotoxicity of 5-fluorouracil in human colorectal cancer cell lines. <i>International Journal of Cancer</i> , 2003, 104, 504-511.	2.3	206
4	Disulfiram/copper complex inhibiting NF $\kappa$ B activity and potentiating cytotoxic effect of gemcitabine on colon and breast cancer cell lines. <i>Cancer Letters</i> , 2010, 290, 104-113.	3.2	112
5	Reference evapotranspiration change and the causes across the Yellow River Basin during 1957â€“2008 and their spatial and seasonal differences. <i>Water Resources Research</i> , 2012, 48, .	1.7	110
6	Liposome encapsulated Disulfiram inhibits NF $\kappa$ B pathway and targets breast cancer stem cells<i>in vitro</i>and<i>in vivo</i>. <i>Oncotarget</i> , 2014, 5, 7471-7485.	0.8	103
7	Mechanistic and Predictive Profiling of 5-Fluorouracil Resistance in Human Cancer Cells. <i>Cancer Research</i> , 2004, 64, 8167-8176.	0.4	102
8	Changes in daily temperature and precipitation extremes in the Yellow River Basin, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 401-421.	1.9	93
9	Changes in reference evapotranspiration across the Tibetan Plateau: Observations and future projections based on statistical downscaling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4049-4068.	1.2	88
10	Responses of rice yield, irrigation water requirement and water use efficiency to climate change in China: Historical simulation and future projections. <i>Agricultural Water Management</i> , 2014, 146, 249-261.	2.4	85
11	Vegetation response to precipitation anomalies under different climatic and biogeographical conditions in China. <i>Scientific Reports</i> , 2020, 10, 830.	1.6	84
12	Disulfiram targeting lymphoid malignant cell lines via ROS-JNK activation as well as Nrf2 and NF- $\kappa$ B pathway inhibition. <i>Journal of Translational Medicine</i> , 2014, 12, 163.	1.8	81
13	Characterizing the changing behaviours of precipitation concentration in the Yangtze River Basin, China. <i>Hydrological Processes</i> , 2013, 27, 3375-3393.	1.1	79
14	The analytical derivation of multiple elasticities of runoff to climate change and catchment characteristics alteration. <i>Journal of Hydrology</i> , 2016, 541, 1042-1056.	2.3	79
15	Adaptation of paddy rice in China to climate change: The effects of shifting sowing date on yield and irrigation water requirement. <i>Agricultural Water Management</i> , 2020, 228, 105890.	2.4	79
16	Modeling spatial and temporal variability of the impact of climate change on rice irrigation water requirements in the middle and lower reaches of the Yangtze River, China. <i>Agricultural Water Management</i> , 2017, 193, 89-101.	2.4	68
17	Spatial and Temporal Characteristics of Reference Evapotranspiration Trends in the Haihe River Basin, China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011, 16, 239-252.	0.8	67
18	Statistical downscaling of extreme daily precipitation, evaporation, and temperature and construction of future scenarios. <i>Hydrological Processes</i> , 2012, 26, 3510-3523.	1.1	65

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19	Satellite retrieval of actual evapotranspiration in the Tibetan Plateau: Components partitioning, multidecadal trends and dominated factors identifying. <i>Journal of Hydrology</i> , 2018, 559, 471-485.	2.3	63
20	Bayesian multi-model projection of irrigation requirement and water use efficiency in three typical rice plantation region of China based on CMIP5. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 89-105.	1.9	62
21	Spatial and temporal characteristics of changes in precipitation during 1957â€”2007 in the Haihe River basin, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011, 25, 881-895.	1.9	56
22	Changes of climate extremes in a typical arid zone: Observations and multimodel ensemble projections. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
23	Changes of reference evapotranspiration in the Haihe River Basin: Present observations and future projection from climatic variables through multi-model ensemble. <i>Global and Planetary Change</i> , 2014, 115, 1-15.	1.6	53
24	Assessment of PCL/carbon material scaffolds for bone regeneration. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 52-60.	1.5	53
25	Statistical Uncertainty Estimation Using Random Forests and Its Application to Drought Forecast. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-12.	0.6	49
26	How large are uncertainties in future projection of reference evapotranspiration through different approaches?. <i>Journal of Hydrology</i> , 2015, 524, 696-700.	2.3	49
27	First evaluation of the climatological calibration algorithm in the real-time TMPA precipitation estimates over two basins at high and low latitudes. <i>Water Resources Research</i> , 2013, 49, 2461-2472.	1.7	47
28	Periodic fluctuation of reference evapotranspiration during the past five decades: Does Evaporation Paradox really exist in China?. <i>Scientific Reports</i> , 2016, 6, 39503.	1.6	47
29	Endothelial nitric oxide synthase activity is inhibited by the plasma membrane calcium ATPase in human endothelial cells. <i>Cardiovascular Research</i> , 2010, 87, 440-448.	1.8	46
30	Triptolide simultaneously induces reactive oxygen species, inhibits NF- $\kappa$ B activity and sensitizes 5-fluorouracil in colorectal cancer cell lines. <i>Cancer Letters</i> , 2010, 291, 200-208.	3.2	44
31	Statistical downscaling of extremes of precipitation and temperature and construction of their future scenarios in an elevated and cold zone. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012, 26, 405-418.	1.9	43
32	Disulfiram/copper complex activated JNK/c-jun pathway and sensitized cytotoxicity of doxorubicin in doxorubicin resistant leukemia HL60 cells. <i>Blood Cells, Molecules, and Diseases</i> , 2011, 47, 264-269.	0.6	42
33	Medium Range Daily Reference Evapotranspiration Forecasting by Using ANN and Public Weather Forecasts. <i>Water Resources Management</i> , 2015, 29, 3863-3876.	1.9	42
34	Plasma Membrane Calcium ATPase Isoform 4 Inhibits Vascular Endothelial Growth Factorâ€”Mediated Angiogenesis Through Interaction With Calcineurin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2310-2320.	1.1	41
35	Mechanisms of acquired chemoresistance to 5-fluorouracil and tomudex: thymidylate synthase dependent and independent networks. <i>Cancer Chemotherapy and Pharmacology</i> , 2007, 59, 839-845.	1.1	39
36	Disruption of the interaction between PMCA2 and calcineurin triggers apoptosis and enhances paclitaxel-induced cytotoxicity in breast cancer cells. <i>Carcinogenesis</i> , 2012, 33, 2362-2368.	1.3	39

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37	Hydrological projections of future climate change over the source region of Yellow River and Yangtze River in the Tibetan Plateau: A comprehensive assessment by coupling RegCM4 and VIC model. <i>Hydrological Processes</i> , 2018, 32, 2096-2117.	1.1	38
38	The response of reference evapotranspiration to climate change in Xinjiang, China: Historical changes, driving forces, and future projections. <i>International Journal of Climatology</i> , 2020, 40, 235-254.	1.5	38
39	Assessment of climate change impact on the water footprint in rice production: Historical simulation and future projections at two representative rice cropping sites of China. <i>Science of the Total Environment</i> , 2020, 709, 136190.	3.9	38
40	Morphological, mechanical and biological assessment of PCL/pristine graphene scaffolds for bone regeneration. <i>International Journal of Bioprinting</i> , 2016, 2, .	1.7	38
41	Triptolide, a Chinese herbal extract, enhances drug sensitivity of resistant myeloid leukemia cell lines through downregulation of HIF-1 $\alpha$ and Nrf2. <i>Pharmacogenomics</i> , 2013, 14, 1305-1317.	0.6	35
42	Can China achieve food security through the development of irrigation?. <i>Regional Environmental Change</i> , 2018, 18, 465-475.	1.4	33
43	3D-Printed Poly( $\epsilon$ -caprolactone)/Graphene Scaffolds Activated with P1-Latex Protein for Bone Regeneration. <i>3D Printing and Additive Manufacturing</i> , 2018, 5, 127-137.	1.4	33
44	Development of disulfiram-loaded vaginal rings for the localised treatment of cervical cancer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 945-953.	2.0	32
45	The interaction between endogenous calcineurin and the plasma membrane calcium-dependent ATPase is isoform specific in breast cancer cells. <i>FEBS Letters</i> , 2007, 581, 4115-4119.	1.3	31
46	Spatial and temporal variations in hydro-climatic variables and runoff in response to climate change in the Luanhe River basin, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 1117-1133.	1.9	31
47	APRIL is a novel clinical chemo-resistance biomarker in colorectal adenocarcinoma identified by gene expression profiling. <i>BMC Cancer</i> , 2009, 9, 434.	1.1	27
48	INTEGRATED IRRIGATION AND DRAINAGE PRACTICES TO ENHANCE WATER PRODUCTIVITY AND REDUCE POLLUTION IN A RICE PRODUCTION SYSTEM. <i>Irrigation and Drainage</i> , 2012, 61, 285-293.	0.8	27
49	Spatial and temporal distribution characteristics of reference evapotranspiration trends in Karst area: a case study in Guizhou Province, China. <i>Meteorology and Atmospheric Physics</i> , 2016, 128, 677-688.	0.9	25
50	On the lower bound of Budyko curve: The influence of precipitation seasonality. <i>Journal of Hydrology</i> , 2019, 570, 292-303.	2.3	25
51	Exploring the water-energy-food nexus from a perspective of agricultural production efficiency using a three-stage data envelopment analysis modelling evaluation method: a case study of the middle and lower reaches of the Yangtze River, China. <i>Water Policy</i> , 2019, 21, 49-72.	0.7	24
52	Hot melt extruded and injection moulded disulfiram-loaded PLGA millirods for the treatment of glioblastoma multiforme via stereotactic injection. <i>International Journal of Pharmaceutics</i> , 2015, 494, 73-82.	2.6	23
53	Projecting the potential evapotranspiration by coupling different formulations and input data reliabilities: The possible uncertainty source for climate change impacts on hydrological regime. <i>Journal of Hydrology</i> , 2017, 555, 298-313.	2.3	22
54	Disulfiram-loaded immediate and extended release vaginal tablets for the localised treatment of cervical cancer. <i>Journal of Pharmacy and Pharmacology</i> , 2015, 67, 189-198.	1.2	21

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55	Heat Wave Variations Across China Tied to Global SST Modes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031612.	1.2	21
56	Proper methods and its calibration for estimating reference evapotranspiration using limited climatic data in Southwestern China. <i>Archives of Agronomy and Soil Science</i> , 2015, 61, 415-426.	1.3	20
57	Influence of mature El Niño Southern Oscillation phase on seasonal precipitation and streamflow in the Yangtze River Basin, China. <i>International Journal of Climatology</i> , 2020, 40, 3885-3905.	1.5	20
58	Hindcasting the effects of climate change on rice yields, irrigation requirements, and water productivity. <i>Paddy and Water Environment</i> , 2015, 13, 81-89.	1.0	19
59	Modeling rice evapotranspiration under water-saving irrigation condition: Improved canopy-resistance-based. <i>Journal of Hydrology</i> , 2020, 590, 125435.	2.3	19
60	Towards quantification of the national water footprint in rice production of China: A first assessment from the perspectives of single-double rice. <i>Science of the Total Environment</i> , 2020, 739, 140032.	3.9	18
61	Multiple sources of uncertainties in satellite retrieval of terrestrial actual evapotranspiration. <i>Journal of Hydrology</i> , 2021, 601, 126642.	2.3	18
62	Carbon Nanomaterials for Electro-Active Structures: A Review. <i>Polymers</i> , 2020, 12, 2946.	2.0	17
63	In vivo investigation of 3D printed polycaprolactone/graphene electro-active bone scaffolds. <i>Bioprinting</i> , 2021, 24, e00164.	2.9	17
64	shRNA-Mediated BAALC knockdown affects proliferation and apoptosis in human acute myeloid leukemia cells. <i>Hematology</i> , 2012, 17, 35-40.	0.7	16
65	Heterogeneous response of global precipitation concentration to global warming. <i>International Journal of Climatology</i> , 2021, 41, E2347.	1.5	16
66	Responses of phosphorus use efficiency to human interference and climate change in the middle and lower reaches of the Yangtze River: Historical simulation and future projections. <i>Journal of Cleaner Production</i> , 2018, 201, 403-415.	4.6	15
67	Evaporative fraction and its application in estimating daily evapotranspiration of water-saving irrigated rice field. <i>Journal of Hydrology</i> , 2020, 584, 124317.	2.3	15
68	How could a drug used to treat alcoholism also be effective against glioblastoma?. <i>Expert Review of Anticancer Therapy</i> , 2013, 13, 239-241.	1.1	14
69	Investigations of Graphene and Nitrogen-Doped Graphene Enhanced Polycaprolactone 3D Scaffolds for Bone Tissue Engineering. <i>Nanomaterials</i> , 2021, 11, 929.	1.9	13
70	Multimodel ensemble projections of future climate extreme changes in the Haihe River Basin, China. <i>Theoretical and Applied Climatology</i> , 2014, 118, 405-417.	1.3	12
71	<i>Zanthoxylum usambarense</i> (Engl.) Kokwaro (Rutaceae) Extracts Inhibit the Growth of the Breast Cancer Cell Lines MDA-MB-231 and MCF-7, But Not the Brain Tumour Cell Line U251 <i>In Vitro</i> . <i>Phytotherapy Research</i> , 2013, 27, 787-790.	2.8	11
72	A concise review on the role of selenium for bone cancer applications. <i>Bone</i> , 2021, 149, 115974.	1.4	11

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73	Simultaneous detection of MDR1 and WT1 gene expression to predict the prognosis of adult acute lymphoblastic leukemia. <i>Hematology</i> , 2010, 15, 74-80.	0.7	10
74	Development of Disulfiram-Loaded Poly(Lactic-co-Glycolic Acid) Wafers for the Localised Treatment of Glioblastoma Multiforme: A Comparison of Manufacturing Techniques. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 1076-1086.	1.6	10
75	Quantifying the relative contribution of climate variability and human activities impacts on baseflow dynamics in the Tarim River Basin, Northwest China. <i>Journal of Hydrology: Regional Studies</i> , 2021, 36, 100853.	1.0	10
76	Simulating the Climatic Effects of Irrigation Over China by Using the WRF-Noah Model System With Mosaic Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034428.	1.2	10
77	Hybrid Additive Manufacturing System for Zonal Plasma-Treated Scaffolds. <i>3D Printing and Additive Manufacturing</i> , 2018, 5, 205-213.	1.4	9
78	Evaluating the Drought-Monitoring Utility of GPM and TRMM Precipitation Products over Mainland China. <i>Remote Sensing</i> , 2021, 13, 4153.	1.8	9
79	Characterizing the Seasonal Changing Patterns of Hydrological Variables in the East River, Southern China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	0.8	8
80	Runoff Predicting and Variation Analysis in Upper Ganjiang Basin under Projected Climate Changes. <i>Sustainability</i> , 2019, 11, 5885.	1.6	8
81	Highly swelling pH-responsive microgels for dual mode near infra-red fluorescence reporting and imaging. <i>Nanoscale Advances</i> , 2020, 2, 4261-4271.	2.2	8
82	The climatic effects of irrigation over the middle and lower reaches of the Yangtze River, China. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108550.	1.9	8
83	Prediction of daily reference evapotranspiration by a multiple regression method based on weather forecast data. <i>Archives of Agronomy and Soil Science</i> , 2013, 59, 1487-1501.	1.3	6
84	Using a Kalman Filter to Assimilate TRMM-Based Real-Time Satellite Precipitation Estimates over Jinghe Basin, China. <i>Remote Sensing</i> , 2016, 8, 899.	1.8	6
85	Estimation of Evapotranspiration and Its Components across China Based on a Modified Priestley-Taylor Algorithm Using Monthly Multi-Layer Soil Moisture Data. <i>Remote Sensing</i> , 2021, 13, 3118.	1.8	6
86	Engineering the biological performance of hierarchical nanostructured poly( $\mu$ -carpolactone) scaffolds for bone tissue engineering. <i>CIRP Annals - Manufacturing Technology</i> , 2020, 69, 217-220.	1.7	6
87	Soil degassing during watering: An overlooked soil N <sub>2</sub> O emission process. <i>Environmental Pollution</i> , 2018, 242, 257-263.	3.7	5
88	A two-stage partitioning monthly model and assessment of its performance on runoff modeling. <i>Journal of Hydrology</i> , 2021, 592, 125829.	2.3	5
89	Closure to "Estimating the Effects of Climatic Variability and Human Activities on Streamflow in the Hutuo River Basin, China" by Shizhang Peng, Wanxin Liu, Weiguang Wang, Quanxi Shao, Xiyun Jiao, Zhongbo Yu, Wanqiu Xing, Junzeng Xu, Zengxin Zhang, and Yufeng Luo. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 836-839.	0.8	4
90	Estimating Net Irrigation Requirements of Winter Wheat across Central-Eastern China under Present and Future Climate Scenarios. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2018, 144, 05018005.	0.6	4

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91	Quantitative Research on the Influence of Urbanization of Land Types on Evapotranspiration in Arid Areas. The National Academy of Sciences, India, 2021, 44, 419-421.	0.8	1
92	Statistical downscaling of reference evapotranspiration in Haihe River Basin: applicability assessment and application to future projection. Hydrological Sciences Journal, 2016, , 1-13.	1.2	0
93	Hydrological Modeling in Water Cycle Processes. Water (Switzerland), 2021, 13, 1882.	1.2	0
94	New approaches for addressing challenges in large-scale surface and ground water hydrology. , 2020, , .		0