Wei Pei

List of Publications by Year
in descending order

108	1,956	236612	329751
papers	citations	25 h-index	37 g-index

109	109	109	1711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An optimal modelling approach for managing agricultural water-energy-food nexus under uncertainty. Science of the Total Environment, 2019, 651, 1416-1434.	3.9	185
2	Characteristics of Propagation From Meteorological Drought to Hydrological Drought in the Pearl River Basin. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033959.	1.2	78
3	Investigating the Propagation From Meteorological to Hydrological Drought by Introducing the Nonlinear Dependence With Directed Information Transfer Index. Water Resources Research, 2021, 57, e2021WR030028.	1.7	66
4	A preliminary compilation and evaluation of a comprehensive emission inventory for polychlorinated biphenyls in China. Science of the Total Environment, 2015, 533, 247-255.	3.9	54
5	Improving the Resolution of GRACE Data for Spatio-Temporal Groundwater Storage Assessment. Remote Sensing, 2021, 13, 3513.	1.8	53
6	Spatiotemporal characteristics of droughts and floods in northeastern China and their impacts on agriculture. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2913-2931.	1.9	51
7	Effects of biochar application during different periods on soil structures and water retention in seasonally frozen soil areas. Science of the Total Environment, 2019, 694, 133732.	3.9	46
8	Assessing agricultural drought vulnerability in the Sanjiang Plain based on an improved projection pursuit model. Natural Hazards, 2016, 82, 683-701.	1.6	44
9	Spatialâ€“temporal variation, possible source and ecological risk of PCBs in sediments from Songhua River, China: Effects of PCB elimination policy and reverse management framework. Marine Pollution Bulletin, 2016, 106, 109-118.	2.3	37
10	Agricultural Multi-Water Source Allocation Model Based on Interval Two-Stage Stochastic Robust Programming under Uncertainty. Water Resources Management, 2018, 32, 1261-1274.	1.9	37
11	Projection Pursuit Evaluation Model of Regional Surface Water Environment Based on Improved Chicken Swarm Optimization Algorithm. Water Resources Management, 2018, 32, 1325-1342.	1.9	36
12	Spatiotemporal analysis of the agricultural drought risk in Heilongjiang Province, China. Theoretical and Applied Climatology, 2018, 133, 151-164.	1.3	36
13	Spatial Variability of Soil Moisture in Relation to Land Use Types and Topographic Features on Hillslopes in the Black Soil (Mollisols) Area of Northeast China. Sustainability, 2020, 12, 3552.	1.6	35
14	Sediment-Water Exchange, Spatial Variations, and Ecological Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Songhua River, China. Water (Switzerland), 2016, 8, 334.	1.2	34
15	Assessing the responses of vegetation to meteorological drought and its influencing factors with partial wavelet coherence analysis. Journal of Environmental Management, 2022, 311, 114879.	3.8	34
16	Heavy Metals in Sediment from the Urban and Rural Rivers in Harbin City, Northeast China. International Journal of Environmental Research and Public Health, 2019, 16, 4313.	1.2	33
17	Optimization of agricultural waterâ€“foodâ€“energy nexus in a random environment: an integrated modelling approach. Stochastic Environmental Research and Risk Assessment, 2021, 35, 3-19.	1.9	33
18	Characteristics of greenhouse gas emissions from farmland soils based on a structural equation model: Regulation mechanism of biochar. Environmental Research, 2022, 206, 112303.	3.7	31

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19	Improved decolorization and mineralization of azo dye in an integrated system of anaerobic bioelectrochemical modules and aerobic moving bed biofilm reactor. Bioresource Technology, 2022, 353, 127147.	4.8	31
20	Projected Changes of Future Extreme Drought Events under Numerous Drought Indices in the Heilongjiang Province of China. Water Resources Management, 2017, 31, 3921-3937.	1.9	30
21	Application of Particle Swarm Optimization and Extreme Learning Machine Forecasting Models for Regional Groundwater Depth Using Nonlinear Prediction Models as Preprocessor. Journal of Hydrologic Engineering - ASCE, 2018, 23, .	0.8	30
22	Effects of pyrolysis temperature and aging treatment on the adsorption of Cd2+ and Zn2+ by coffee grounds biochar. Chemosphere, 2022, 296, 134051.	4.2	30
23	Concentrations, Possible Sources and Health Risk of Heavy Metals in Multi-Media Environment of the Songhua River, China. International Journal of Environmental Research and Public Health, 2020, 17, 1766.	1.2	29
24	Detecting the persistence of drying trends under changing climate conditions using four meteorological drought indices. Meteorological Applications, 2018, 25, 184-194.	0.9	28
25	Biochar application for the improvement of water-soil environments and carbon emissions under freeze-thaw conditions: An in-situ field trial. Science of the Total Environment, 2020, 723, 138007.	3.9	28
26	Recent Climate Trends and Drought Behavioral Assessment Based on Precipitation and Temperature Data Series in the Songhua River Basin of China. Water Resources Management, 2016, 30, 4839-4859.	1.9	26
27	Algal fouling and extracellular organic matter removal in powdered activated carbon-submerged hollow fiber ultrafiltration membrane systems. Science of the Total Environment, 2019, 671, 351-361.	3.9	26
28	Precipitation Complexity Measurement Using Multifractal Spectra Empirical Mode Decomposition Detrended Fluctuation Analysis. Water Resources Management, 2016, 30, 505-522.	1.9	23
29	Conjugation of artificial humic acids with inorganic soil matter to restore land for improved conservation of water and nutrients. Land Degradation and Development, 2020, 31, 884-893.	1.8	23
30	Spatiotemporal characteristics of the soil freeze-thaw state and its variation under different land use types - A case study in Northeast China. Agricultural and Forest Meteorology, 2022, 312, 108737.	1.9	23
31	Adaptive Allocation Modeling for a Complex System of Regional Water and Land Resources Based on Information Entropy and its Application. Water Resources Management, 2015, 29, 4977-4993.	1.9	22
32	Effects of soil water and heat relationship under various snow cover during freezing-thawing periods in Songnen Plain, China. Scientific Reports, 2018, 8, 1325.	1.6	22
33	Research on the adsorption mechanism of Cu and Zn by biochar under freeze-thaw conditions. Science of the Total Environment, 2021, 774, 145194.	3.9	22
34	The Application of a Water Rights Trading Model Based on two-Stage Interval-Parameter Stochastic Programming. Water Resources Management, 2016, 30, 2227-2243.	1.9	21
35	Evaluation of the land carrying capacity of major grain-producing areas and the identification of risk factors. Natural Hazards, 2017, 86, 263-280.	1.6	20
36	Effects of straw mulching on soil evaporation during the soil thawing period in a cold region in northeastern China. Journal of Earth System Science, 2018, 127, 1.	0.6	20

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37	Remobilization and bioavailability of polycyclic aromatic hydrocarbons from estuarine sediments under the effects of Nereis diversicolor bioturbation. Environmental Pollution, 2018, 242, 931-937.	3.7	18
38	Valuation and Pricing of Agricultural Irrigation Water Based on Macro and Micro Scales. Water (Switzerland), 2018, 10, 1044.	1.2	18
39	Spatialâ€“temporal variations, possible sources and soilâ€“air exchange of polychlorinated biphenyls in urban environments in China. RSC Advances, 2017, 7, 14797-14804.	1.7	16
40	Two-Stage Multi-Water Sources Allocation Model in Regional Water Resources Management under Uncertainty. Water Resources Management, 2017, 31, 3607-3625.	1.9	16
41	Trophic transfer of cyclic methyl siloxanes in the marine food web in the Bohai Sea, China. Ecotoxicology and Environmental Safety, 2019, 178, 86-93.	2.9	16
42	Short-term influence of biochar on soil temperature, liquid moisture content and soybean growth in a seasonal frozen soil area. Journal of Environmental Management, 2020, 266, 110609.	3.8	16
43	Stream flow variability and drought severity in the Songhua River Basin, Northeast China. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1225-1242.	1.9	15
44	Effects of landâ€use change and climate variability on streamflow in the Woken River basin in Northeast China. River Research and Applications, 2019, 35, 121-132.	0.7	15
45	Spatial variability and possible cause analysis of regional precipitation complexity based on optimized sample entropy. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3384-3398.	1.0	15
46	Modeling the air-soil exchange, secondary emissions and residues in soil of polychlorinated biphenyls in China. Scientific Reports, 2017, 7, 221.	1.6	14
47	Assessment of precipitation variability and uncertainty of stream flow in the Hindu Kush Himalayan and Karakoram River basins of Pakistan. Meteorology and Atmospheric Physics, 2019, 131, 127-136.	0.9	14
48	Measurement and analysis of regional flood disaster resilience based on a support vector regression model refined by the selfish herd optimizer with elite opposition-based learning. Journal of Environmental Management, 2021, 300, 113764.	3.8	14
49	Precipitation variability assessment of northeast China: Songhua River basin. Journal of Earth System Science, 2016, 125, 957-968.	0.6	13
50	Influence of accidental overcharging on the performance and degradation mechanisms of LiCoO2/mesocarbon microbead battery. Journal of Solid State Electrochemistry, 2018, 22, 3743-3750.	1.2	13
51	Effects of biochar and straw application on the soil structure and water-holding and gas transport capacities in seasonally frozen soil areas. Journal of Environmental Management, 2022, 301, 113943.	3.8	13
52	Biochar impacts on the soil environment of soybean root systems. Science of the Total Environment, 2022, 821, 153421.	3.9	13
53	Regional food security risk assessment under the coordinated development of water resources. Natural Hazards, 2015, 78, 603-619.	1.6	12
54	Comparison of UV/H2O2, UV/PMS, and UV/PDS in Destruction of Different Reactivity Compounds and Formation of Bromate and Chlorate. Frontiers in Chemistry, 2020, 8, 581198.	1.8	12

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55	Heavy metal contamination and ecological risk in sediment from typical suburban rivers. River Research and Applications, 2021, 37, 1080-1088.	0.7	12
56	Effects of Biochar on Sediment Transport and Rill Erosion after Two Consecutive Years of Seasonal Freezing and Thawing. Sustainability, 2021, 13, 6984.	1.6	12
57	Two-Stage Interval-Parameter Stochastic Programming Model Based on Adaptive Water Resource Management. Water Resources Management, 2016, 30, 2097-2109.	1.9	11
58	Analysis of Irrigation Water Use Efficiency Based on the Chaos Features of a Rainfall Time Series. Water Resources Management, 2017, 31, 1961-1973.	1.9	11
59	A drought index for Rainfed agriculture: The Standardized Precipitation Crop Evapotranspiration Index (SPCEI). Hydrological Processes, 2019, 33, 803-815.	1.1	11
60	Rice Irrigation Schedule Optimization Based on the AquaCrop Model: Study of the Longtouqiao Irrigation District. Water (Switzerland), 2019, 11, 1799.	1.2	11
61	Risk assessment of the city water resources system based on Pansystems Observation-Control Model of Periphery. Natural Hazards, 2014, 71, 1899-1912.	1.6	10
62	Levels, congener profile and inventory of polychlorinated biphenyls in sediment from the Songhua River in the vicinity of cement plant, China: a case study. Environmental Science and Pollution Research, 2016, 23, 15952-15962.	2.7	10
63	Multi-scale research of time and space differences about ecological footprint and ecological carrying capacity of the water resources. Applied Water Science, 2018, 8, 1.	2.8	10
64	Effect of Biochar on Soil and Water Loss on Sloping Farmland in the Black Soil Region of Northeast China during the Spring Thawing Period. Sustainability, 2021, 13, 1460.	1.6	10
65	Complexity measurement of precipitation series in urban areas based on particle swarm optimized multiscale entropy. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	9
66	Calculation of Comprehensive Ecological Flow with Weighted Multiple Methods Considering Hydrological Alteration. Water (Switzerland), 2018, 10, 1212.	1.2	9
67	An approach for runoff and sediment nexus analysis under multi-flow conditions in a hyper-concentrated sediment river, Southwest China. Journal of Contaminant Hydrology, 2020, 235, 103702.	1.6	9
68	Application of an improved multifractal detrended fluctuation analysis approach for estimation of the complexity of daily precipitation. International Journal of Climatology, 2021, 41, 4653-4671.	1.5	9
69	Risk analysis and influencing factors of drought and flood disasters in China. Natural Hazards, 2022, 110, 1599-1620.	1.6	9
70	HHM- and RFRM-Based Water Resource System Risk Identification. Water Resources Management, 2018, 32, 4045-4061.	1.9	8
71	Study on the Optimization of Dry Land Irrigation Schedule in the Downstream Songhua River Basin Based on the SWAT Model. Water (Switzerland), 2019, 11, 1147.	1.2	8
72	Concentrations and uptake pathways of polychlorinated biphenyls from soil to grass. Ecotoxicology and Environmental Safety, 2019, 182, 109428.	2.9	8

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73	Regulation of Cu and Zn migration in soil by biochar during snowmelt. Environmental Research, 2020, 186, 109566.	3.7	8
74	Variability of Soil Water Heat and Energy Transfer Under Different Cover Conditions in a Seasonally Frozen Soil Area. Sustainability, 2020, 12, 1782.	1.6	8
75	Multifractal Detrended Fluctuation Analysis of Regional Precipitation Sequences Based on the CEEMDAN-WPT. Pure and Applied Geophysics, 2018, 175, 3069-3084.	0.8	7
76	Analysis of Irrigation Canal System Characteristics in Heilongjiang Province and the Influence on Irrigation Water Use Efficiency. Water (Switzerland), 2018, 10, 1101.	1.2	7
77	A Simulation-Based Linear Fractional Programming Model for Adaptable Water Allocation Planning in the Main Stream of The Songhua River Basin, China. Water (Switzerland), 2018, 10, 627.	1.2	7
78	Assessment of characteristics and distinguished hydrological periods of a river regime. Environmental Earth Sciences, 2018, 77, 1.	1.3	7
79	Simulating the Evolution of the Land and Water Resource System under Different Climates in Heilongjiang Province, China. Water (Switzerland), 2018, 10, 868.	1.2	7
80	Spatiotemporal evolution of the maximum freezing depth of seasonally frozen ground and permafrost continuity in historical and future periods in Heilongjiang Province, China. Atmospheric Research, 2022, 274, 106195.	1.8	7
81	Complexity measurement of regional groundwater resources system using improved Lempel-Ziv complexity algorithm. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	6
82	Soil quality assessment of vegetation restoration after a large forest fire in Daxingâ€™anling, northeast China. Canadian Journal of Soil Science, 2020, , 1-13.	0.5	6
83	EMD-RBFNN Coupling Prediction Model of Complex Regional Groundwater Depth Series: A Case Study of the Jiansanjiang Administration of Heilongjiang Land Reclamation in China. Water (Switzerland), 2016, 8, 340.	1.2	5
84	Complexity measure of regional seasonal precipitation series based on wavelet entropy. Hydrological Sciences Journal, 2017, 62, 2531-2540.	1.2	5
85	Inventory Theory-Based Stochastic Optimization for Reservoir Water Allocation. Water Resources Management, 2019, 33, 3873-3898.	1.9	5
86	A stochastic modeling approach for analyzing water resources systems. Journal of Contaminant Hydrology, 2021, 242, 103865.	1.6	5
87	Complexity measure of regional groundwater resources system based on wavelet entropy: a case study of Jiansanjiang Administration of Heilongjiang land reclamation in China. Environmental Earth Sciences, 2015, 73, 1033-1043.	1.3	4
88	An Evaluation of the Resilience of the Regional Agricultural Water and Soil Resource System in Heilongjiang Province, China. Agricultural Research, 2018, 7, 311-320.	0.9	4
89	Analysis of characteristic snow parameters and associated factors in a cold region in northeast China. Water Science and Technology: Water Supply, 2019, 19, 511-518.	1.0	4
90	The effect of biochar on the water-soil environmental system in freezing-thawing farmland soil: The perspective of complexity. Science of the Total Environment, 2022, 807, 150746.	3.9	4

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91	Characteristics of snowmelt transport in farmland soil in cold regions: The regulatory mechanism of biochar. Hydrological Processes, 2022, 36, .	1.1	4
92	Performance of gravity-driven membrane systems for algal water treatment: Effects of temperature and membrane properties. Science of the Total Environment, 2022, 838, 155963.	3.9	4
93	Study of the water saving potential of an irrigation area based on a remote sensing evapotranspiration model. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	3
94	Levels, spatial variations, and possible sources of polycyclic aromatic hydrocarbons in sediment from Songhua River, China. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	3
95	Modeling primary and secondary fractionation effects and atmospheric transport of polychlorinated biphenyls through single-source emissions. Environmental Geochemistry and Health, 2019, 41, 1939-1951.	1.8	3
96	How soil texture, channel shape and crossâ€sectional area affect moisture dynamics and water loss in irrigation channels. Hydrological Processes, 2021, 35, e14155.	1.1	3
97	Construction Enterprise Quality Management System Effectiveness of Impact Analysis. , 2009, , .		2
98	Effect of the Number of Leaves in Submerged Aquatic Plants on Stream Flow Dynamics. Water (Switzerland), 2019, 11, 1448.	1.2	2
99	Effects of land use and climate variability on the main stream of the Songhua River Basin, Northeast China. Hydrological Sciences Journal, 2020, 65, 1752-1765.	1.2	2
100	Optimal allocation model of the water resources in Harbin under representative concentration pathway scenarios. Water Science and Technology: Water Supply, 2020, 20, 2903-2914.	1.0	2
101	Study on the Agricultural Crop Drought Index Based on Weights of Growth Stages. Hydrological Processes, 0, , .	1.1	2
102	Fractal dimension estimation of groundwater depth series of well irrigation area in Sanjiang Plain based on continuous wavelet transform. , 2010, , .		1
103	Spatial variability of maize leaf area and relationship between it and yield. Agronomy Journal, 0, , .	0.9	1
104	The Complexity Measure of Groundwater Depth Series in Sanjiang Plain Based on Approximate Entropy. , 2009, , .		0
105	Research on a Reference Electronic Business Model for Construction Enterprises. , 2009, , .		0
106	Research on groundwater level prediction of Naoli river basin based on Elman wavelet neural networks. , 2011, , .		0
107	Analysis of the Appropriate Development Scale of Regional Paddy Field Under the Restriction of Water Resources. Agricultural Research, 2016, 5, 324-333.	0.9	0
108	Study on the Change in Freezing Depth in Heilongjiang Province and Its Response to Winter Half-Year Temperature. Journal of Applied Meteorology and Climatology, 2022, , .	0.6	0