

# Wei Pei

## List of Publications by Citations

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99  
papers

971  
citations

17  
h-index

25  
g-index

109  
ext. papers

1,416  
ext. citations

4.4  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
99	An optimal modelling approach for managing agricultural water-energy-food nexus under uncertainty. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 1416-1434	10.2	105
98	A preliminary compilation and evaluation of a comprehensive emission inventory for polychlorinated biphenyls in China. <i>Science of the Total Environment</i> , <b>2015</b> , 533, 247-55	10.2	44
97	Assessing agricultural drought vulnerability in the Sanjiang Plain based on an improved projection pursuit model. <i>Natural Hazards</i> , <b>2016</b> , 82, 683-701	3	34
96	Spatial-temporal variation, possible source and ecological risk of PCBs in sediments from Songhua River, China: Effects of PCB elimination policy and reverse management framework. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 106, 109-18	6.7	30
95	Spatiotemporal characteristics of droughts and floods in northeastern China and their impacts on agriculture. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2018</b> , 32, 2913-2931	3.5	27
94	Agricultural Multi-Water Source Allocation Model Based on Interval Two-Stage Stochastic Robust Programming under Uncertainty. <i>Water Resources Management</i> , <b>2018</b> , 32, 1261-1274	3.7	27
93	Spatiotemporal analysis of the agricultural drought risk in Heilongjiang Province, China. <i>Theoretical and Applied Climatology</i> , <b>2018</b> , 133, 151-164	3	26
92	Recent Climate Trends and Drought Behavioral Assessment Based on Precipitation and Temperature Data Series in the Songhua River Basin of China. <i>Water Resources Management</i> , <b>2016</b> , 30, 4839-4859	3.7	25
91	Sediment-Water Exchange, Spatial Variations, and Ecological Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Songhua River, China. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 334	3	24
90	Projected Changes of Future Extreme Drought Events under Numerous Drought Indices in the Heilongjiang Province of China. <i>Water Resources Management</i> , <b>2017</b> , 31, 3921-3937	3.7	23
89	Projection Pursuit Evaluation Model of Regional Surface Water Environment Based on Improved Chicken Swarm Optimization Algorithm. <i>Water Resources Management</i> , <b>2018</b> , 32, 1325-1342	3.7	22
88	Application of Particle Swarm Optimization and Extreme Learning Machine Forecasting Models for Regional Groundwater Depth Using Nonlinear Prediction Models as Preprocessor. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2018</b> , 23, 04018052	1.8	22
87	Detecting the persistence of drying trends under changing climate conditions using four meteorological drought indices. <i>Meteorological Applications</i> , <b>2018</b> , 25, 184-194	2.1	21
86	Effects of biochar application during different periods on soil structures and water retention in seasonally frozen soil areas. <i>Science of the Total Environment</i> , <b>2019</b> , 694, 133732	10.2	20
85	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. <i>Sustainability</i> , <b>2020</b> , 12, 3552	3.6	18
84	Optimization of agricultural water-food-energy nexus in a random environment: an integrated modelling approach. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2021</b> , 35, 3-19	3.5	18
83	Precipitation Complexity Measurement Using Multifractal Spectra Empirical Mode Decomposition Detrended Fluctuation Analysis. <i>Water Resources Management</i> , <b>2016</b> , 30, 505-522	3.7	17

82	Adaptive Allocation Modeling for a Complex System of Regional Water and Land Resources Based on Information Entropy and its Application. <i>Water Resources Management</i> , <b>2015</b> , 29, 4977-4993	3.7	16
81	The Application of a Water Rights Trading Model Based on two-Stage Interval-Parameter Stochastic Programming. <i>Water Resources Management</i> , <b>2016</b> , 30, 2227-2243	3.7	16
80	Heavy Metals in Sediment from the Urban and Rural Rivers in Harbin City, Northeast China. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	16
79	Algal fouling and extracellular organic matter removal in powdered activated carbon-submerged hollow fiber ultrafiltration membrane systems. <i>Science of the Total Environment</i> , <b>2019</b> , 671, 351-361	10.2	15
78	Biochar application for the improvement of water-soil environments and carbon emissions under freeze-thaw conditions: An in-situ field trial. <i>Science of the Total Environment</i> , <b>2020</b> , 723, 138007	10.2	14
77	Evaluation of the land carrying capacity of major grain-producing areas and the identification of risk factors. <i>Natural Hazards</i> , <b>2017</b> , 86, 263-280	3	13
76	Assessment of precipitation variability and uncertainty of stream flow in the Hindu Kush Himalayan and Karakoram River basins of Pakistan. <i>Meteorology and Atmospheric Physics</i> , <b>2019</b> , 131, 127-136	2	13
75	Two-Stage Multi-Water Sources Allocation Model in Regional Water Resources Management under Uncertainty. <i>Water Resources Management</i> , <b>2017</b> , 31, 3607-3625	3.7	12
74	Concentrations, Possible Sources and Health Risk of Heavy Metals in Multi-Media Environment of the Songhua River, China. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	12
73	Effects of soil water and heat relationship under various snow cover during freezing-thawing periods in Songnen Plain, China. <i>Scientific Reports</i> , <b>2018</b> , 8, 1325	4.9	12
72	Effects of straw mulching on soil evaporation during the soil thawing period in a cold region in northeastern China. <i>Journal of Earth System Science</i> , <b>2018</b> , 127, 1	1.8	12
71	Trophic transfer of cyclic methyl siloxanes in the marine food web in the Bohai Sea, China. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 178, 86-93	7	11
70	Stream flow variability and drought severity in the Songhua River Basin, Northeast China. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2018</b> , 32, 1225-1242	3.5	11
69	Regional food security risk assessment under the coordinated development of water resources. <i>Natural Hazards</i> , <b>2015</b> , 78, 603-619	3	11
68	Spatial-temporal variations, possible sources and soil-air exchange of polychlorinated biphenyls in urban environments in China. <i>RSC Advances</i> , <b>2017</b> , 7, 14797-14804	3.7	10
67	Modeling the air-soil exchange, secondary emissions and residues in soil of polychlorinated biphenyls in China. <i>Scientific Reports</i> , <b>2017</b> , 7, 221	4.9	10
66	Short-term influence of biochar on soil temperature, liquid moisture content and soybean growth in a seasonal frozen soil area. <i>Journal of Environmental Management</i> , <b>2020</b> , 266, 110609	7.9	10
65	Effects of land-use change and climate variability on streamflow in the Woken River basin in Northeast China. <i>River Research and Applications</i> , <b>2019</b> , 35, 121-132	2.3	10

64	Characteristics of Propagation From Meteorological Drought to Hydrological Drought in the Pearl River Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033959	4.4	10
63	Investigating the Propagation From Meteorological to Hydrological Drought by Introducing the Nonlinear Dependence With Directed Information Transfer Index. <i>Water Resources Research</i> , <b>2021</b> , 57, e2021WR030028	5.4	10
62	Valuation and Pricing of Agricultural Irrigation Water Based on Macro and Micro Scales. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1044	3	9
61	Conjugation of artificial humic acids with inorganic soil matter to restore land for improved conservation of water and nutrients. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 884-893	4.4	9
60	Improving the Resolution of GRACE Data for Spatio-Temporal Groundwater Storage Assessment. <i>Remote Sensing</i> , <b>2021</b> , 13, 3513	5	9
59	Complexity measurement of precipitation series in urban areas based on particle swarm optimized multiscale entropy. <i>Arabian Journal of Geosciences</i> , <b>2018</b> , 11, 1	1.8	8
58	Precipitation variability assessment of northeast China: Songhua River basin. <i>Journal of Earth System Science</i> , <b>2016</b> , 125, 957-968	1.8	8
57	Remobilization and bioavailability of polycyclic aromatic hydrocarbons from estuarine sediments under the effects of <i>Nereis diversicolor</i> bioturbation. <i>Environmental Pollution</i> , <b>2018</b> , 242, 931-937	9.3	8
56	Risk assessment of the city water resources system based on Pansystems Observation-Control Model of Periphery. <i>Natural Hazards</i> , <b>2014</b> , 71, 1899-1912	3	8
55	Analysis of Irrigation Water Use Efficiency Based on the Chaos Features of a Rainfall Time Series. <i>Water Resources Management</i> , <b>2017</b> , 31, 1961-1973	3.7	7
54	Spatial variability and possible cause analysis of regional precipitation complexity based on optimized sample entropy. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2020</b> , 146, 3384-3398	6.4	6
53	Levels, congener profile and inventory of polychlorinated biphenyls in sediment from the Songhua River in the vicinity of cement plant, China: a case study. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 15952-62	5.1	6
52	Simulating the Evolution of the Land and Water Resource System under Different Climates in Heilongjiang Province, China. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 868	3	6
51	A Simulation-Based Linear Fractional Programming Model for Adaptable Water Allocation Planning in the Main Stream of The Songhua River Basin, China. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 627	3	6
50	Rice Irrigation Schedule Optimization Based on the AquaCrop Model: Study of the Longtougiao Irrigation District. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1799	3	5
49	Soil quality assessment of vegetation restoration after a large forest fire in Daxing'anling, northeast China. <i>Canadian Journal of Soil Science</i> , <b>2020</b> , 1-13	1.4	5
48	Two-Stage Interval-Parameter Stochastic Programming Model Based on Adaptive Water Resource Management. <i>Water Resources Management</i> , <b>2016</b> , 30, 2097-2109	3.7	5
47	HMM- and RFRM-Based Water Resource System Risk Identification. <i>Water Resources Management</i> , <b>2018</b> , 32, 4045-4061	3.7	5

46	Influence of accidental overcharging on the performance and degradation mechanisms of LiCoO <sub>2</sub> /mesocarbon microbead battery. <i>Journal of Solid State Electrochemistry</i> , <b>2018</b> , 22, 3743-3750	2.6	5
45	Study on the Optimization of Dry Land Irrigation Schedule in the Downstream Songhua River Basin Based on the SWAT Model. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1147	3	5
44	Concentrations and uptake pathways of polychlorinated biphenyls from soil to grass. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 182, 109428	7	5
43	Comparison of UV/HO, UV/PMS, and UV/PDS in Destruction of Different Reactivity Compounds and Formation of Bromate and Chlorate. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 581198	5	5
42	Heavy metal contamination and ecological risk in sediment from typical suburban rivers. <i>River Research and Applications</i> , <b>2020</b> ,	2.3	5
41	Analysis of Irrigation Canal System Characteristics in Heilongjiang Province and the Influence on Irrigation Water Use Efficiency. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1101	3	5
40	Complexity measure of regional seasonal precipitation series based on wavelet entropy. <i>Hydrological Sciences Journal</i> , <b>2017</b> , 62, 2531-2540	3.5	4
39	Complexity measure of regional groundwater resources system based on wavelet entropy: a case study of Jiansanjiang Administration of Heilongjiang land reclamation in China. <i>Environmental Earth Sciences</i> , <b>2015</b> , 73, 1033-1043	2.9	4
38	Regulation of Cu and Zn migration in soil by biochar during snowmelt. <i>Environmental Research</i> , <b>2020</b> , 186, 109566	7.9	4
37	Research on the adsorption mechanism of Cu and Zn by biochar under freeze-thaw conditions. <i>Science of the Total Environment</i> , <b>2021</b> , 774, 145194	10.2	4
36	Complexity measurement of regional groundwater resources system using improved Lempel-Ziv complexity algorithm. <i>Arabian Journal of Geosciences</i> , <b>2016</b> , 9, 1	1.8	4
35	Effect of Biochar on Soil and Water Loss on Sloping Farmland in the Black Soil Region of Northeast China during the Spring Thawing Period. <i>Sustainability</i> , <b>2021</b> , 13, 1460	3.6	4
34	Assessment of characteristics and distinguished hydrological periods of a river regime. <i>Environmental Earth Sciences</i> , <b>2018</b> , 77, 1	2.9	4
33	Calculation of Comprehensive Ecological Flow with Weighted Multiple Methods Considering Hydrological Alteration. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1212	3	4
32	Effects of pyrolysis temperature and aging treatment on the adsorption of Cd and Zn by coffee grounds biochar.. <i>Chemosphere</i> , <b>2022</b> , 134051	8.4	4
31	Multifractal Detrended Fluctuation Analysis of Regional Precipitation Sequences Based on the CEEMDAN-WPT. <i>Pure and Applied Geophysics</i> , <b>2018</b> , 175, 3069-3084	2.2	3
30	Multi-scale research of time and space differences about ecological footprint and ecological carrying capacity of the water resources. <i>Applied Water Science</i> , <b>2018</b> , 8, 1	5	3
29	Levels, spatial variations, and possible sources of polycyclic aromatic hydrocarbons in sediment from Songhua River, China. <i>Arabian Journal of Geosciences</i> , <b>2018</b> , 11, 1	1.8	3

28	Analysis of characteristic snow parameters and associated factors in a cold region in northeast China. <i>Water Science and Technology: Water Supply</i> , <b>2019</b> , 19, 511-518	1.4	3
27	Spatiotemporal characteristics of the soil freeze-thaw state and its variation under different land use types - A case study in Northeast China. <i>Agricultural and Forest Meteorology</i> , <b>2022</b> , 312, 108737	5.8	3
26	Characteristics of greenhouse gas emissions from farmland soils based on a structural equation model: Regulation mechanism of biochar. <i>Environmental Research</i> , <b>2021</b> , 206, 112303	7.9	3
25	Application of an improved multifractal detrended fluctuation analysis approach for estimation of the complexity of daily precipitation. <i>International Journal of Climatology</i> , <b>2021</b> , 41, 4653	3.5	3
24	EMD-RBFNN Coupling Prediction Model of Complex Regional Groundwater Depth Series: A Case Study of the Jiansanjiang Administration of Heilongjiang Land Reclamation in China. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 340	3	3
23	A drought index for Rainfed agriculture: The Standardized Precipitation Crop Evapotranspiration Index (SPCEI). <i>Hydrological Processes</i> , <b>2018</b> , 33, 803	3.3	3
22	A stochastic modeling approach for analyzing water resources systems. <i>Journal of Contaminant Hydrology</i> , <b>2021</b> , 242, 103865	3.9	3
21	An approach for runoff and sediment nexus analysis under multi-flow conditions in a hyper-concentrated sediment river, Southwest China. <i>Journal of Contaminant Hydrology</i> , <b>2020</b> , 235, 103702	7.9	2
20	An Evaluation of the Resilience of the Regional Agricultural Water and Soil Resource System in Heilongjiang Province, China. <i>Agricultural Research</i> , <b>2018</b> , 7, 311-320	1.4	2
19	Effects of Biochar on Sediment Transport and Rill Erosion after Two Consecutive Years of Seasonal Freezing and Thawing. <i>Sustainability</i> , <b>2021</b> , 13, 6984	3.6	2
18	Modeling primary and secondary fractionation effects and atmospheric transport of polychlorinated biphenyls through single-source emissions. <i>Environmental Geochemistry and Health</i> , <b>2019</b> , 41, 1939-1951	4.7	2
17	Effects of land use and climate variability on the main stream of the Songhua River Basin, Northeast China. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 1752-1765	3.5	1
16	Study of the water saving potential of an irrigation area based on a remote sensing evapotranspiration model. <i>Arabian Journal of Geosciences</i> , <b>2018</b> , 11, 1	1.8	1
15	Inventory Theory-Based Stochastic Optimization for Reservoir Water Allocation. <i>Water Resources Management</i> , <b>2019</b> , 33, 3873-3898	3.7	1
14	Effects of biochar and straw application on the soil structure and water-holding and gas transport capacities in seasonally frozen soil areas. <i>Journal of Environmental Management</i> , <b>2022</b> , 301, 113943	7.9	1
13	The effect of biochar on the water-soil environmental system in freezing-thawing farmland soil: The perspective of complexity. <i>Science of the Total Environment</i> , <b>2022</b> , 807, 150746	10.2	1
12	How soil texture, channel shape and cross-sectional area affect moisture dynamics and water loss in irrigation channels. <i>Hydrological Processes</i> , <b>2021</b> , 35, e14155	3.3	1
11	Risk analysis and influencing factors of drought and flood disasters in China. <i>Natural Hazards</i> , <b>2011</b> , 5, 1	3	1

10	Assessing the responses of vegetation to meteorological drought and its influencing factors with partial wavelet coherence analysis.. <i>Journal of Environmental Management</i> , <b>2022</b> , 311, 114879	7.9	1
9	Improved decolorization and mineralization of azo dye in an integrated system of anaerobic bioelectrochemical modules and aerobic moving bed biofilm reactor.. <i>Bioresource Technology</i> , <b>2022</b> , 127147	11.7	1
8	Variability of Soil Water Heat and Energy Transfer Under Different Cover Conditions in a Seasonally Frozen Soil Area. <i>Sustainability</i> , <b>2020</b> , 12, 1782	3.6	0
7	Effect of the Number of Leaves in Submerged Aquatic Plants on Stream Flow Dynamics. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1448	3	0
6	Biochar impacts on the soil environment of soybean root systems.. <i>Science of the Total Environment</i> , <b>2022</b> , 821, 153421	10.2	0
5	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. <i>Journal of Environmental Management</i> , <b>2021</b> , 300, 113764	7.9	0
4	Spatiotemporal evolution of the maximum freezing depth of seasonally frozen ground and permafrost continuity in historical and future periods in Heilongjiang Province, China. <i>Atmospheric Research</i> , <b>2022</b> , 274, 106195	5.4	0
3	Optimal allocation model of the water resources in Harbin under representative concentration pathway scenarios. <i>Water Science and Technology: Water Supply</i> , <b>2020</b> , 20, 2903-2914	1.4	
2	Analysis of the Appropriate Development Scale of Regional Paddy Field Under the Restriction of Water Resources. <i>Agricultural Research</i> , <b>2016</b> , 5, 324-333	1.4	
1	Performance of gravity-driven membrane systems for algal water treatment: Effects of temperature and membrane properties.. <i>Science of the Total Environment</i> , <b>2022</b> , 155963	10.2	