Liu Dong

List of Publications by Year in Descending Order

74 papers	**792** citations	**17** h-index	**24** g-index
79 ext. papers	**1,073** ext. citations	**4.2** avg, IF	**4.54** L-index

#	Paper	IF	Citations
74	Biochar impacts on the soil environment of soybean root systems.. *Science of the Total Environment*, **2022**, 821, 153421	10.2	0
73	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	7.9	1
72	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	10.2	1
71	Improved decolorization and mineralization of azo dye in an integrated system of anaerobic bioelectrochemical modules and aerobic moving bed biofilm reactor.. *Bioresource Technology*, **2022**, 127147	11	1
70	Application of an improved multifractal detrended fluctuation analysis approach for estimation of the complexity of daily precipitation. *International Journal of Climatology*, **2021**, 41, 4653	3.5	3
69	Screening and identification of antagonistic bacteria from vermicompost against Fusarium oxysporum f. sp. cucumerinum. *Acta Agriculturae Scandinavica - Section B Soil and Plant Science*, **2021**, 71, 266-272	1.1	1
68	Indicator system optimization model for evaluating resilience of regional agricultural soil water resource composite system. *Water Science and Technology: Water Supply*, **2021**, 21, 3251-3266	1.4	1
67	How soil texture, channel shape and cross-sectional area affect moisture dynamics and water loss in irrigation channels. *Hydrological Processes*, **2021**, 35, e14155	3.3	1
66	Research on the adsorption mechanism of Cu and Zn by biochar under freeze-thaw conditions. *Science of the Total Environment*, **2021**, 774, 145194	10.2	4
65	Effects of Biochar on Sediment Transport and Rill Erosion after Two Consecutive Years of Seasonal Freezing and Thawing. *Sustainability*, **2021**, 13, 6984	3.6	2
64	Optimization of agricultural water food energy nexus in a random environment: an integrated modelling approach. *Stochastic Environmental Research and Risk Assessment*, **2021**, 35, 3-19	3.5	18
63	Novel method for measuring regional precipitation complexity characteristics based on multiscale permutation entropy combined with CMFO-PPTTE model. *Journal of Hydrology*, **2021**, 592, 125801	6	1
62	Spatial-temporal characteristics analysis of water resource system resilience in irrigation areas based on a support vector machine model optimized by the modified gray wolf algorithm. *Journal of Hydrology*, **2021**, 597, 125758	6	11
61	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	3.6	4
60	Analysis on water use strategies of natural poplar in Hunshandake Sandy Land, China. *Environmental Progress and Sustainable Energy*, **2021**, 40, e13579	2.5	1
59	Improving the Resolution of GRACE Data for Spatio-Temporal Groundwater Storage Assessment. *Remote Sensing*, **2021**, 13, 3513	5	9
58	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	7.9	0

57	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	3.5	1
56	Regulation of Cu and Zn migration in soil by biochar during snowmelt. *Environmental Research*, **2020**, 186, 109566	7.9	4
55	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	6.4	6
54	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	10.2	14
53	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	7.9	10
52	Heavy metal contamination and ecological risk in sediment from typical suburban rivers. *River Research and Applications*, **2020**,	2.3	5
51	Rice Irrigation Schedule Optimization Based on the AquaCrop Model: Study of the Longtouqiao Irrigation District. *Water (Switzerland)*, **2019**, 11, 1799	3	5
50	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	10.2	20
49	A resilience evaluation method for a combined regional agricultural water and soil resource system based on Weighted Mahalanobis distance and a Gray-TOPSIS model. *Journal of Cleaner Production*, **2019**, 229, 667-679	10.3	38
48	Trophic transfer of cyclic methyl siloxanes in the marine food web in the Bohai Sea, China. *Ecotoxicology and Environmental Safety*, **2019**, 178, 86-93	7	11
47	A Novel Method for Agricultural Drought Risk Assessment. *Water Resources Management*, **2019**, 33, 2033-2047	3.7	18
46	Identification and application of the most suitable entropy model for precipitation complexity measurement. *Atmospheric Research*, **2019**, 221, 88-97	5.4	29
45	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	1.4	3
44	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	3	5
43	Concentrations and uptake pathways of polychlorinated biphenyls from soil to grass. *Ecotoxicology and Environmental Safety*, **2019**, 182, 109428	7	5
42	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,	4.6	16
41	Identification of resilience characteristics of a regional agricultural water resources system based on index optimization and improved support vector machine. *Water Science and Technology: Water Supply*, **2019**, 19, 1899-1910	1.4	5
40	Effects of land-use change and climate variability on streamflow in the Woken River basin in Northeast China. *River Research and Applications*, **2019**, 35, 121-132	2.3	10

39	An optimal modelling approach for managing agricultural water-energy-food nexus under uncertainty. *Science of the Total Environment*, **2019**, 651, 1416-1434	10.2	105
38	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	2	13
37	Multifractal Detrended Fluctuation Analysis of Regional Precipitation Sequences Based on the CEEMDAN-WPT. *Pure and Applied Geophysics*, **2018**, 175, 3069-3084	2.2	3
36	Complexity measurement of precipitation series in urban areas based on particle swarm optimized multiscale entropy. *Arabian Journal of Geosciences*, **2018**, 11, 1	1.8	8
35	Study of the water saving potential of an irrigation area based on a remote sensing evapotranspiration model. *Arabian Journal of Geosciences*, **2018**, 11, 1	1.8	1
34	Projection Pursuit Evaluation Model of Regional Surface Water Environment Based on Improved Chicken Swarm Optimization Algorithm. *Water Resources Management*, **2018**, 32, 1325-1342	3.7	22
33	Agricultural Multi-Water Source Allocation Model Based on Interval Two-Stage Stochastic Robust Programming under Uncertainty. *Water Resources Management*, **2018**, 32, 1261-1274	3.7	27
32	Spatiotemporal analysis of the agricultural drought risk in Heilongjiang Province, China. *Theoretical and Applied Climatology*, **2018**, 133, 151-164	3	26
31	Detecting the persistence of drying trends under changing climate conditions using four meteorological drought indices. *Meteorological Applications*, **2018**, 25, 184-194	2.1	21
30	Stream flow variability and drought severity in the Songhua River Basin, Northeast China. *Stochastic Environmental Research and Risk Assessment*, **2018**, 32, 1225-1242	3.5	11
29	An Evaluation of the Resilience of the Regional Agricultural Water and Soil Resource System in Heilongjiang Province, China. *Agricultural Research*, **2018**, 7, 311-320	1.4	2
28	Levels, spatial variations, and possible sources of polycyclic aromatic hydrocarbons in sediment from Songhua River, China. *Arabian Journal of Geosciences*, **2018**, 11, 1	1.8	3
27	Analysis of Irrigation Canal System Characteristics in Heilongjiang Province and the Influence on Irrigation Water Use Efficiency. *Water (Switzerland)*, **2018**, 10, 1101	3	5
26	A drought index for Rainfed agriculture: The Standardized Precipitation Crop Evapotranspiration Index (SPCEI). *Hydrological Processes*, **2018**, 33, 803	3.3	3
25	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	3	6
24	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, 04018052	1.8	22
23	Assessment of characteristics and distinguished hydrological periods of a river regime. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	4
22	Evaluation of the land carrying capacity of major grain-producing areas and the identification of risk factors. *Natural Hazards*, **2017**, 86, 263-280	3	13

21	Spatial-Temporal variations, possible sources and soil-air exchange of polychlorinated biphenyls in urban environments in China. *RSC Advances*, **2017**, 7, 14797-14804	3.7	10
20	Two-Stage Multi-Water Sources Allocation Model in Regional Water Resources Management under Uncertainty. *Water Resources Management*, **2017**, 31, 3607-3625	3.7	12
19	Projected Changes of Future Extreme Drought Events under Numerous Drought Indices in the Heilongjiang Province of China. *Water Resources Management*, **2017**, 31, 3921-3937	3.7	23
18	Analysis of Irrigation Water Use Efficiency Based on the Chaos Features of a Rainfall Time Series. *Water Resources Management*, **2017**, 31, 1961-1973	3.7	7
17	Complexity measure of regional seasonal precipitation series based on wavelet entropy. *Hydrological Sciences Journal*, **2017**, 62, 2531-2540	3.5	4
16	Research on evaluating water resource resilience based on projection pursuit classification model. *Applied Water Science*, **2016**, 6, 97-105	5	8
15	Precipitation variability assessment of northeast China: Songhua River basin. *Journal of Earth System Science*, **2016**, 125, 957-968	1.8	8
14	Two-Stage Interval-Parameter Stochastic Programming Model Based on Adaptive Water Resource Management. *Water Resources Management*, **2016**, 30, 2097-2109	3.7	5
13	The Application of a Water Rights Trading Model Based on two-Stage Interval-Parameter Stochastic Programming. *Water Resources Management*, **2016**, 30, 2227-2243	3.7	16
12	Precipitation Complexity Measurement Using Multifractal Spectra Empirical Mode Decomposition Detrended Fluctuation Analysis. *Water Resources Management*, **2016**, 30, 505-522	3.7	17
11	Assessing agricultural drought vulnerability in the Sanjiang Plain based on an improved projection pursuit model. *Natural Hazards*, **2016**, 82, 683-701	3	34
10	Sediment-Water Exchange, Spatial Variations, and Ecological Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Songhua River, China. *Water (Switzerland)*, **2016**, 8, 334	3	24
9	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	3	3
8	Complexity measurement of regional groundwater resources system using improved Lempel-Ziv complexity algorithm. *Arabian Journal of Geosciences*, **2016**, 9, 1	1.8	4
7	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	3.7	25
6	Analysis of the Appropriate Development Scale of Regional Paddy Field Under the Restriction of Water Resources. *Agricultural Research*, **2016**, 5, 324-333	1.4	
5	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	2.9	4
4	The Effect Degree Analysis of Human Activities on Regional Groundwater Level Based on Variable Fuzzy Optimization Model. *International Journal of Agricultural and Environmental Information Systems*, **2015**, 6, 63-76	1.2	1

3	Complexity research of regional groundwater depth series based on multiscale entropy: a case study of Jiangsanjiang Branch Bureau in China. *Environmental Earth Sciences*, **2013**, 70, 353-361	2.9	4
2	Diagnostic Complexity of Regional Groundwater Resources System Based on time series fractal dimension and Artificial Fish Swarm Algorithm. *Water Resources Management*, **2013**, 27, 1897-1911	3.7	6
1	A Study on the Overwintering of Cucumber Downy Mildew Oospores in China. *Journal of Phytopathology*, **2012**, 160, 469-474	1.8	18