Jian Liu

List of Publications by Year in descending order

101 papers	2,630 citations	201575 27 h-index	223716 46 g-index
102 all docs	102 docs citations	102 times ranked	2693 citing authors

#	Article	IF	Citations
1	Invasive alien plants in China: role of clonality and geographical origin. Biological Invasions, 2006, 8, 1461-1470.	1.2	217
2	Effects of heavy metals on microbial communities in sediments and establishment of bioindicators based on microbial taxa and function for environmental monitoring and management. Science of the Total Environment, 2020, 749, 141555.	3.9	150
3	Implementing stricter environmental regulation to enhance eco-efficiency and sustainability: a case study of Shandong Provinceâ€™s pulp and paper industry, China. Journal of Cleaner Production, 2011, 19, 303-310.	4.6	148
4	â€œMicroplastic communitiesâ€•in different environments: Differences, links, and role of diversity index in source analysis. Water Research, 2021, 188, 116574.	5.3	119
5	The ecology of the plastisphere: Microbial composition, function, assembly, and network in the freshwater and seawater ecosystems. Water Research, 2021, 202, 117428.	5.3	116
6	Shifts in microbial community function and structure along the successional gradient of coastal wetlands in Yellow River Estuary. European Journal of Soil Biology, 2012, 49, 12-21.	1.4	108
7	Invasive alien plant species in China: regional distribution patterns. Diversity and Distributions, 2005, 11, 341-347.	1.9	103
8	Composition and distribution of microbial communities in natural river wetlands and corresponding constructed wetlands. Ecological Engineering, 2017, 98, 40-48.	1.6	75
9	Insight into the effect of nitrogen-rich substrates on the community structure and the co-occurrence network of thermophiles during lignocellulose-based composting. Bioresource Technology, 2021, 319, 124111.	4.8	71
10	Altitudinal Patterns of Species Diversity and Phylogenetic Diversity across Temperate Mountain Forests of Northern China. PLoS ONE, 2016, 11, e0159995.	1.1	70
11	Ecological Consequences of Clonal Integration in Plants. Frontiers in Plant Science, 2016, 7, 770.	1.7	67
12	Effects of vegetation type on soil microbial community structure and catabolic diversity assessed by polyphasic methods in North China. Journal of Environmental Sciences, 2007, 19, 1228-1234.	3.2	60
13	Impact of microplastics on microbial community in sediments of the Huangjinxia Reservoirâ€”water source of a water diversion project in western China. Chemosphere, 2020, 253, 126740.	4.2	57
14	Characterization and Initial Application of Endophytic Bacillus safensis Strain ZY16 for Improving Phytoremediation of Oil-Contaminated Saline Soils. Frontiers in Microbiology, 2019, 10, 991.	1.5	49
15	Competitive interaction between the exotic plant Rhus typhina L. and the native tree Quercus acutissima Carr. in Northern China under different soil N:P ratios. Plant and Soil, 2013, 372, 389-400.	1.8	47
16	Increased nitrogen deposition alleviated the competitive effects of the introduced invasive plant Robinia pseudoacacia on the native tree Quercus acutissima. Plant and Soil, 2014, 385, 63-75.	1.8	45
17	Cuscuta australis restrains three exotic invasive plants and benefits native species. Biological Invasions, 2011, 13, 747-756.	1.2	44
18	Global networks for invasion science: benefits, challenges and guidelines. Biological Invasions, 2017, 19, 1081-1096.	1.2	44

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19	Increased nitrogen deposition alleviated the adverse effects of drought stress on Quercus variabilis and Quercus mongolica seedlings. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	40
20	Simulating urban expansion by coupling a stochastic cellular automata model and socioeconomic indicators. Stochastic Environmental Research and Risk Assessment, 2010, 24, 235-245.	1.9	37
21	Shifts in growth and competitive dominance of the invasive plant Alternanthera philoxeroides under different nitrogen and phosphorus supply. Environmental and Experimental Botany, 2017, 135, 118-125.	2.0	36
22	Diverse responses of spring phenology to preseason drought and warming under different biomes in the North China Plain. Science of the Total Environment, 2021, 766, 144437.	3.9	36
23	The effects of clonal integration on morphological plasticity and placement of daughter ramets in black locust (Robinia pseudoacacia). Flora: Morphology, Distribution, Functional Ecology of Plants, 2006, 201, 547-554.	0.6	35
24	Native Cuscuta campestris restrains exotic Mikania micrantha and enhances soil resources beneficial to natives in the invaded communities. Biological Invasions, 2009, 11, 835-844.	1.2	34
25	Which components of plant diversity are most correlated with ecosystem properties? A case study in a restored wetland in northern China. Ecological Indicators, 2015, 49, 228-236.	2.6	31
26	Effects of emergent aquatic plants on nitrogen transformation processes and related microorganisms in a constructed wetland in northern China. Plant and Soil, 2019, 443, 473-492.	1.8	29
27	Water integration patterns in two rhizomatous dune perennials of different clonal fragment size. Flora: Morphology, Distribution, Functional Ecology of Plants, 2007, 202, 106-110.	0.6	28
28	Altitudinal patterns illustrate the invasion mechanisms of alien plants in temperate mountain forests of northern China. Forest Ecology and Management, 2015, 351, 1-8.	1.4	28
29	Response of microbial community composition and function to emergent plant rhizosphere of a constructed wetland in northern China. Applied Soil Ecology, 2021, 168, 104141.	2.1	28
30	Bottom-up and top-down effects on phytoplankton communities in two freshwater lakes. PLoS ONE, 2020, 15, e0231357.	1.1	26
31	Incorporating spatial autocorrelation into cellular automata model: An application to the dynamics of Chinese tamarisk (Tamarix chinensis Lour.). Ecological Modelling, 2009, 220, 3490-3498.	1.2	25
32	Factors affecting distribution patterns of organic carbon in sediments at regional and national scales in China. Scientific Reports, 2017, 7, 5497.	1.6	23
33	Functional traits contributed to the superior performance of the exotic speciesRobinia pseudoacacia: a comparison with the native treeSophora japonica. Tree Physiology, 2016, 36, 345-355.	1.4	22
34	The strategic ecological impact assessment of urban development policies: a case study of Rizhao City, China. Stochastic Environmental Research and Risk Assessment, 2009, 23, 1169-1180.	1.9	20
35	The development and practices of Strategic Environmental Assessment in Shandong Province, China. Environmental Impact Assessment Review, 2009, 29, 408-420.	4.4	20
36	Differences of the microbial community structures and predicted metabolic potentials in the lake, river, and wetland sediments in Dongping Lake Basin. Environmental Science and Pollution Research, 2020, 27, 19661-19677.	2.7	20

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37	Foliar dust as a reliable environmental monitor of heavy metal pollution in comparison to plant leaves and soil in urban areas. Chemosphere, 2022, 287, 132341.	4.2	20
38	Distribution of Organic Carbon in the Sediments of Xinxue River and the Xinxue River Constructed Wetland, China. PLoS ONE, 2015, 10, e0134713.	1.1	19
39	Cellular automata model as an intuitive approach to simulate complex land-use changes: an evaluation of two multi-state land-use models in the Yellow River Delta. Stochastic Environmental Research and Risk Assessment, 2013, 27, 899-907.	1.9	18
40	Climate-dependence of ecosystem services in a nature reserve in northern China. PLoS ONE, 2018, 13, e0192727.	1.1	17
41	Effects of submergence and eutrophication on the morphological traits and biomass allocation of the invasive plantAlternanthera philoxeroides. Journal of Freshwater Ecology, 2016, 31, 341-349.	0.5	15
42	Increased soil moisture aggravated the competitive effects of the invasive tree Rhus typhina on the native tree Cotinus coggygria. BMC Ecology, 2020, 20, 17.	3.0	15
43	Effects of Flavonoids from Potamogeton crispus L. on Proliferation, Migration, and Invasion of Human Ovarian Cancer Cells. PLoS ONE, 2015, 10, e0130685.	1.1	14
44	Negative relationship between diversity and productivity under plant invasion. Ecological Research, 2018, 33, 949-957.	0.7	14
45	Morphological response of Vitex negundo var. heterophylla and Ziziphus jujuba var. spinosa to the combined impact of drought and shade. Agroforestry Systems, 2013, 87, 403-416.	0.9	13
46	Effects of flooding on the germination of seed banks in the Nansi Lake wetlands, China. Journal of Freshwater Ecology, 2013, 28, 225-237.	0.5	13
47	Spatio-temporal analysis of the coupling relationship between urbanization and eco-environment in backward regions of China. Environmental Science and Pollution Research, 2022, 29, 7406-7423.	2.7	13
48	Evaluating renewable natural resources flow and net primary productivity with a GIS-Emergy approach: A case study of Hokkaido, Japan. Scientific Reports, 2016, 6, 37552.	1.6	12
49	Long-term monitoring of community succession in impoundment lake: Responses of macroinvertebrate to South-to-North Water Diversion Project. Ecological Indicators, 2020, 118, 106734.	2.6	12
50	The content, composition, and influencing factors of organic carbon in the sediments of two types of constructed wetlands. Environmental Science and Pollution Research, 2021, 28, 49206-49219.	2.7	12
51	Impact of socioeconomic development on ecosystem services and its conservation strategies: a case study of Shandong Province, China. Environmental Monitoring and Assessment, 2012, 184, 3213-3229.	1.3	11
52	Risk analysis on heavy metal contamination in sediments of rivers flowing into Nansi Lake. Environmental Science and Pollution Research, 2017, 24, 26910-26918.	2.7	11
53	Factors controlling organic carbon distributions in a riverine wetland. Environmental Science and Pollution Research, 2020, 27, 34529-34540.	2.7	11
54	Effects of Contemporary Land Use Types and Conversions from Wetland to Paddy Field or Dry Land on Soil Organic Carbon Fractions. Sustainability, 2020, 12, 2094.	1.6	11

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55	A combined method for the source apportionment of sediment organic carbon in rivers. Science of the Total Environment, 2021, 752, 141840.	3.9	11
56	Plant invasions in China: an emerging hot topic inÂinvasion science. NeoBiota, 0, 15, 27-51.	1.0	11
57	Genetic diversity of the endangered speciesRosa rugosaThunb. in China and implications for conservation strategies. Journal of Systematics and Evolution, 2009, 47, 515-524.	1.6	10
58	Emergy-based evaluation of system sustainability and ecosystem value of a large-scale constructed wetland in North China. Environmental Monitoring and Assessment, 2013, 185, 5595-5609.	1.3	10
59	The soil seed banks of typical communities in wetlands converted from farmlands by different restoration methods in Nansi Lake, China. Ecological Engineering, 2013, 60, 108-115.	1.6	10
60	Roles of Clonal Integration in both Heterogeneous and Homogeneous Habitats. Frontiers in Plant Science, 2016, 7, 551.	1.7	10
61	Hierarchy of plasticity traits in responses of Quercus aliena to light conditions and water availability. Dendrobiology, 0, 74, 169-180.	0.6	10
62	Dominance of an alien shrub Rhus typhina over a native shrub Vitex negundo var. heterophylla under variable water supply patterns. PLoS ONE, 2017, 12, e0176491.	1.1	10
63	Differentiated Responses of Plankton and Zoobenthos to Water Quality Based on Annual and Seasonal Analysis in a Freshwater Lake. Polish Journal of Environmental Studies, 2017, 26, 755-764.	0.6	10
64	Genetic diversity of the invasive plant Coreopsis grandiflora at different altitudes in Laoshan Mountain, China. Canadian Journal of Plant Science, 2008, 88, 831-837.	0.3	9
65	Methane emissions from wetlands in China: effects of wetland type and climate zone. Carbon Management, 2014, 5, 535-541.	1.2	8
66	Alternanthera philoxeroides invasion affects the soil seed bank of reed community. Environmental and Experimental Botany, 2020, 180, 104196.	2.0	8
67	Restraints onMikania micranthabyCuscuta campestrisfacilitates restoration of the disturbed ecosystems. Biodiversity, 2009, 10, 72-78.	0.5	7
68	The National Distribution Pattern and Factors Affecting Heavy Metals in Sediments of Water Systems in China. Soil and Sediment Contamination, 2018, 27, 79-97.	1.1	7
69	Isotope-based water-use efficiency of major greening plants in a sponge city in northern China. PLoS ONE, 2019, 14, e0220083.	1.1	7
70	Development models matter to the mutual growth of ecosystem services and household incomes in developing rural neighborhoods. Ecological Indicators, 2020, 115, 106363.	2.6	7
71	Diverse drivers of phytoplankton dynamics in different phyla across the annual cycle in a freshwater lake. Journal of Freshwater Ecology, 2021, 36, 13-29.	0.5	7
72	The Relationship between the Distribution of Invasive Plant Alternanthera philoxeroides and Soil Properties is Scale-Dependent. Polish Journal of Environmental Studies, 2015, 24, 1931-1938.	0.6	7

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73	Relationships Between Plant Species Richness and Environmental Factors in Nature Reserves at Different Spatial Scales. Polish Journal of Environmental Studies, 2017, 26, 2375-2384.	0.6	7
74	Differences in sediment carbon-fixation rate and associated bacterial communities in four wetland types in Hulun Lake Basin. Catena, 2022, 213, 106167.	2.2	7
75	Recurrent Water Level Fluctuation Alleviates the Effects of Submergence Stress on the Invasive Riparian Plant Alternanthera philoxeroides. PLoS ONE, 2015, 10, e0129549.	1.1	6
76	The use of meteorological data to assess the cooling service of forests. Ecosystem Services, 2017, 25, 28-34.	2.3	6
77	The decomposition process and nutrient release of invasive plant litter regulated by nutrient enrichment and water level change. PLoS ONE, 2021, 16, e0250880.	1.1	6
78	A novel organic carbon accumulation mechanism in croplands in the Yellow River Delta, China. Science of the Total Environment, 2022, 806, 150629.	3.9	6
79	Factors controlling soil organic carbon content in wetlands at multiple scales and assessment of the universality of estimation equations: A mega-data study. Science of the Total Environment, 2022, 827, 154380.	3.9	6
80	Facilitation or Competition? The Effects of the Shrub Species Tamarix chinensis on Herbaceous Communities are Dependent on the Successional Stage in an Impacted Coastal Wetland of North China. Wetlands, 2017, 37, 899-911.	0.7	5
81	Riparian leaf litter decomposition on pond bottom after a retention on floating vegetation. Ecology and Evolution, 2019, 9, 9376-9384.	0.8	5
82	Factors affecting community structures of benthic macroinvertebrates and microorganisms in Yellow River Delta wetlands: Seasons, habitats, and interactions of organisms. Ecohydrology and Hydrobiology, 2020, 20, 570-583.	1.0	5
83	Magnitudes and environmental drivers of greenhouse gas emissions from natural wetlands in China based on unbiased data. Environmental Science and Pollution Research, 2021, 28, 44973-44986.	2.7	5
84	The response of net primary productivity to climate change and its impact on hydrology in a water-limited agricultural basin. Environmental Science and Pollution Research, 2021, , 1.	2.7	5
85	Coupling and metabolic analysis of urbanization and environment between two resource-based cities in North China. PeerJ, 2019, 7, e6869.	0.9	5
86	Strategic assessment of fuel taxation in energy conservation and CO2 reduction for road transportation: a case study from China. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1231-1238.	1.9	4
87	Composition and Distribution of Organic Carbon in River Sediments: a Case Study of Two Northern Chinese Rivers. Polish Journal of Environmental Studies, 2015, 24, 969-975.	0.6	4
88	Quantifying the responses of biological indices to rare macroinvertebrate taxa exclusion: Does excluding more rare taxa cause more error?. Ecology and Evolution, 2017, 7, 1583-1591.	0.8	4
89	Factors Affecting Alien and Native Plant Species Richness in Temperate Nature Reserves of Northern China. Polish Journal of Ecology, 2017, 65, 320-333.	0.2	4
90	High Colonization Possibility of Some Species of Weeds in Suaeda salsa Community: From an Ecological Stoichiometry Perspective. PLoS ONE, 2017, 12, e0170401.	1.1	4

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91	Salinity stress modulates habitat selection in the clonal plant Aeluropus sinensis subjected to crude oil deposition^{1,}². Journal of the Torrey Botanical Society, 2011, 138, 262-271.	0.1	3
92	Patterns of macroinvertebrate richness in 62 lakes in China. Journal of Freshwater Ecology, 2015, 30, 323-334.	0.5	3
93	Pond-bottom decomposition of leaf litters canopied by free-floating vegetation. Environmental Science and Pollution Research, 2019, 26, 8248-8256.	2.7	3
94	The Invasion of Alternanthera philoxeroides Increased Soil Organic Carbon in a River and a Constructed Wetland With Different Mechanisms. Frontiers in Ecology and Evolution, 2020, 8, .	1.1	2
95	Composition Characteristics of Organic Matter and Bacterial Communities under the Alternanthera philoxeroide Invasion in Wetlands. Applied Sciences (Switzerland), 2020, 10, 5571.	1.3	2
96	THE ECOLOGICAL IMPACT ASSESSMENT OF URBAN DEVELOPMENT POLICIES: A CASE STUDY OF JI'NAN CITY, CHINA. Journal of Environmental Assessment Policy and Management, 2009, 11, 427-450.	4.3	1
97	Antitumor Constituents of the Wetland Plant Nymphoides peltata: A Case Study for the Potential Utilization of Constructed Wetland Plant Resources. Natural Product Communications, 2015, 10, 1934578X1501000.	0.2	1
98	The Effects of Bridge Abutments on the Benthic Macroinvertebrate Community. Polish Journal of Environmental Studies, 2016, 25, 1331-1337.	0.6	1
99	Tradeoffs and Time Lag in Ecosystem Services during Degradation and Restoration Processes in a Freshwater Lake Region in Northern China. Polish Journal of Environmental Studies, 2020, 29, 1219-1228.	0.6	1
100	Effects of Salinity and Oil Contamination on the Soil Seed Banks of Three Dominant Vegetation Communities in the Coastal Wetland of the Yellow River Delta. Forests, 2022, 13, 615.	0.9	1
101	AN ATTEMPT TO IDENTIFY CULTURAL ECOSYSTEM SERVICES AND RELATED LAND USE TYPES IN RURAL AREAS UNDER URBANIZATION. Environment & Ecosystem Science, 2021, 5, 121-128.	0.3	0