

Yong Jiang

List of Publications by Year in descending order

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120
papers

4,045
citations

109137

35
h-index

155451

55
g-index

134
all docs

134
docs citations

134
times ranked

3967
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature sensitivity of SOM decomposition is linked with a K-selected microbial community. <i>Global Change Biology</i> , 2021, 27, 2763-2779.	4.2	155
2	Microbial Taxa Distribution Is Associated with Ecological Trophic Cascades along an Elevation Gradient. <i>Frontiers in Microbiology</i> , 2017, 8, 2071.	1.5	144
3	Environmental changes drive the temporal stability of semi-arid natural grasslands through altering species asynchrony. <i>Journal of Ecology</i> , 2015, 103, 1308-1316.	1.9	143
4	Responses of enzymatic activities within soil aggregates to 9-year nitrogen and water addition in a semi-arid grassland. <i>Soil Biology and Biochemistry</i> , 2015, 81, 159-167.	4.2	140
5	Soil chemical and microbiological properties along a chronosequence of <i>Caragana microphylla</i> Lam. plantations in the Horqin sandy land of Northeast China. <i>Applied Soil Ecology</i> , 2008, 40, 78-85.	2.1	128
6	Responses of ammonia-oxidizing bacteria and archaea to nitrogen fertilization and precipitation increment in a typical temperate steppe in Inner Mongolia. <i>Applied Soil Ecology</i> , 2013, 68, 36-45.	2.1	116
7	Release and Activity of Allelochemicals from Allelopathic Rice Seedlings. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 2861-2865.	2.4	113
8	Coupled response of soil carbon and nitrogen pools and enzyme activities to nitrogen and water addition in a semi-arid grassland of Inner Mongolia. <i>Plant and Soil</i> , 2014, 381, 323-336.	1.8	99
9	Exacerbated nitrogen limitation ends transient stimulation of grassland productivity by increased precipitation. <i>Ecological Monographs</i> , 2017, 87, 457-469.	2.4	87
10	Responses of Soil Bacterial Communities to Nitrogen Deposition and Precipitation Increment Are Closely Linked with Aboveground Community Variation. <i>Microbial Ecology</i> , 2016, 71, 974-989.	1.4	86
11	Soil bacterial communities of different natural forest types in Northeast China. <i>Plant and Soil</i> , 2014, 383, 203-216.	1.8	82
12	Long-term effect of fertility management on the soil nematode community in vegetable production under greenhouse conditions. <i>Applied Soil Ecology</i> , 2010, 46, 111-118.	2.1	79
13	Responses of soil microbial functional genes to global changes are indirectly influenced by aboveground plant biomass variation. <i>Soil Biology and Biochemistry</i> , 2017, 104, 18-29.	4.2	75
14	Influence of nitrogen and phosphorus additions on N ₂ -fixation activity, abundance, and composition of diazotrophic communities in a Chinese fir plantation. <i>Science of the Total Environment</i> , 2018, 619-620, 1530-1537.	3.9	73
15	Effects of Water and Nitrogen Addition on Species Turnover in Temperate Grasslands in Northern China. <i>PLoS ONE</i> , 2012, 7, e39762.	1.1	64
16	Plant nutrients do not covary with soil nutrients under changing climatic conditions. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1298-1308.	1.9	62
17	Plant functional diversity modulates global environmental change effects on grassland productivity. <i>Journal of Ecology</i> , 2018, 106, 1941-1951.	1.9	61
18	Variations in soil bacterial taxonomic profiles and putative functions in response to straw incorporation combined with N fertilization during the maize growing season. <i>Agriculture, Ecosystems and Environment</i> , 2019, 283, 106578.	2.5	59

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19	Distribution of Soil Enzyme Activities and Microbial Biomass Along a Latitudinal Gradient in Farmlands of Songliao Plain, Northeast China. <i>Pedosphere</i> , 2008, 18, 431-440.	2.1	58
20	Soil microbial food web responses to free-air ozone enrichment can depend on the ozone-tolerance of wheat cultivars. <i>Soil Biology and Biochemistry</i> , 2012, 47, 27-35.	4.2	57
21	Sensitivities to nitrogen and water addition vary among microbial groups within soil aggregates in a semiarid grassland. <i>Biology and Fertility of Soils</i> , 2017, 53, 129-140.	2.3	57
22	Vertical distribution of soil nematodes under different land use types in an aquatic brown soil. <i>Pedobiologia</i> , 2005, 49, 139-148.	0.5	55
23	The effects of a 9-year nitrogen and water addition on soil aggregate phosphorus and sulfur availability in a semi-arid grassland. <i>Ecological Indicators</i> , 2016, 61, 806-814.	2.6	54
24	Precipitation-mediated responses of soil acid buffering capacity to long-term nitrogen addition in a semi-arid grassland. <i>Atmospheric Environment</i> , 2017, 170, 312-318.	1.9	53
25	Effects of experimentally-enhanced precipitation and nitrogen on resistance, recovery and resilience of a semi-arid grassland after drought. <i>Oecologia</i> , 2014, 176, 1187-1197.	0.9	52
26	Base cations and micronutrients in soil aggregates as affected by enhanced nitrogen and water inputs in a semi-arid steppe grassland. <i>Science of the Total Environment</i> , 2017, 575, 564-572.	3.9	52
27	Distribution of Soil Organic Carbon Fractions Along the Altitudinal Gradient in Changbai Mountain, China. <i>Pedosphere</i> , 2011, 21, 615-620.	2.1	51
28	Impacts of fertilization practices on pH and the pH buffering capacity of calcareous soil. <i>Soil Science and Plant Nutrition</i> , 2016, 62, 432-439.	0.8	51
29	Active summer carbon storage for winter persistence in trees at the cold alpine treeline. <i>Tree Physiology</i> , 2018, 38, 1345-1355.	1.4	48
30	Carbon allocation to the rhizosphere is affected by drought and nitrogen addition. <i>Journal of Ecology</i> , 2021, 109, 3699-3709.	1.9	48
31	Nematode faunal analysis in an aquatic brown soil fertilised with slow-release urea, Northeast China. <i>Applied Soil Ecology</i> , 2005, 29, 185-192.	2.1	46
32	Patterns of Plant Biomass Allocation in Temperate Grasslands across a 2500-km Transect in Northern China. <i>PLoS ONE</i> , 2013, 8, e71749.	1.1	46
33	Variations in soil microbial community composition and enzymatic activities in response to increased N deposition and precipitation in Inner Mongolian grassland. <i>Applied Soil Ecology</i> , 2017, 119, 275-285.	2.1	43
34	Community size, activity and C:N stoichiometry of soil microorganisms following reforestation in a Karst region. <i>European Journal of Soil Biology</i> , 2016, 73, 77-83.	1.4	41
35	Carbon and nitrogen allocation shifts in plants and soils along aridity and fertility gradients in grasslands of China. <i>Ecology and Evolution</i> , 2017, 7, 6927-6934.	0.8	41
36	Contrasting pH buffering patterns in neutral-alkaline soils along a 3600 km transect in northern China. <i>Biogeosciences</i> , 2015, 12, 7047-7056.	1.3	40

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37	Responses of litter decomposition and nutrient release rate to water and nitrogen addition differed among three plant species dominated in a semi-arid grassland. <i>Plant and Soil</i> , 2017, 418, 241-253.	1.8	37
38	Allelochemicals and their transformations in the <i>Ageratum conyzoides</i> intercropped citrus orchard soils. <i>Plant and Soil</i> , 2004, 264, 149-157.	1.8	36
39	Carbon and Nitrogen Dynamics in Soil Aggregates under Long-Term Nitrogen and Water Addition in a Temperate Steppe. <i>Soil Science Society of America Journal</i> , 2015, 79, 527-535.	1.2	36
40	Nitrogen enrichment buffers phosphorus limitation by mobilizing mineral-bound soil phosphorus in grasslands. <i>Ecology</i> , 2022, 103, e3616.	1.5	35
41	Soil microbial beta-diversity is linked with compositional variation in aboveground plant biomass in a semi-arid grassland. <i>Plant and Soil</i> , 2018, 423, 465-480.	1.8	33
42	Effect of elevated CO ₂ and N fertilisation on soil nematode abundance and diversity in a wheat field. <i>Applied Soil Ecology</i> , 2007, 36, 63-69.	2.1	32
43	The broad-host-range plasmid pSFA231 isolated from petroleum-contaminated sediment represents a new member of the PromA plasmid family. <i>Frontiers in Microbiology</i> , 2014, 5, 777.	1.5	32
44	The accumulation and health risk of heavy metals in vegetables around a zinc smelter in northeastern China. <i>Environmental Science and Pollution Research</i> , 2016, 23, 25114-25126.	2.7	32
45	Experimentally increased water and nitrogen affect root production and vertical allocation of an old-field grassland. <i>Plant and Soil</i> , 2017, 412, 369-380.	1.8	32
46	Thresholds in decoupled soil-plant elements under changing climatic conditions. <i>Plant and Soil</i> , 2016, 409, 159-173.	1.8	30
47	Linkages between the temperature sensitivity of soil respiration and microbial life strategy are dependent on sampling season. <i>Soil Biology and Biochemistry</i> , 2022, 172, 108758.	4.2	30
48	A threshold reveals decoupled relationship of sulfur with carbon and nitrogen in soils across arid and semi-arid grasslands in northern China. <i>Biogeochemistry</i> , 2016, 127, 141-153.	1.7	29
49	Phosphorus Supply Increases Nitrogen Transformation Rates and Retention in Soil: A Global Meta-Analysis. <i>Earth's Future</i> , 2022, 10, .	2.4	29
50	Semiochemicals from ovaries of gravid females attract ovipositing female houseflies, <i>Musca domestica</i> . <i>Journal of Insect Physiology</i> , 2002, 48, 945-950.	0.9	28
51	Effects of nitrogen and water addition on trace element stoichiometry in five grassland species. <i>Journal of Plant Research</i> , 2017, 130, 659-668.	1.2	28
52	Compositional and functional responses of soil microbial communities to long-term nitrogen and phosphorus addition in a calcareous grassland. <i>Pedobiologia</i> , 2020, 78, 150612.	0.5	28
53	Nematode communities in greenhouse soil of different ages from Shenyang suburb. <i>Helminthologia</i> , 2006, 43, 51-55.	0.3	27
54	Vertical distribution of soil nematodes in an age sequence of <i>Caragana microphylla</i> plantations in the Horqin Sandy Land, Northeast China. <i>Ecological Research</i> , 2007, 22, 49-56.	0.7	27

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55	Intensity and frequency of nitrogen addition alter soil chemical properties depending on mowing management in a temperate steppe. <i>Journal of Environmental Management</i> , 2018, 224, 77-86.	3.8	27
56	Weathering of pyrogenic organic matter induces fungal oxidative enzyme response in single culture inoculation experiments. <i>Organic Geochemistry</i> , 2016, 92, 32-41.	0.9	26
57	Soil nematode responses to heavy metal stress. <i>Helminthologia</i> , 2007, 44, 87-91.	0.3	25
58	Variations in leaf carbon isotope composition along an arid and semi-arid grassland transect in northern China. <i>Journal of Plant Ecology</i> , 2016, 9, 576-585.	1.2	25
59	Effects of amendments on phosphorous status in soils with different phosphorous levels. <i>Catena</i> , 2019, 172, 97-103.	2.2	25
60	A novel ¹³ C pulse labelling method to quantify the contribution of rhizodeposits to soil respiration in a grassland exposed to drought and nitrogen addition. <i>New Phytologist</i> , 2021, 230, 857-866.	3.5	25
61	Spatial distribution of bacterivorous nematodes in a Chinese Ecosystem Research Network (CERN) site. <i>Ecological Research</i> , 2005, 20, 481-486.	0.7	23
62	Antithetical effects of nitrogen and water availability on community similarity of semiarid grasslands: evidence from a nine-year manipulation experiment. <i>Plant and Soil</i> , 2015, 397, 357-369.	1.8	23
63	Soil exchangeable base cations along a chronosequence of <i>Caragana microphylla</i> plantation in a semi-arid sandy land, China. <i>Journal of Arid Land</i> , 2013, 5, 42-50.	0.9	21
64	Vertical Distribution and Seasonal Fluctuation of Nematode Trophic Groups as Affected by Land Use. <i>Pedosphere</i> , 2006, 16, 169-176.	2.1	20
65	Aboveground-belowground biodiversity linkages differ in early and late successional temperate forests. <i>Scientific Reports</i> , 2015, 5, 12234.	1.6	20
66	Carbon storage and plant-soil linkages among soil aggregates as affected by nitrogen enrichment and mowing management in a meadow grassland. <i>Plant and Soil</i> , 2020, 457, 407-420.	1.8	20
67	Sheep manure application increases soil exchangeable base cations in a semi-arid steppe of Inner Mongolia. <i>Journal of Arid Land</i> , 2015, 7, 361-369.	0.9	19
68	Elevation alters carbon and nutrient concentrations and stoichiometry in <i>Quercus aquifolioides</i> in southwestern China. <i>Science of the Total Environment</i> , 2018, 622-623, 1463-1475.	3.9	19
69	Latitudinal pattern of soil lignin/cellulose content and the activity of their degrading enzymes across a temperate forest ecosystem. <i>Ecological Indicators</i> , 2019, 102, 557-568.	2.6	19
70	Response of soil nematode communities to long-term application of inorganic fertilizers in the black soil of Northeast China. <i>Frontiers of Biology in China: Selected Publications From Chinese Universities</i> , 2009, 4, 111-116.	0.2	17
71	Fate of atmospherically deposited NH_4^+ and NO_3^- in two temperate forests in China: temporal pattern and redistribution. <i>Ecological Applications</i> , 2019, 29, e01920.	1.8	17
72	Enhanced carbon acquisition and use efficiency alleviate microbial carbon relative to nitrogen limitation under soil acidification. <i>Ecological Processes</i> , 2021, 10, .	1.6	17

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73	Effects of nitrogen addition on plant-soil micronutrients vary with nitrogen form and mowing management in a meadow steppe. <i>Environmental Pollution</i> , 2021, 289, 117969.	3.7	17
74	Nematode Faunal Response to Grassland Degradation in Horqin Sandy Land. <i>Pedosphere</i> , 2007, 17, 611-618.	2.1	16
75	Diversification of broad host range plasmids correlates with the presence of antibiotic resistance genes. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiv151.	1.3	16
76	Decoupling of plant and soil metal nutrients as affected by nitrogen addition in a meadow steppe. <i>Plant and Soil</i> , 2019, 443, 337-351.	1.8	16
77	Exogenous phosphorus compounds interact with nitrogen availability to regulate dynamics of soil inorganic phosphorus fractions in a meadow steppe. <i>Biogeosciences</i> , 2019, 16, 4293-4306.	1.3	16
78	Natural abundance of ¹³ C and ¹⁵ N provides evidence for plant-soil carbon and nitrogen dynamics in a N-fertilized meadow. <i>Ecology</i> , 2021, 102, e03348.	1.5	16
79	Changes in soil chemical properties as affected by pyrogenic organic matter amendment with different intensity and frequency. <i>Geoderma</i> , 2017, 289, 161-168.	2.3	15
80	PCR-DGGE Analysis of Nematode Diversity in Cu-Contaminated Soil. <i>Pedosphere</i> , 2008, 18, 621-627.	2.1	14
81	Influences of land use history and short-term nitrogen addition on community structure in temperate grasslands. <i>Journal of Arid Environments</i> , 2012, 87, 103-109.	1.2	14
82	The biogeochemical niche shifts of <i>Pinus sylvestris</i> var. <i>mongolica</i> along an environmental gradient. <i>Environmental and Experimental Botany</i> , 2019, 167, 103825.	2.0	14
83	Effect of soil coarseness on soil base cations and available micronutrients in a semi-arid sandy grassland. <i>Solid Earth</i> , 2016, 7, 549-556.	1.2	13
84	Response of soil carbon to nitrogen and water addition differs between labile and recalcitrant fractions: Evidence from multi-year data and different soil depths in a semi-arid steppe. <i>Catena</i> , 2019, 172, 857-865.	2.2	13
85	Reallocation of nitrogen and phosphorus from roots drives regrowth of grasses and sedges after defoliation under deficit irrigation and nitrogen enrichment. <i>Journal of Ecology</i> , 2021, 109, 4071-4080.	1.9	13
86	N and P fertilization enhanced carbon decomposition function by shifting microbes towards an r-selected community in meadow grassland soils. <i>Ecological Indicators</i> , 2021, 132, 108306.	2.6	13
87	Availability of soil base cations and micronutrients along soil profile after 13-year nitrogen and water addition in a semi-arid grassland. <i>Biogeochemistry</i> , 2021, 152, 223-236.	1.7	12
88	Effect of Zinc Addition to Soil on Nematode Community Structure. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2006, 76, 589-594.	1.3	11
89	Utility of nematode <i>Acrobeloides nanus</i> for assessing subacute toxicity of heavy metals. <i>Environmental Monitoring and Assessment</i> , 2010, 164, 273-278.	1.3	11
90	Photooxidation of pyrogenic organic matter reduces its reactive, labile C pool and the apparent soil oxidative microbial enzyme response. <i>Geoderma</i> , 2017, 293, 10-18.	2.3	11

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91	Vertical variation and storage of nitrogen in an aquatic brown soil under different land uses. <i>Journal of Forestry Research</i> , 2004, 15, 192-196.	1.7	10
92	Low carbon availability in paleosols nonlinearly attenuates temperature sensitivity of soil organic matter decomposition. <i>Global Change Biology</i> , 2022, 28, 4180-4193.	4.2	10
93	Effects of variability in land surface characteristics on the summer radiation budget across desert-oasis region in Northwestern China. <i>Theoretical and Applied Climatology</i> , 2015, 119, 771-780.	1.3	9
94	Responses and sensitivity of N, P and mobile carbohydrates of dominant species to increased water, N and P availability in semi-arid grasslands in northern China. <i>Journal of Plant Ecology</i> , 2016, , rtw053.	1.2	9
95	Soil properties determine the elevational patterns of base cations and micronutrients in the plant-soil system up to the upper limits of trees and shrubs. <i>Biogeosciences</i> , 2018, 15, 1763-1774.	1.3	9
96	Leaf and Soil $\delta^{15}N$ Patterns Along Elevational Gradients at Both Treelines and Shrublines in Three Different Climate Zones. <i>Forests</i> , 2019, 10, 557.	0.9	9
97	Carbon efficiency for nutrient acquisition (CENA) by plants: role of nutrient availability and microbial symbionts. <i>Plant and Soil</i> , 2022, 476, 289-300.	1.8	9
98	Scale dependent responses of pine reproductive traits to experimental and natural precipitation gradients. <i>Environmental and Experimental Botany</i> , 2018, 156, 62-73.	2.0	8
99	Responses of Nutrients and Mobile Carbohydrates in <i>Quercus variabilis</i> Seedlings to Environmental Variations Using In Situ and Ex Situ Experiments. <i>PLoS ONE</i> , 2013, 8, e61192.	1.1	7
100	Elevational patterns of endogenous hormones and their relation to resprouting ability of <i>Quercus aquifolioides</i> plants on the eastern edge of the Tibetan Plateau. <i>Trees - Structure and Function</i> , 2014, 28, 359-372.	0.9	7
101	Alteration of soil carbon and nitrogen pools and enzyme activities as affected by increased soil coarseness. <i>Biogeosciences</i> , 2017, 14, 2155-2166.	1.3	7
102	Carbon and nutrient physiology in shrubs at the upper limits: a multispecies study. <i>Journal of Plant Ecology</i> , 2021, 14, 301-309.	1.2	7
103	Response of Nematodes in a Hapli-Udic Argosol to Urea Amended with Urease and Nitrification Inhibitors. <i>Pedosphere</i> , 2006, 16, 428-434.	2.1	6
104	Short-Term vs. Long-Term Effects of Understorey Removal on Nitrogen and Mobile Carbohydrates in Overstorey Trees. <i>Forests</i> , 2016, 7, 67.	0.9	6
105	Frequency and intensity of nitrogen addition alter soil inorganic sulfur fractions, but the effects vary with mowing management in a temperate steppe. <i>Biogeosciences</i> , 2019, 16, 2891-2904.	1.3	6
106	Sulfur deposition changed the community structure of soil nematodes by affecting omnivores-predators. <i>Science of the Total Environment</i> , 2021, 771, 144912.	3.9	6
107	Distribution of soil nematode communities along a section of Shen-Ha Highway. <i>Helminthologia</i> , 2009, 46, 241-246.	0.3	5
108	Nematode Diversity in Phaeozem Agroecosystems of Northeast China. <i>Pedosphere</i> , 2009, 19, 597-605.	2.1	5

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109	Stability of elemental content correlates with plant resistance to soil impoverishment. <i>Plant and Soil</i> , 2021, 467, 213-226.	1.8	5
110	Intra-annual species gain overrides species loss in determining species richness in a typical steppe ecosystem after a decade of nitrogen enrichment. <i>Journal of Ecology</i> , 2022, 110, 1942-1956.	1.9	5
111	Spatial heterogeneity of DTPA-extractable zinc in cultivated soils induced by city pollution and land use. <i>Science in China Series C: Life Sciences</i> , 2005, 48, 82-91.	1.3	4
112	Nitrogen addition alters elemental stoichiometry within soil aggregates in a temperate steppe. <i>Solid Earth</i> , 2016, 7, 1565-1575.	1.2	4
113	Effects of Textural Layering on Water Regimes in Sandy Soils in a Desert-Oasis Ecotone, Northwestern China. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	4
114	The interaction between N and P addition on grassland soil acid buffering capacity is regulated by precipitation. <i>Soil Science and Plant Nutrition</i> , 2021, 67, 222-232.	0.8	4
115	Nutrient resorption and coupling relationships in two plant species with sulfur addition: A two-year study in a meadow. <i>Plant and Soil</i> , 2023, 491, 45-56.	1.8	4
116	Effects of vegetation coverage on the spatial distribution of soil nematode trophic groups. <i>Frontiers of Biology in China: Selected Publications From Chinese Universities</i> , 2008, 3, 63-67.	0.2	3
117	Effects of amendments on base cation and micronutrient availabilities in soils planted with tomato in a solar greenhouse. <i>Soil Science and Plant Nutrition</i> , 2018, 64, 782-792.	0.8	3
118	Beneficial effects of nitrogen deposition on carbon and nitrogen accumulation in grasses over other species in Inner Mongolian grasslands. <i>Global Ecology and Conservation</i> , 2021, 26, e01507.	1.0	3
119	Synergistic interactions between zinc and nitrogen addition in promoting plant Zn uptake as counteracted by mowing management in a meadow grassland. <i>Plant and Soil</i> , 0, , 1.	1.8	2
120	Legacy effects of nitrogen deposition and increased precipitation on plant productivity in a semi-arid grassland. <i>Plant and Soil</i> , 2023, 491, 69-84.	1.8	2