

Guoliang Wang

List of Publications by Year in descending order

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46
papers

1,670
citations

279487

23
h-index

315357

38
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all docs

47
docs citations

47
times ranked

1241
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil bacterial community dynamics reflect changes in plant community and soil properties during the secondary succession of abandoned farmland in the Loess Plateau. <i>Soil Biology and Biochemistry</i> , 2016, 97, 40-49.	4.2	438
2	Root morphology and architecture respond to N addition in <i>Pinus tabuliformis</i> , west China. <i>Oecologia</i> , 2013, 171, 583-590.	0.9	81
3	Change in composition and potential functional genes of soil bacterial and fungal communities with secondary succession in <i>Quercus liaotungensis</i> forests of the Loess Plateau, western China. <i>Geoderma</i> , 2020, 364, 114199.	2.3	63
4	Above- and belowground dynamics of plant community succession following abandonment of farmland on the Loess Plateau, China. <i>Plant and Soil</i> , 2009, 316, 227-239.	1.8	62
5	Higher temporal turnover of soil fungi than bacteria during long-term secondary succession in a semiarid abandoned farmland. <i>Soil and Tillage Research</i> , 2019, 194, 104305.	2.6	58
6	Changes in rhizospheric microbial community structure and function during the natural recovery of abandoned cropland on the Loess Plateau, China. <i>Ecological Engineering</i> , 2015, 75, 161-171.	1.6	53
7	Nitrogen addition enhanced water uptake by affecting fine root morphology and coarse root anatomy of Chinese pine seedlings. <i>Plant and Soil</i> , 2017, 418, 177-189.	1.8	47
8	Response of soil microbial communities and nitrogen thresholds of <i>Bothriochloa ischaemum</i> to short-term nitrogen addition on the Loess Plateau. <i>Geoderma</i> , 2017, 308, 112-119.	2.3	47
9	The influence of gap creation on the regeneration of <i>Pinus tabuliformis</i> planted forest and its role in the near-natural cultivation strategy for planted forest management. <i>Forest Ecology and Management</i> , 2011, 262, 413-423.	1.4	46
10	Fencing as an effective approach for restoration of alpine meadows: Evidence from nutrient limitation of soil microbes. <i>Geoderma</i> , 2020, 363, 114148.	2.3	42
11	How microbes cope with short-term N addition in a <i>Pinus tabuliformis</i> forest-ecological stoichiometry. <i>Geoderma</i> , 2019, 337, 630-640.	2.3	40
12	The responses of soil nitrogen transformation to nitrogen addition are mainly related to the changes in functional gene relative abundance in artificial <i>Pinus tabulaeformis</i> forests. <i>Science of the Total Environment</i> , 2020, 723, 137679.	3.9	39
13	Groundwater storage and depletion trends in the Loess areas of China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	37
14	Decreased temporary turnover of bacterial communities along soil depth gradient during a 35-year grazing exclusion period in a semiarid grassland. <i>Geoderma</i> , 2019, 351, 49-58.	2.3	34
15	Bacterial richness is negatively related to potential soil multifunctionality in a degraded alpine meadow. <i>Ecological Indicators</i> , 2021, 121, 106996.	2.6	34
16	Different bacterial co-occurrence patterns and community assembly between rhizosphere and bulk soils under N addition in the plant-soil system. <i>Plant and Soil</i> , 2022, 471, 697-713.	1.8	34
17	Nitrogen Addition Changes the Stoichiometry and Growth Rate of Different Organs in <i>Pinus tabuliformis</i> Seedlings. <i>Frontiers in Plant Science</i> , 2017, 8, 1922.	1.7	32
18	Nitrogen addition shifts the microbial community in the rhizosphere of <i>Pinus tabuliformis</i> in Northwestern China. <i>PLoS ONE</i> , 2017, 12, e0172382.	1.1	31

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19	Carbon allocation of Chinese pine seedlings along a nitrogen addition gradient. <i>Forest Ecology and Management</i> , 2014, 334, 114-121.	1.4	30
20	The effects of nitrogen addition on soil organic carbon decomposition and microbial C-degradation functional genes abundance in a <i>Pinus tabulaeformis</i> forest. <i>Forest Ecology and Management</i> , 2021, 489, 119098.	1.4	30
21	Nitrogen addition increases the contents of glomalin-related soil protein and soil organic carbon but retains aggregate stability in a <i>Pinus tabulaeformis</i> forest. <i>PeerJ</i> , 2018, 6, e5039.	0.9	30
22	Effect of nitrogen addition on the decomposition and release of compounds from fine roots with different diameters: the importance of initial substrate chemistry. <i>Plant and Soil</i> , 2019, 438, 281-296.	1.8	29
23	Effects of patterned <i>Artemisia capillaris</i> on overland flow velocity under simulated rainfall. <i>Hydrological Processes</i> , 2012, 26, 3779-3787.	1.1	27
24	Effects of Canopy and Roots of Patchy Distributed <i>Artemisia capillaris</i> on Runoff, Sediment, and the Spatial Variability of Soil Erosion at the Plot Scale. <i>Soil Science</i> , 2012, 177, 409-415.	0.9	24
25	Forest management practices of <i>Pinus tabulaeformis</i> plantations alter soil organic carbon stability by adjusting microbial characteristics on the Loess Plateau of China. <i>Science of the Total Environment</i> , 2021, 766, 144209.	3.9	24
26	N-induced root exudates mediate the rhizosphere fungal assembly and affect species coexistence. <i>Science of the Total Environment</i> , 2022, 804, 150148.	3.9	24
27	Nitrogen addition increases the production and turnover of the lower-order roots but not of the higher-order roots of <i>Bothriochloa ischaemum</i> . <i>Plant and Soil</i> , 2017, 415, 423-434.	1.8	22
28	Revealing the nutrient limitation and cycling for microbes under forest management practices in the Loess Plateau – Ecological stoichiometry. <i>Geoderma</i> , 2020, 361, 114108.	2.3	22
29	Effect of long-term destocking on soil fungal functional groups and interactions with plants. <i>Plant and Soil</i> , 2020, 448, 495-508.	1.8	20
30	The Effects of Nitrogen Addition on the Uptake and Allocation of Macro- and Micronutrients in <i>Bothriochloa ischaemum</i> on Loess Plateau in China. <i>Frontiers in Plant Science</i> , 2017, 8, 1476.	1.7	19
31	Grazing-to-fencing conversion affects soil microbial composition, functional profiles by altering plant functional groups in a Tibetan alpine meadow. <i>Applied Soil Ecology</i> , 2021, 166, 104008.	2.1	18
32	A new method to optimize root order classification based on the diameter interval of fine root. <i>Scientific Reports</i> , 2018, 8, 2960.	1.6	17
33	Partitioning of belowground C in young sugar maple forest. <i>Plant and Soil</i> , 2013, 367, 379-389.	1.8	16
34	Temporal dynamics of <i>Pinus tabulaeformis</i> litter decomposition under nitrogen addition on the Loess Plateau of China. <i>Forest Ecology and Management</i> , 2020, 476, 118465.	1.4	10
35	Plant-microbial feedback in secondary succession of semiarid grasslands. <i>Science of the Total Environment</i> , 2021, 760, 143389.	3.9	10
36	Planted forests intensified soil microbial metabolic nitrogen and phosphorus limitation on the Loess Plateau, China. <i>Catena</i> , 2022, 211, 105982.	2.2	10

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37	Short-term N addition in a <i>Pinus tabuliformis</i> plantation: Microbial community composition and interactions show different linkages with ecological stoichiometry. <i>Applied Soil Ecology</i> , 2022, 174, 104422.	2.1	10
38	Above- and below-ground biomass distribution and morphological characteristics respond to nitrogen addition in <i>Pinus tabuliformis</i> . <i>New Zealand Journal of Forestry Science</i> , 2016, 46, .	0.8	8
39	Effects of rhizosphere interactions of grass interspecies on the soil microbial properties during the natural succession in the Loess Plateau. <i>European Journal of Soil Biology</i> , 2018, 85, 79-88.	1.4	7
40	Effects of nitrogen addition on soil oxidisable organic carbon fractions in the rhizospheric and bulk soils of Chinese pines in north-western China. <i>Soil Research</i> , 2018, 56, 192.	0.6	6
41	Natural vegetation restoration of Liaodong oak (<i>Quercus liaotungensis</i> Koidz.) forests rapidly increased the content and ratio of inert carbon in soil macroaggregates. <i>Journal of Arid Land</i> , 2019, 11, 928-938.	0.9	6
42	Progress and prospects of applied research on physical geography and the living environment in China over the past 70 years (1949–2019). <i>Journal of Chinese Geography</i> , 2021, 31, 3-45.	1.5	6
43	Contrasting effects of nitrogen addition on rhizosphere soil CO ₂ , N ₂ O, and CH ₄ emissions of fine roots with different diameters from <i>Pinus tabulaeformis</i> forest using laboratory incubation. <i>Science of the Total Environment</i> , 2021, 780, 146298.	3.9	6
44	Health diagnoses of ecosystems subject to a typical erosion environment in Zhifanggou watershed, north-west China. <i>Frontiers of Forestry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 241-250.	0.2	5
45	Aggregate binding agents improve soil aggregate stability in <i>Robinia pseudoacacia</i> forests along a climatic gradient on the Loess Plateau, China. <i>Journal of Arid Land</i> , 2021, 13, 165-174.	0.9	5
46	Effects of nitrogen addition on root respiration of trees and understory herbs at different temperatures in <i>Pinus tabulaeformis</i> forest. <i>Plant and Soil</i> , 2021, 463, 447-459.	1.8	3