

# Zhi Qun Huang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6668415/publications.pdf>

Version: 2024-02-01

67  
papers

2,943  
citations

172457

29  
h-index

182427

51  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3259  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil C:N ratio is the major determinant of soil microbial community structure in subtropical coniferous and broadleaf forest plantations. <i>Plant and Soil</i> , 2015, 387, 103-116.	3.7	201
2	Meta-analysis shows positive effects of plant diversity on microbial biomass and respiration. <i>Nature Communications</i> , 2019, 10, 1332.	12.8	184
3	Carbon storage in a chronosequence of Chinese fir plantations in southern China. <i>Forest Ecology and Management</i> , 2013, 300, 68-76.	3.2	130
4	Effect of mulching on labile soil organic matter pools, microbial community functional diversity and nitrogen transformations in two hardwood plantations of subtropical Australia. <i>Applied Soil Ecology</i> , 2008, 40, 229-239.	4.3	129
5	Niche separation of comammox <i>Nitrospira</i> and canonical ammonia oxidizers in an acidic subtropical forest soil under long-term nitrogen deposition. <i>Soil Biology and Biochemistry</i> , 2018, 126, 114-122.	8.8	129
6	Effects of plant diversity on soil carbon in diverse ecosystems: a global meta-analysis. <i>Biological Reviews</i> , 2020, 95, 167-183.	10.4	107
7	Plant defense against fungal pathogens by antagonistic fungi with <i>Trichoderma</i> in focus. <i>Microbial Pathogenesis</i> , 2019, 129, 7-18.	2.9	95
8	Temporal changes in soil C:N:P stoichiometry over the past 60 years across subtropical China. <i>Global Change Biology</i> , 2018, 24, 1308-1320.	9.5	93
9	Different responses of soil bacterial and fungal communities to nitrogen deposition in a subtropical forest. <i>Science of the Total Environment</i> , 2021, 755, 142449.	8.0	92
10	Long-term nitrogen deposition linked to reduced water use efficiency in forests with low phosphorus availability. <i>New Phytologist</i> , 2016, 210, 431-442.	7.3	85
11	Influence of repeated prescribed burning on the soil fungal community in an eastern Australian wet sclerophyll forest. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3492-3501.	8.8	81
12	Soil microbial biomass, community composition and soil nitrogen cycling in relation to tree species in subtropical China. <i>Soil Biology and Biochemistry</i> , 2013, 62, 68-75.	8.8	80
13	Changes in soil carbon during the establishment of a hardwood plantation in subtropical Australia. <i>Forest Ecology and Management</i> , 2008, 254, 46-55.	3.2	76
14	Role of environmental factors in shaping the soil microbiome. <i>Environmental Science and Pollution Research</i> , 2020, 27, 41225-41247.	5.3	68
15	Linking microbial community composition to C loss rates during wood decomposition. <i>Soil Biology and Biochemistry</i> , 2017, 104, 108-116.	8.8	64
16	Silicon-mediated plant defense against pathogens and insect pests. <i>Pesticide Biochemistry and Physiology</i> , 2020, 168, 104641.	3.6	62
17	Traits drive global wood decomposition rates more than climate. <i>Global Change Biology</i> , 2018, 24, 5259-5269.	9.5	59
18	Correlation between phytotoxicity on annual ryegrass ( <i>Lolium rigidum</i> ) and production dynamics of allelochemicals within root exudates of an allelopathic wheat. <i>Journal of Chemical Ecology</i> , 2003, 29, 2263-2279.	1.8	56

#	ARTICLE	IF	CITATIONS
19	Long-term nitrogen additions increased surface soil carbon concentration in a forest plantation despite elevated decomposition. <i>Soil Biology and Biochemistry</i> , 2011, 43, 302-307.	8.8	56
20	Allelopathy of Phenolics from Decomposing Stump-Roots in Replant Chinese Fir Woodland. <i>Journal of Chemical Ecology</i> , 2000, 26, 2211-2219.	1.8	54
21	Soil carbon pools, plant biomarkers and mean carbon residence time after afforestation of grassland with three tree species. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1341-1349.	8.8	54
22	Whole soil acidification and base cation reduction across subtropical China. <i>Geoderma</i> , 2020, 361, 114107.	5.1	50
23	Rapid accumulation of carbon on severely eroded red soils through afforestation in subtropical China. <i>Forest Ecology and Management</i> , 2013, 300, 53-59.	3.2	46
24	Plant defense against virus diseases; growth hormones in highlights. <i>Plant Signaling and Behavior</i> , 2019, 14, 1596719.	2.4	45
25	Response of mineral soil carbon storage to harvest residue retention depends on soil texture: A meta-analysis. <i>Forest Ecology and Management</i> , 2018, 408, 9-15.	3.2	43
26	Harvest residue management effects on tree growth and ecosystem carbon in a Chinese fir plantation in subtropical China. <i>Plant and Soil</i> , 2013, 364, 303-314.	3.7	42
27	The Role of Microbial Communities in the Formation and Decomposition of Soil Organic Matter. , 2010, , 81-118.		38
28	Forest Understorey Vegetation: Colonization and the Availability and Heterogeneity of Resources. <i>Forests</i> , 2019, 10, 944.	2.1	37
29	Post-harvest residue management effects on recalcitrant carbon pools and plant biomarkers within the soil heavy fraction in <i>Pinus radiata</i> plantations. <i>Soil Biology and Biochemistry</i> , 2011, 43, 404-412.	8.8	34
30	Drought accelerated recalcitrant carbon loss by changing soil aggregation and microbial communities in a subtropical forest. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107898.	8.8	34
31	Microbial diversity regulates ecosystem multifunctionality during natural secondary succession. <i>Journal of Applied Ecology</i> , 2021, 58, 2833-2842.	4.0	33
32	Functional and phylogenetic diversity promote litter decomposition across terrestrial ecosystems. <i>Global Ecology and Biogeography</i> , 2020, 29, 2261-2272.	5.8	32
33	Understorey vegetation dynamics of Chinese fir plantations and natural secondary forests in subtropical China. <i>Forest Ecology and Management</i> , 2021, 483, 118750.	3.2	31
34	Impacts of plantation forest management on soil organic matter quality. <i>Journal of Soils and Sediments</i> , 2011, 11, 1309-1316.	3.0	30
35	Nitrogen addition enhances home-field advantage during litter decomposition in subtropical forest plantations. <i>Soil Biology and Biochemistry</i> , 2015, 90, 188-196.	8.8	30
36	Litter decomposition, residue chemistry and microbial community structure under two subtropical forest plantations: A reciprocal litter transplant study. <i>Applied Soil Ecology</i> , 2016, 101, 84-92.	4.3	29

#	ARTICLE	IF	CITATIONS
37	Plant-insect vector-virus interactions under environmental change. <i>Science of the Total Environment</i> , 2020, 701, 135044.	8.0	28
38	Global soil microbial biomass decreases with aridity and land-use intensification. <i>Global Ecology and Biogeography</i> , 2021, 30, 1056-1069.	5.8	27
39	Variations in relative stomatal and biochemical limitations to photosynthesis in a young blackbutt ( <i>Eucalyptus pilularis</i> ) plantation subjected to different weed control regimes. <i>Tree Physiology</i> , 2008, 28, 997-1005.	3.1	26
40	Effects of harvest residue management on soil carbon and nitrogen processes in a Chinese fir plantation. <i>Forest Ecology and Management</i> , 2014, 326, 163-170.	3.2	23
41	Effects of mulching on growth, foliar photosynthetic nitrogen and water use efficiency of hardwood plantations in subtropical Australia. <i>Forest Ecology and Management</i> , 2008, 255, 3447-3454.	3.2	21
42	Soil nitrogen mineralization and fate of $(15\text{NH}_4)_2\text{SO}_4$ in field-incubated soil in a hardwood plantation of subtropical Australia: the effect of mulching. <i>Journal of Soils and Sediments</i> , 2008, 8, 389-397.	3.0	20
43	Assembly processes lead to divergent soil fungal communities within and among 12 forest ecosystems along a latitudinal gradient. <i>New Phytologist</i> , 2021, 231, 1183-1194.	7.3	20
44	Contribution of root traits to variations in soil microbial biomass and community composition. <i>Plant and Soil</i> , 2021, 460, 483-495.	3.7	20
45	Chemical composition of decomposing stumps in successive rotation of Chinese fir ( <i>Cunninghamia</i> ) Tj ETQq1 1 0.784314 rgBT /Over 1.7 19	1.7	19
46	Dissimilatory nitrate reduction to ammonium dominates soil nitrate retention capacity in subtropical forests. <i>Biology and Fertility of Soils</i> , 2020, 56, 785-797.	4.3	19
47	Environmental controls and the influence of tree species on temporal variation in soil respiration in subtropical China. <i>Plant and Soil</i> , 2014, 382, 75-87.	3.7	18
48	Nature restoration shifts the abundance and structure of soil nematode communities in subtropical forests. <i>Plant and Soil</i> , 2022, 471, 315-327.	3.7	18
49	Plasticity of fine-root functional traits in the litter layer in response to nitrogen addition in a subtropical forest plantation. <i>Plant and Soil</i> , 2017, 415, 317-330.	3.7	16
50	Long-term biosolids application alters the composition of soil microbial groups and nutrient status in a pine plantation. <i>Biology and Fertility of Soils</i> , 2017, 53, 799-809.	4.3	16
51	Fine root biomass and necromass dynamics of Chinese fir plantations and natural secondary forests in subtropical China. <i>Forest Ecology and Management</i> , 2021, 496, 119413.	3.2	16
52	Foliar $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ reveal differential physiological responses of canopy foliage to pre-planting weed control in a young spotted gum ( <i>Corymbia citriodora</i> subsp. <i>Variegata</i> ) plantation. <i>Tree Physiology</i> , 2008, 28, 1535-1543.	3.1	15
53	Small RNAs from Seed to Mature Plant. <i>Critical Reviews in Plant Sciences</i> , 2019, 38, 117-139.	5.7	12
54	Plants, soil properties and microbes directly and positively drive ecosystem multifunctionality in a plantation chronosequence. <i>Land Degradation and Development</i> , 2022, 33, 3049-3057.	3.9	12

#	ARTICLE	IF	CITATIONS
55	Differential response of soil microbial and animal communities along the chronosequence of <i>Cunninghamia lanceolata</i> at different soil depth levels in subtropical forest ecosystem. <i>Journal of Advanced Research</i> , 2021, 38, 41-54.	9.5	11
56	Natural forest chronosequence maintains better soil fertility indicators and assemblage of total belowground soil biota than Chinese fir monoculture in subtropical ecosystem. <i>Journal of Cleaner Production</i> , 2022, 334, 130228.	9.3	11
57	Effects of forest cover types and environmental factors on soil respiration dynamics in a coastal sand dune of subtropical China. <i>Journal of Forestry Research</i> , 2018, 29, 1645-1655.	3.6	9
58	Effect of organic matter manipulation on the seasonal variations in microbial composition and enzyme activities in a subtropical forest of China. <i>Journal of Soils and Sediments</i> , 2019, 19, 2231-2239.	3.0	9
59	Functionally dissimilar neighbours increase tree water use efficiency through enhancement of leaf phosphorus concentration. <i>Journal of Ecology</i> , 2022, 110, 2179-2189.	4.0	9
60	Functional trait variation and community-weighted means of tree traits can alter soil microbial biomass and community composition. <i>Soil Biology and Biochemistry</i> , 2022, 170, 108715.	8.8	8
61	Drivers of foliar $^{15}\text{N}$ trends in southern China over the last century. <i>Global Change Biology</i> , 2022, 28, 5441-5452.	9.5	7
62	Carbon dynamics in three subtropical forest ecosystems in China. <i>Environmental Science and Pollution Research</i> , 2020, 27, 15552-15564.	5.3	5
63	Limited potential of biosolids application for long-term soil carbon stabilization in coastal dune forests. <i>Geoderma</i> , 2021, 403, 115384.	5.1	5
64	Conference Report: Soil organic matter dynamics: beyond carbon: a report of the 4th International Symposium on Soil Organic Matter Dynamics. <i>Carbon Management</i> , 2013, 4, 485-489.	2.4	3
65	Effects of tree species transition on soil microbial biomass and community structure in subtropical China. <i>Acta Ecologica Sinica</i> , 2016, 36, 417-423.	1.9	3
66	Preface to the special issue for the 8th International Symposium on Forest Soils: Linking Soil Processes to Forest Productivity and Water Protection under Global Change. <i>Journal of Soils and Sediments</i> , 2017, 17, 2215-2217.	3.0	2
67	Chemical composition of decomposing stumps in successive rotation of Chinese fir ( <i>Cunninghamia</i> ) Tj ETQq1 1 0.784314 rgBT /Over 1.7		