

Chuankuan Wang

List of Publications by Year in descending order

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76
papers

4,017
citations

186265

28
h-index

123424

61
g-index

80
all docs

80
docs citations

80
times ranked

4944
citing authors

#	ARTICLE	IF	CITATIONS
1	A global relationship between the heterotrophic and autotrophic components of soil respiration?. <i>Global Change Biology</i> , 2004, 10, 1756-1766.	9.5	482
2	Biomass allometric equations for 10 co-occurring tree species in Chinese temperate forests. <i>Forest Ecology and Management</i> , 2006, 222, 9-16.	3.2	336
3	Patterns and mechanisms of responses by soil microbial communities to nitrogen addition. <i>Soil Biology and Biochemistry</i> , 2017, 115, 433-441.	8.8	314
4	Meta-analysis of the impacts of global change factors on soil microbial diversity and functionality. <i>Nature Communications</i> , 2020, 11, 3072.	12.8	314
5	Net primary production and net ecosystem production of a boreal black spruce wildfire chronosequence. <i>Global Change Biology</i> , 2004, 10, 473-487.	9.5	244
6	Soil respiration in six temperate forests in China. <i>Global Change Biology</i> , 2006, 12, 2103-2114.	9.5	223
7	Trends in soil microbial communities during secondary succession. <i>Soil Biology and Biochemistry</i> , 2017, 115, 92-99.	8.8	123
8	The influence of fire on carbon distribution and net primary production of boreal <i>Larix gmelinii</i> forests in north-eastern China. <i>Global Change Biology</i> , 2001, 7, 719-730.	9.5	121
9	Carbon distribution of a well- and poorly-drained black spruce fire chronosequence. <i>Global Change Biology</i> , 2003, 9, 1066-1079.	9.5	116
10	Effects of forest degradation on microbial communities and soil carbon cycling: A global meta-analysis. <i>Global Ecology and Biogeography</i> , 2018, 27, 110-124.	5.8	114
11	Rhizospheric and heterotrophic components of soil respiration in six Chinese temperate forests. <i>Global Change Biology</i> , 2007, 13, 123-131.	9.5	101
12	Response of soil microbial communities to altered precipitation: A global synthesis. <i>Global Ecology and Biogeography</i> , 2018, 27, 1121-1136.	5.8	100
13	Carbon concentration variability of 10 Chinese temperate tree species. <i>Forest Ecology and Management</i> , 2009, 258, 722-727.	3.2	98
14	Environmental controls on carbon dioxide flux from black spruce coarse woody debris. <i>Oecologia</i> , 2002, 132, 374-381.	2.0	91
15	Disturbance legacies and climate jointly drive tree growth and mortality in an intensively studied boreal forest. <i>Global Change Biology</i> , 2014, 20, 216-227.	9.5	74
16	Soil surface CO ₂ flux in a boreal black spruce fire chronosequence. <i>Journal of Geophysical Research</i> , 2003, 108, WFX 5-1.	3.3	68
17	Seasonality of soil CO ₂ efflux in a temperate forest: Biophysical effects of snowpack and spring freeze-thaw cycles. <i>Agricultural and Forest Meteorology</i> , 2013, 177, 83-92.	4.8	65
18	Stoichiometric responses of soil microflora to nutrient additions for two temperate forest soils. <i>Biology and Fertility of Soils</i> , 2017, 53, 397-406.	4.3	63

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19	Spatiotemporal measurement and modeling of stand-level boreal forest soil temperatures. <i>Agricultural and Forest Meteorology</i> , 2005, 131, 27-40.	4.8	54
20	Nitrogen dynamics of a boreal black spruce wildfire chronosequence. <i>Biogeochemistry</i> , 2006, 81, 1-16.	3.5	51
21	Impacts of forest thinning on soil microbial community structure and extracellular enzyme activities: A global meta-analysis. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107915.	8.8	43
22	Quantifying and reducing the differences in forest CO ₂ -fluxes estimated by eddy covariance, biometric and chamber methods: A global synthesis. <i>Agricultural and Forest Meteorology</i> , 2017, 247, 93-103.	4.8	40
23	Spatial variations in non-structural carbohydrates in stems of twelve temperate tree species. <i>Trees - Structure and Function</i> , 2014, 28, 77-89.	1.9	38
24	Monitoring nitrogen deposition in typical forest ecosystems along a large transect in China. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 833-844.	2.7	36
25	Effects of nutrient and paper mill biosolids amendments on the growth and nutrient status of hardwood forests. <i>Forest Ecology and Management</i> , 2003, 177, 95-116.	3.2	34
26	Carbon density and distribution of six Chinese temperate forests. <i>Science China Life Sciences</i> , 2010, 53, 831-840.	4.9	34
27	Impacts of thinning on soil carbon and nutrients and related extracellular enzymes in a larch plantation. <i>Forest Ecology and Management</i> , 2019, 450, 117523.	3.2	34
28	Reviews and syntheses: Soil resources and climate jointly drive variations in microbial biomass carbon and nitrogen in China's forest ecosystems. <i>Biogeosciences</i> , 2015, 12, 6751-6760.	3.3	32
29	Carbon storage, net primary production, and net ecosystem production in four major temperate forest types in northeastern China. <i>Canadian Journal of Forest Research</i> , 2016, 46, 143-151.	1.7	30
30	Nitrogen deposition and its spatial pattern in main forest ecosystems along north-south transect of eastern China. <i>Chinese Geographical Science</i> , 2014, 24, 137-146.	3.0	28
31	Dynamics of fine roots in five Chinese temperate forests. <i>Journal of Plant Research</i> , 2010, 123, 497-507.	2.4	27
32	Effects of thinning on soil saprotrophic and ectomycorrhizal fungi in a Korean larch plantation. <i>Forest Ecology and Management</i> , 2020, 461, 117920.	3.2	26
33	Nitrogen addition promotes soil microbial beta diversity and the stochastic assembly. <i>Science of the Total Environment</i> , 2022, 806, 150569.	8.0	26
34	Thinning promotes the nitrogen and phosphorous cycling in forest soils. <i>Agricultural and Forest Meteorology</i> , 2021, 311, 108665.	4.8	24
35	Environmental and biotic controls on the interannual variations in CO ₂ fluxes of a continental monsoon temperate forest. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108232.	4.8	23
36	Spatio-temporal patterns of forest carbon dioxide exchange based on global eddy covariance measurements. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 1129-1143.	0.9	21

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37	AllomÃ©trie du bois de cÃ©ur et de lâ€™aubier pour sept espÃ©ces dâ€™arbres tempÃ©rÃ©es chinoises. <i>Annals of Forest Science</i> , 2010, 67, 410-410.	2.0	21
38	Wind Regimes above and below a Temperate Deciduous Forest Canopy in Complex Terrain: Interactions between Slope and Valley Winds. <i>Atmosphere</i> , 2015, 6, 60-87.	2.3	21
39	Empirical models for tracing seasonal changes in leaf area index in deciduous broadleaf forests by digital hemispherical photography. <i>Forest Ecology and Management</i> , 2015, 351, 67-77.	3.2	19
40	Co-ordinated performance of leaf hydraulics and economics in 10 Chinese temperate tree species. <i>Functional Plant Biology</i> , 2016, 43, 1082.	2.1	19
41	Partitioning soil respiration of temperate forest ecosystems in northeastern China. <i>Acta Ecologica Sinica</i> , 2006, 26, 1640-1646.	1.9	17
42	Conifers but not angiosperms exhibit vulnerability segmentation between leaves and branches in a temperate forest. <i>Tree Physiology</i> , 2019, 39, 454-462.	3.1	16
43	Prediction of annual soil respiration from its flux at mean annual temperature. <i>Agricultural and Forest Meteorology</i> , 2020, 287, 107961.	4.8	16
44	Improving the CO ₂ storage measurements with a single profile system in a tall-dense-canopy temperate forest. <i>Agricultural and Forest Meteorology</i> , 2016, 228-229, 327-338.	4.8	15
45	Autumn phenology of a temperate deciduous forest: Validation of remote sensing approach with decadal leaf-litterfall measurements. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107758.	4.8	14
46	Variations in fine root dynamics and turnover rates in five forest types in northeastern China. <i>Journal of Forestry Research</i> , 2020, 31, 871-884.	3.6	14
47	Towards a standardized protocol for measuring leaf area index in deciduous forests with litterfall collection. <i>Forest Ecology and Management</i> , 2019, 447, 87-94.	3.2	13
48	Can vegetation index track the interannual variation in gross primary production of temperate deciduous forests?. <i>Ecological Processes</i> , 2021, 10, .	3.9	13
49	Increasing soil carbon stocks in eight permanent forest plots in China. <i>Biogeosciences</i> , 2020, 17, 715-726.	3.3	12
50	Contrasting responses of hydraulic traits between leaf and branch to 16-year nitrogen addition in a larch plantation. <i>Forest Ecology and Management</i> , 2020, 475, 118461.	3.2	11
51	Nutrient resorption estimation compromised by leaf mass loss and area shrinkage: Variations and solutions. <i>Forest Ecology and Management</i> , 2020, 472, 118232.	3.2	11
52	Defoliation-induced tree growth declines are jointly limited by carbon source and sink activities. <i>Science of the Total Environment</i> , 2021, 762, 143077.	8.0	10
53	Magnitude and mechanisms of nitrogen-mediated responses of tree biomass production to elevated CO ₂ : A global synthesis. <i>Journal of Ecology</i> , 2021, 109, 4038-4055.	4.0	10
54	Biotic and climatic controls on the interannual variation in canopy litterfall of a deciduous broad-leaved forest. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108483.	4.8	10

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55	On improving the accuracy of digital hemispherical photography measurements of seasonal leaf area index variation in deciduous broadleaf forests. <i>Canadian Journal of Forest Research</i> , 2015, 45, 721-731.	1.7	9
56	Differential effects of nitrogen vs. phosphorus limitation on terrestrial carbon storage in two subtropical forests: A Bayesian approach. <i>Science of the Total Environment</i> , 2021, 795, 148485.	8.0	9
57	Mycorrhizal associations differentiate soil respiration in five temperate monocultures in Northeast China. <i>Forest Ecology and Management</i> , 2018, 430, 78-85.	3.2	8
58	Measuring Vegetation Phenology with Near-Surface Remote Sensing in a Temperate Deciduous Forest: Effects of Sensor Type and Deployment. <i>Remote Sensing</i> , 2019, 11, 1063.	4.0	7
59	Responses of tree leaf gas exchange to elevated CO ₂ combined with changes in temperature and water availability: A global synthesis. <i>Global Ecology and Biogeography</i> , 2021, 30, 2500-2512.	5.8	7
60	Natural ^{15}N abundance of ammonium and nitrate in soil profiles: New insights into forest ecosystem nitrogen saturation. <i>Ecosphere</i> , 2022, 13, .	2.2	7
61	Timing of leaf fall and changes in litter nutrient concentration compromise estimates of nutrient fluxes and nutrient resorption efficiency. <i>Forest Ecology and Management</i> , 2022, 513, 120188.	3.2	7
62	Inter-specific and seasonal variations in photosynthetic capacity and water use efficiency of five temperate tree species in Northeastern China. <i>Scandinavian Journal of Forest Research</i> , 2011, 26, 21-29.	1.4	6
63	Simulating net primary production and soil-surface CO ₂ flux of temperate forests in Northeastern China. <i>Scandinavian Journal of Forest Research</i> , 2011, 26, 30-39.	1.4	6
64	Impacts of fire severity and post-fire reforestation on carbon pools in boreal larch forests in Northeast China. <i>Journal of Plant Ecology</i> , 2015, , rtv036.	2.3	5
65	Does the net primary production converge across six temperate forest types under the same climate?. <i>Forest Ecology and Management</i> , 2019, 448, 535-542.	3.2	5
66	Sampling protocols of specific leaf area for improving accuracy of the estimation of forest leaf area index. <i>Agricultural and Forest Meteorology</i> , 2021, 298-299, 108286.	4.8	5
67	Globally altitudinal trends in soil carbon and nitrogen storages. <i>Catena</i> , 2022, 210, 105870.	5.0	5
68	Coloration and phenology manifest nutrient variability in senesced leaves of 46 temperate deciduous woody species. <i>Journal of Plant Ecology</i> , 2022, 15, 700-710.	2.3	4
69	Effects of long-term nitrogen addition on soil fungal communities in two temperate plantations with different mycorrhizal associations. <i>Applied Soil Ecology</i> , 2021, 168, 104111.	4.3	4
70	Different hydraulic strategies under drought stress between <i>Fraxinus mandshurica</i> and <i>Larix gmelinii</i> seedlings. <i>Journal of Forestry Research</i> , 2023, 34, 99-111.	3.6	4
71	Sap flow of the major tree species in the eastern mountainous region in northeast China. <i>Frontiers of Forestry in China: Selected Publications From Chinese Universities</i> , 2006, 1, 387-393.	0.2	2
72	Thermal acclimation of leaf dark respiration of <i>Larix gmelinii</i> : A latitudinal transplant experiment. <i>Science of the Total Environment</i> , 2020, 743, 140634.	8.0	2

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73	The plural of anecdote is not data: Rigorously testing a boreal forest chronosequence. <i>Nature Precedings</i> , 2009, , .	0.1	0
74	Toposequence variability in tree growth associated with leaf traits for <i>Larix gmelinii</i> . <i>Forest Ecology and Management</i> , 2021, 479, 118611.	3.2	0
75	Leaf hydraulic traits of larch and ash trees in response to long-term nitrogen addition in northeast China. <i>Journal of Plant Ecology</i> , 0, , .	2.3	0
76	Effect of Biophysical Factors on Spatio-temporal Variation in Stem Respiration*. <i>Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology</i> , 2010, 2009, 880-887.	0.1	0