

# 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	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
2	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
3	Nitrogen addition promotes soil microbial beta diversity and the stochastic assembly. <i>Science of the Total Environment</i> , 2022, 806, 150569.	8.0	26
4	Globally altitudinal trends in soil carbon and nitrogen storages. <i>Catena</i> , 2022, 210, 105870.	5.0	5
5	Natural $^{15}\text{N}$ abundance of ammonium and nitrate in soil profiles: New insights into forest ecosystem nitrogen saturation. <i>Ecosphere</i> , 2022, 13, .	2.2	7
6	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
7	Environmental and biotic controls on the interannual variations in CO <sub>2</sub> fluxes of a continental monsoon temperate forest. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108232.	4.8	23
8	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
9	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
10	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
11	Can vegetation index track the interannual variation in gross primary production of temperate deciduous forests?. <i>Ecological Processes</i> , 2021, 10, .	3.9	13
12	Responses of tree leaf gas exchange to elevated CO <sub>2</sub> combined with changes in temperature and water availability: A global synthesis. <i>Global Ecology and Biogeography</i> , 2021, 30, 2500-2512.	5.8	7
13	Magnitude and mechanisms of nitrogen-mediated responses of tree biomass production to elevated CO <sub>2</sub> : A global synthesis. <i>Journal of Ecology</i> , 2021, 109, 4038-4055.	4.0	10
14	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
15	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
16	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
17	Thinning promotes the nitrogen and phosphorous cycling in forest soils. <i>Agricultural and Forest Meteorology</i> , 2021, 311, 108665.	4.8	24
18	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

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19	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
20	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
21	Prediction of annual soil respiration from its flux at mean annual temperature. <i>Agricultural and Forest Meteorology</i> , 2020, 287, 107961.	4.8	16
22	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
23	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
24	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
25	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
26	Increasing soil carbon stocks in eight permanent forest plots in China. <i>Biogeosciences</i> , 2020, 17, 715-726.	3.3	12
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	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
29	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
30	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
31	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
32	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
33	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
34	Response of soil microbial communities to altered precipitation: A global synthesis. <i>Global Ecology and Biogeography</i> , 2018, 27, 1121-1136.	5.8	100
35	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
36	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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37	Trends in soil microbial communities during secondary succession. <i>Soil Biology and Biochemistry</i> , 2017, 115, 92-99.	8.8	123
38	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
39	Quantifying and reducing the differences in forest CO <sub>2</sub> -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
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	Improving the CO <sub>2</sub> 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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	Seasonality of soil CO <sub>2</sub> 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
53	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
54	Simulating net primary production and soil-surface CO <sub>2</sub> flux of temperate forests in Northeastern China. <i>Scandinavian Journal of Forest Research</i> , 2011, 26, 30-39.	1.4	6

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55	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
56	Dynamics of fine roots in five Chinese temperate forests. <i>Journal of Plant Research</i> , 2010, 123, 497-507.	2.4	27
57	Carbon density and distribution of six Chinese temperate forests. <i>Science China Life Sciences</i> , 2010, 53, 831-840.	4.9	34
58	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
59	The plural of anecdote is not data: Rigorously testing a boreal forest chronosequence. <i>Nature Precedings</i> , 2009, . .	0.1	0
60	Carbon concentration variability of 10 Chinese temperate tree species. <i>Forest Ecology and Management</i> , 2009, 258, 722-727.	3.2	98
61	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
62	Rhizospheric and heterotrophic components of soil respiration in six Chinese temperate forests. <i>Global Change Biology</i> , 2007, 13, 123-131.	9.5	101
63	Partitioning soil respiration of temperate forest ecosystems in northeastern China. <i>Acta Ecologica Sinica</i> , 2006, 26, 1640-1646.	1.9	17
64	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
65	Soil respiration in six temperate forests in China. <i>Global Change Biology</i> , 2006, 12, 2103-2114.	9.5	223
66	Nitrogen dynamics of a boreal black spruce wildfire chronosequence. <i>Biogeochemistry</i> , 2006, 81, 1-16.	3.5	51
67	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
68	Spatiotemporal measurement and modeling of stand-level boreal forest soil temperatures. <i>Agricultural and Forest Meteorology</i> , 2005, 131, 27-40.	4.8	54
69	A global relationship between the heterotrophic and autotrophic components of soil respiration?. <i>Global Change Biology</i> , 2004, 10, 1756-1766.	9.5	482
70	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
71	Carbon distribution of a well- and poorly-drained black spruce fire chronosequence. <i>Global Change Biology</i> , 2003, 9, 1066-1079.	9.5	116
72	Soil surface CO <sub>2</sub> flux in a boreal black spruce fire chronosequence. <i>Journal of Geophysical Research</i> , 2003, 108, WFX 5-1.	3.3	68

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73	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
74	Environmental controls on carbon dioxide flux from black spruce coarse woody debris. <i>Oecologia</i> , 2002, 132, 374-381.	2.0	91
75	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
76	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