

Weifeng Wang

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,313
citations

394421

19
h-index

233421

45
g-index

53
all docs

53
docs citations

53
times ranked

3645
citing authors

#	ARTICLE	IF	CITATIONS
1	A drought-induced pervasive increase in tree mortality across Canada's boreal forests. <i>Nature Climate Change</i> , 2011, 1, 467-471.	18.8	653
2	Carbon sequestration by Chinese bamboo forests and their ecological benefits: assessment of potential, problems, and future challenges. <i>Environmental Reviews</i> , 2011, 19, 418-428.	4.5	252
3	Regional drought-induced reduction in the biomass carbon sink of Canada's boreal forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2423-2427.	7.1	225
4	Chinese Grain for Green Program led to highly increased soil organic carbon levels: A meta-analysis. <i>Scientific Reports</i> , 2014, 4, 4460.	3.3	137
5	Relationships between stand growth and structural diversity in spruce-dominated forests in New Brunswick, Canada. <i>Canadian Journal of Forest Research</i> , 2009, 39, 1835-1847.	1.7	128
6	Drought-induced tree mortality: ecological consequences, causes, and modeling. <i>Environmental Reviews</i> , 2012, 20, 109-121.	4.5	94
7	Modelling methane emissions from natural wetlands by development and application of the TRIPLEX-GHG model. <i>Geoscientific Model Development</i> , 2014, 7, 981-999.	3.6	84
8	Nitrogen depositions increase soil respiration and decrease temperature sensitivity in a Moso bamboo forest. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 48-54.	4.8	73
9	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	72
10	A review of the mechanisms and controlling factors of methane dynamics in forest ecosystems. <i>Forest Ecology and Management</i> , 2020, 455, 117702.	3.2	52
11	Direct and Indirect Effects of UV-B Exposure on Litter Decomposition: A Meta-Analysis. <i>PLoS ONE</i> , 2013, 8, e68858.	2.5	45
12	Quantification of soil respiration in forest ecosystems across China. <i>Atmospheric Environment</i> , 2014, 94, 546-551.	4.1	42
13	Soil Depth Determines the Composition and Diversity of Bacterial and Archaeal Communities in a Poplar Plantation. <i>Forests</i> , 2019, 10, 550.	2.1	39
14	Climate warming-induced upward shift of Moso bamboo population on Tianmu Mountain, China. <i>Journal of Mountain Science</i> , 2013, 10, 363-369.	2.0	34
15	The impact of biochar on the activities of soil nutrients acquisition enzymes is potentially controlled by the pyrolysis temperature: A meta-analysis. <i>Geoderma</i> , 2022, 411, 115692.	5.1	29
16	Quantifying the effects of climate change and harvesting on carbon dynamics of boreal aspen and jack pine forests using the TRIPLEX-Management model. <i>Forest Ecology and Management</i> , 2012, 281, 152-162.	3.2	26
17	Development of TRIPLEX-Management model for simulating the response of forest growth to pre-commercial thinning. <i>Ecological Modelling</i> , 2011, 222, 2249-2261.	2.5	24
18	Cellulose dominantly affects soil fauna in the decomposition of forest litter: A meta-analysis. <i>Geoderma</i> , 2020, 378, 114620.	5.1	23

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19	Water use efficiency in response to interannual variations in flux-based photosynthetic onset in temperate deciduous broadleaf forests. <i>Ecological Indicators</i> , 2017, 79, 122-127.	6.3	22
20	Comparison of Product Carbon Footprint Protocols: Case Study on Medium-Density Fiberboard in China. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2060.	2.6	20
21	Quantifying the effects of harvesting on carbon fluxes and stocks in northern temperate forests. <i>Biogeosciences</i> , 2014, 11, 6667-6682.	3.3	18
22	Modeling the potential distribution of <i>Zelkova schneideriana</i> under different human activity intensities and climate change patterns in China. <i>Global Ecology and Conservation</i> , 2020, 21, e00840.	2.1	18
23	Modeling the effects of varied forest management regimes on carbon dynamics in jack pine stands under climate change. <i>Canadian Journal of Forest Research</i> , 2013, 43, 469-479.	1.7	17
24	Methane emissions may be driven by hydrogenotrophic methanogens inhabiting the stem tissues of poplar. <i>New Phytologist</i> , 2022, 233, 182-193.	7.3	17
25	Using machine learning to synthesize spatiotemporal data for modelling DBH-height and DBH-height-age relationships in boreal forests. <i>Forest Ecology and Management</i> , 2020, 466, 118104.	3.2	16
26	Potential habitat and productivity loss of <i>Populus deltoides</i> industrial forest plantations due to global warming. <i>Forest Ecology and Management</i> , 2021, 496, 119474.	3.2	14
27	Identifying priority conservation areas based on ecosystem services change driven by Natural Forest Protection Project in Qinghai province, China. <i>Journal of Cleaner Production</i> , 2022, 362, 132453.	9.3	14
28	Analysis of vegetation dynamics and climatic variability impacts on greenness across Canada using remotely sensed data from 2000 to 2009. <i>Journal of Applied Remote Sensing</i> , 2014, 8, 083666.	1.3	11
29	Correcting the overestimate of forest biomass carbon on the national scale. <i>Methods in Ecology and Evolution</i> , 2016, 7, 447-455.	5.2	11
30	Predicting the Potential Habitat of Three Endangered Species of <i>Carpinus</i> Genus under Climate Change and Human Activity. <i>Forests</i> , 2021, 12, 1216.	2.1	11
31	Improving litterfall production prediction in China under variable environmental conditions using machine learning algorithms. <i>Journal of Environmental Management</i> , 2022, 306, 114515.	7.8	11
32	Detecting One-Hundred-Year Environmental Changes in Western China Using Seven-Year Repeat Photography. <i>PLoS ONE</i> , 2011, 6, e25008.	2.5	10
33	Modeling surface energy fluxes and thermal dynamics of a seasonally ice-covered hydroelectric reservoir. <i>Science of the Total Environment</i> , 2016, 550, 793-805.	8.0	10
34	Biochar mitigates dissolved organic carbon loss but does not affect dissolved organic nitrogen leaching loss caused by nitrogen deposition in Moso bamboo plantations. <i>Global Ecology and Conservation</i> , 2018, 16, e00494.	2.1	9
35	Modelling CO ₂ emissions from water surface of a boreal hydroelectric reservoir. <i>Science of the Total Environment</i> , 2018, 612, 392-404.	8.0	8
36	Dynamic baselines depending on REDD+ payments: A comparative analysis based on a system dynamics approach. <i>Ecological Indicators</i> , 2022, 140, 108983.	6.3	7

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37	Concurrent and lagged effects of spring greening on seasonal carbon gain and water loss across the Northern Hemisphere. <i>International Journal of Biometeorology</i> , 2020, 64, 1343-1354.	3.0	6
38	The Effect of the Conversion from Natural Broadleaved Forests into Chinese fir (<i>Cunninghamia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 Forests, 2022, 13, 158.	2.1	6
39	MODELING INDIVIDUAL TREE MORTALITY RATES USING MARGINAL AND RANDOM EFFECTS REGRESSION MODELS. <i>Natural Resource Modelling</i> , 2013, 26, 131-153.	2.0	4
40	Application of Cloud Model to Evaluation of Forest Soil Fertility: A Case in Chinese Fir Plantations in Southern China. <i>Sustainability</i> , 2019, 11, 6286.	3.2	4
41	Composition and environmental interpretation of the communities of <i>Sassafras tzumu</i> , a protected species, at Zhejiang province in eastern China. <i>Global Ecology and Conservation</i> , 2020, 24, e01218.	2.1	4
42	Effects of Soil Moisture and Temperature on Microbial Regulation of Methane Fluxes in a Poplar Plantation. <i>Forests</i> , 2021, 12, 407.	2.1	4
43	Predicting suitable habitats of ginkgo biloba L. fruit forests in China. <i>Climate Risk Management</i> , 2021, 34, 100364.	3.2	3
44	Process-Based Models: A Synthesis of Models and Applications to Address Environmental and Management Issues. <i>Applied Ecology and Environmental Management</i> , 2015, , 223-266.	0.1	3
45	Growth reduction and alteration of nonstructural carbohydrate (NSC) allocation in a sympodial bamboo (<i>Indocalamus decorus</i>) under atmospheric O ₃ enrichment. <i>Science of the Total Environment</i> , 2022, 826, 154096.	8.0	3