Shijie Han

List of Publications by Year
in descending order

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97 papers	3,178 citations	201385 27 h-index	182168 51 g-index
98 all docs	98 docs citations	98 times ranked	3980 citing authors

#	Article	IF	Citations
1	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	2.4	646
2	Carbon pools in Chinaâ€™s terrestrial ecosystems: New estimates based on an intensive field survey. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4021-4026.	3.3	466
3	Global parameterization and validation of a twoâ€leaf light use efficiency model for predicting gross primary production across FLUXNET sites. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1045-1072.	1.3	93
4	Climate and litter C/N ratio constrain soil organic carbon accumulation. National Science Review, 2019, 6, 746-757.	4.6	87
5	Multiyear precipitation reduction strongly decreases carbon uptake over northern China. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 881-896.	1.3	79
6	Soil Nematode Responses to Increases in Nitrogen Deposition and Precipitation in a Temperate Forest. PLoS ONE, 2013, 8, e82468.	1.1	75
7	Seasonal dynamics of water use efficiency of typical forest and grassland ecosystems in China. Journal of Forest Research, 2014, 19, 70-76.	0.7	55
8	Retention of deposited ammonium and nitrate and its impact on the global forest carbon sink. Nature Communications, 2022, 13, 880.	5.8	55
9	Comparison of three models to estimate evapotranspiration for a temperate mixed forest. Hydrological Processes, 2008, 22, 3431-3443.	1.1	54
10	How recent climate change influences water use efficiency in East Asia. Theoretical and Applied Climatology, 2014, 116, 359-370.	1.3	53
11	Planning the priority protected areas of endangered orchid species in northeastern China. Biodiversity and Conservation, 2014, 23, 1395-1409.	1.2	45
12	Responses of Fine Roots and Soil N Availability to Short-Term Nitrogen Fertilization in a Broad-Leaved Korean Pine Mixed Forest in Northeastern China. PLoS ONE, 2012, 7, e31042.	1.1	42
13	Changes in soil microbial biomass carbon and enzyme activities under elevated CO2 affect fine root decomposition processes in a Mongolian oak ecosystem. Soil Biology and Biochemistry, 2010, 42, 1101-1107.	4.2	40
14	Interactive effect of nitrogen addition and throughfall reduction decreases soil aggregate stability through reducing biological binding agents. Forest Ecology and Management, 2019, 445, 13-19.	1.4	39
15	Recent rising temperatures drive younger and southern Korean pine growth decline. Science of the Total Environment, 2019, 649, 1105-1116.	3.9	39
16	Mapping forest type and age in China's plantations. Science of the Total Environment, 2020, 744, 140790.	3.9	37
17	Pulse Increase of Soil N2O Emission in Response to N Addition in a Temperate Forest on Mt Changbai, Northeast China. PLoS ONE, 2014, 9, e102765.	1.1	34
18	Effects of tea saponin on glucan conversion and bonding behaviour of cellulolytic enzymes during enzymatic hydrolysis of corncob residue with high lignin content. Biotechnology for Biofuels, 2013, 6, 161.	6.2	33

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19	Role and Variation of the Amount and Composition of Glomalin in Soil Properties in Farmland and Adjacent Plantations with Reference to a Primary Forest in North-Eastern China. PLoS ONE, 2015, 10, e0139623.	1.1	33
20	Sequestration of atmospheric CO2 in boreal forest carbon pools in northeastern China: Effects of nitrogen deposition. Agricultural and Forest Meteorology, 2018, 248, 70-81.	1.9	33
21	Effects of nitrogen additions on nitrogen resorption and use efficiencies and foliar litterfall of six tree species in a mixed birch and poplar forest, northeastern China. Canadian Journal of Forest Research, 2010, 40, 2256-2261.	0.8	32
22	Modelâ€based conservation planning of the genetic diversity of Phellodendron amurense Rupr due to climate change. Ecology and Evolution, 2014, 4, 2884-2900.	0.8	32
23	Uptake Patterns of Glycine, Ammonium, and Nitrate Differ Among Four Common Tree Species of Northeast China. Frontiers in Plant Science, 2019, 10, 799.	1.7	32
24	Site-level modelâ€“data synthesis of terrestrial carbon fluxes in the CarboEastAsia eddy-covariance observation network: toward future modeling efforts. Journal of Forest Research, 2013, 18, 13-20.	0.7	31
25	Satellite-based estimation of evapotranspiration of an old-growth temperate mixed forest. Agricultural and Forest Meteorology, 2009, 149, 976-984.	1.9	30
26	Effects of mowing and nitrogen addition on the ecosystem C and N pools in a temperate steppe: A case study from northern China. Catena, 2020, 185, 104332.	2.2	30
27	Long-time precipitation reduction and nitrogen deposition increase alter soil nitrogen dynamic by influencing soil bacterial communities and functional groups. Pedosphere, 2020, 30, 363-377.	2.1	30
28	Energy budget above a temperate mixed forest in northeastern China. Hydrological Processes, 2007, 21, 2425-2434.	1.1	29
29	A modified ingrowth core method for measuring fine root production, mortality and decomposition in forests. Tree Physiology, 2013, 33, 18-25.	1.4	29
30	Nitrogen addition, drought and mixture effects on litter decomposition and nitrogen immobilization in a temperate forest. Plant and Soil, 2017, 416, 165-179.	1.8	29
31	Patterns and controlling factors of plant nitrogen and phosphorus stoichiometry across Chinaâ€™s forests. Biogeochemistry, 2019, 143, 191-205.	1.7	27
32	Fine root growth and contribution to soil carbon in a mixed mature Pinus koraiensis forest. Plant and Soil, 2016, 400, 275-284.	1.8	26
33	Effects of precipitation change on fine root morphology and dynamics at a global scale: a meta-analysis. Canadian Journal of Soil Science, 2019, 99, 1-11.	0.5	26
34	Drought timing and primary productivity in a semiarid grassland. Land Degradation and Development, 2020, 31, 2185-2195.	1.8	26
35	Effects of warming on soil respiration during the non-growing seasons in a semiarid temperate steppe. Journal of Plant Ecology, 2020, 13, 288-294.	1.2	25
36	Uncertainty analysis of modeled carbon fluxes for a broad-leaved Korean pine mixed forest using a process-based ecosystem model. Journal of Forest Research, 2012, 17, 268-282.	0.7	24

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37	Close relationship between spectral vegetation indices and V_{cmax} in deciduous and mixed forests. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 23279.	0.8	24
38	Rainfall reduction amplifies the stimulatory effect of nitrogen addition on N2O emissions from a temperate forest soil. Scientific Reports, 2017, 7, 43329.	1.6	24
39	Seasonal and annual variation of CO2 flux above a broad-leaved Korean pine mixed forest. Science in China Series D: Earth Sciences, 2006, 49, 63-73.	0.9	23
40	Foliar decomposition in a broadleaf-mixed Korean pine (Pinus koraiensis Sieb. Et Zucc) plantation forest: the impact of initial litter quality and the decomposition of three kinds of organic matter fraction on mass loss and nutrient release rates. Plant and Soil, 2007, 295, 151-167.	1.8	23
41	Direct and indirect effects of climatic variations on the interannual variability in net ecosystem exchange across terrestrial ecosystems. Tellus, Series B: Chemical and Physical Meteorology, 2022, 68, 30575.	0.8	21
42	Spatial variations in evapotranspiration over East Asian forest sites. I. Evapotranspiration and decoupling coefficient. Hydrological Research Letters, 2011, 5, 83-87.	0.3	20
43	Nitrogen deposition may enhance soil carbon storage via change of soil respiration dynamic during a spring freeze-thaw cycle period. Scientific Reports, 2016, 6, 29134.	1.6	19
44	Organic carbon and nitrogen dynamics in different soil fractions between broad-leaved Korean pine forests and aspenâ€“birch forests in northeastern China. Journal of Soils and Sediments, 2017, 17, 2257-2273.	1.5	19
45	Direct effects of nitrogen addition on seed germination of eight semiâ€arid grassland species. Ecology and Evolution, 2020, 10, 8793-8800.	0.8	19
46	Elevated CO2, warming, N addition, and increased precipitation affect different aspects of the arbuscular mycorrhizal fungal community. Science of the Total Environment, 2022, 806, 150522.	3.9	19
47	Construction of a framework map for Pinus koraiensis Sieb. et Zucc. using SRAP, SSR and ISSR markers. Trees - Structure and Function, 2010, 24, 685-693.	0.9	18
48	Non-additive effects of mixing different sources of dissolved organic matter on its biodegradation. Soil Biology and Biochemistry, 2014, 78, 160-169.	4.2	18
49	Needle Î´13C and mobile carbohydrates in Pinus koraiensis in relation to decreased temperature and increased moisture along an elevational gradient in NE China. Trees - Structure and Function, 2013, 27, 389-399.	0.9	17
50	Annual soil CO2 efflux in a cold temperate forest in northeastern China: effects of winter snowpack and artificial nitrogen deposition. Scientific Reports, 2016, 6, 18957.	1.6	17
51	Differences in tree and shrub growth responses to climate change in a boreal forest in China. Dendrochronologia, 2020, 63, 125744.	1.0	17
52	Radial Growth Response of Larix gmelinii to Climate along a Latitudinal Gradient in the Greater Khingan Mountains, Northeastern China. Forests, 2016, 7, 295.	0.9	16
53	Contrasting climate-growth relationship between Larix gmelinii and Pinus sylvestris var. mongolica along a latitudinal gradient in Daxingâ€™an Mountains, China. Dendrochronologia, 2019, 58, 125645.	1.0	16
54	Litterfall and litter chemistry change over time in an old-growth temperate forest, northeastern China. Annals of Forest Science, 2010, 67, 206-206.	0.8	15

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55	Developing conservation strategies for Pinus koraiensis and Eleutherococcus senticosus by using model-based geographic distributions. Journal of Forestry Research, 2016, 27, 389-400.	1.7	15
56	Nitrogen addition impacts on the emissions of greenhouse gases depending on the forest type: a case study in Changbai Mountain, Northeast China. Journal of Soils and Sediments, 2017, 17, 23-34.	1.5	15
57	Effects of winter snowpack and nitrogen addition on the soil microbial community in a temperate forest in northeastern China. Ecological Indicators, 2018, 93, 602-611.	2.6	15
58	Variations in the natural 13C and 15N abundance of plants and soils under long-term N addition and precipitation reduction: interpretation of C and N dynamics. Forest Ecosystems, 2020, 7, .	1.3	14
59	Incipient changes of lignin and substituted fatty acids under N addition in a Chinese forest soil. Organic Geochemistry, 2015, 79, 14-20.	0.9	13
60	Effects and mechanisms of land-types conversion on greenhouse gas emissions in the Yellow River floodplain wetland. Science of the Total Environment, 2022, 813, 152406.	3.9	13
61	Uncertainty analysis in data processing on the estimation of net carbon exchanges at different forest ecosystems in China. Journal of Forest Research, 2012, 17, 312-322.	0.7	12
62	Quantitative estimation of stochastic and deterministic processes for soil prokaryotic community assembly in the Yellow River floodplain. European Journal of Soil Science, 2021, 72, 1462-1477.	1.8	11
63	Land-use type strongly affects soil microbial community assembly process and inter-kingdom co-occurrence pattern in a floodplain ecosystem. Applied Soil Ecology, 2022, 179, 104574.	2.1	11
64	Photosynthetic characteristics of dominant tree species and canopy in the broadleaved Korean pine forest of Changbai Mountains. Science in China Series D: Earth Sciences, 2006, 49, 89-98.	0.9	10
65	Different spatial patterns of nitrogen and phosphorus resorption efficiencies in Chinaâ€™s forests. Scientific Reports, 2017, 7, 10584.	1.6	10
66	Effects of inundation and stranding on leaf litter decomposition and chemical transformation. Aquatic Sciences, 2018, 80, 1.	0.6	10
67	Temperature-Dominated Driving Mechanisms of the Plant Diversity in Temperate Forests, Northeast China. Forests, 2020, 11, 227.	0.9	10
68	Soil Microbial Community Based on PLFA Profiles in an Age Sequence of Pomegranate Plantation in the Middle Yellow River Floodplain. Diversity, 2021, 13, 408.	0.7	10
69	Narrowband Bio-Indicator Monitoring of Temperate Forest Carbon Fluxes in Northeastern China. Remote Sensing, 2014, 6, 8986-9013.	1.8	9
70	Throughfall reduction diminished the enhancing effect of N addition on soil N leaching loss in an old, temperate forest. Environmental Pollution, 2020, 261, 114090.	3.7	9
71	Indirect effects of precipitation variation on the decomposition process of Mongolian oak (Quercus) Tj ETQq1 1 0.784314 rgBT /Over Universities, 2007, 2, 417-423.	0.2	8
72	Preservation of broadleaf species in Korean pine (Pinus koraiensis) plantations affects soil properties, carbon storage, biomass allocation, and available nitrogen storage. Canadian Journal of Forest Research, 2008, 38, 2227-2235.	0.8	8

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73	Carbon and nitrogen turnover in response to warming and nitrogen addition during early stages of forest litter decompositionâ€"an incubation experiment. Journal of Soils and Sediments, 2013, 13, 312-324.	1.5	8
74	Reconstruction of Juneâ€"July Temperatures Based on a 233 Year Tree-Ring of Picea jezoensis var. microsperma. Forests, 2019, 10, 416.	0.9	7
75	Long-term nitrogen addition further increased carbon sequestration in a boreal forest. European Journal of Forest Research, 2021, 140, 1113-1126.	1.1	7
76	Synergistic effects of nitrogen amendments and ethylene on atmospheric methane uptake under a temperate old-growth forest. Advances in Atmospheric Sciences, 2011, 28, 843-854.	1.9	6
77	Does the accelerated soil N cycling sustain N demand of Quercus mongolica after decade-long elevated CO2 treatment?. Biogeochemistry, 2018, 139, 197-213.	1.7	6
78	Leaf and twig litter decomposition of main species in different forests along the north slope of Changbai Mountain, northeast China. Frontiers of Forestry in China: Selected Publications From Chinese Universities, 2007, 2, 47-54.	0.2	5
79	Comparative study of lignin stabilizing mechanisms in soil aggregates at virgin mixed broadleaf-pine forest and secondary broadleaf forest at Changbai Mountain Nature Reserve, Northeast China. Ecological Indicators, 2020, 117, 106665.	2.6	5
80	Variation in soil lignin protection mechanisms in five successional gradients of mixed broadleafâ€"pine forests. Soil Science Society of America Journal, 2020, 84, 232-250.	1.2	5
81	Beneficial effects of warming on temperate tree carbon storage depend on precipitation and mycorrhizal types. Science of the Total Environment, 2022, 819, 153086.	3.9	5
82	Spatial Variation and Temporal Instability in the Growth/Climate Relationship of White Birch (Betula) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	4
83	A 168-year temperature recording based on tree rings and latitude differences in temperature changes in northeast China. International Journal of Biometeorology, 2021, 65, 1859-1870.	1.3	4
84	Spatial variations in evapotranspiration over East Asian forest sites. II. Surface conductance and aerodynamic conductance. Hydrological Research Letters, 2011, 5, 88-92.	0.3	3
85	Changes in CH4 production during different stages of litter decomposition under inundation and N addition. Journal of Soils and Sediments, 2017, 17, 949-959.	1.5	3
86	Tree ring widthâ€based Januaryâ€"March mean minimum temperature reconstruction from <scp>Larix gmelinii</scp> in the Greater Khingan Mountains, China since AD 1765. International Journal of Climatology, 2021, 41, E842.	1.5	3
87	Climatic controls of Pinus pumila radial growth along an altitude gradient. New Forests, 0, , 1.	0.7	3
88	Response of needle dark respiration of Pinus koraiensis and Pinus sylvestriformis to elevated CO2 concentrations for four growing seasonsâ€™ exposure. Science in China Series D: Earth Sciences, 2007, 50, 613-619.	0.9	2
89	The effect of soil moisture on the response by fungi and bacteria to nitrogen additions for N2O production. Journal of Forestry Research, 2021, 32, 2037-2045.	1.7	2
90	Exploring slope spatial heterogeneity by nitrogen transfer and arbuscular mycorrhizal community. Journal of Soils and Sediments, 2020, 20, 3569-3579.	1.5	2

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91	Quantitative evidence of underestimated nitrogen rhizodeposition using 15N split-root labeling during spring wheat developmental period. Catena, 2021, 207, 105618.	2.2	2
92	The Right-Skewed Distribution of Fine-Root Size in Three Temperate Forests in Northeastern China. Frontiers in Plant Science, 2021, 12, 772463.	1.7	2
93	Litter quality mediated the effect of nitrogen addition and precipitation reduction on the release and immobilization of plant litter nitrogen and phosphorus. Canadian Journal of Soil Science, 2022, 102, 263-275.	0.5	1
94	Resistance and Resilience of Nine Plant Species to Drought in Inner Mongolia Temperate Grasslands of Northern China. Applied Sciences (Switzerland), 2022, 12, 4967.	1.3	1
95	Effects of elevated CO2 concentrations on soil microbial respiration and root/rhizosphere respiration in forest soils. Frontiers of Forestry in China: Selected Publications From Chinese Universities, 2008, 3, 131-138.	0.2	0
96	Turbulent exchange of CO2 over a broadleaf-Korean pine forest in Changbai Mountain, northeast China. Frontiers of Forestry in China: Selected Publications From Chinese Universities, 2008, 3, 401-406.	0.2	0
97	Calibration and Assessment of Burned Area Simulation Capability of the LPJ-WHyMe Model in Northeast China. Forests, 2019, 10, 992.	0.9	0